

LYFTDATA PRODUCT DOCUMENTATION

DSL Inputs Reference

Input connector and source reference pages from the generated DSL corpus.

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Contents

1. Azure Blob
2. BigQuery
3. ClickHouse
4. Echo
5. Exec
6. Facebook Graph Poll
7. File Store
8. Log Files
9. FTP
10. Google Cloud Storage
11. HTTP Poll
12. HTTP Server
13. Internal Messages
14. Journald
15. Kafka
16. Microsoft Graph
17. MongoDB
18. MQTT
19. MySQL
20. OpenTelemetry
21. PostgreSQL
22. S3
23. ODBC SQL
24. SQL Server
25. Trigger
26. Web Dav Store
27. WebSocket
28. Windows Event Log
29. Worker Channel
30. Worker KV

Azure Blob

Reference for the Azure Blob component in LyftData's DSL

Source: `reference/dsl/inputs/azure-blob.md`

Azure Blob (`azure-blob`)

Retrieve (or list) Microsoft Azure Storage blobs (Block Storage).

Block Store Cloud Enterprise edition binary json raw

Minimal example

```
input:
azure-blob: container-name: ~ storage-account: ~ storage-master-key: ~
```

JSON

```
{
  "input": { "azure-blob": { "container-name": null, "storage-account": null, "storage-master-key": null } } }
```

Contents

- [Minimal example](#)
- [Fields](#)
- [Authentication](#)
- [Behavior](#)
- [Filtering](#)
- [Location](#)
- [Object Properties](#)
- [Reliability](#)
- [Trigger](#)
- [Schema](#)

Fields

Field	Type	Required	Description
<code>preprocessors</code>	<code>[Input Preprocessor[]]</code> (#input-preprocessor-options)		Preprocessors (process downloaded data before making it available to the job) these processors will be run in the order they are specified. Allowed values: <code>extension</code> , <code>gzip</code> , <code>parquet</code> , <code>base64</code>

Authentication

Authentication

Field	Type	Required	Description
<code>storage-account</code>	<code>string</code>	✓	The Storage Account Name to be used (credential).
<code>storage-master-key</code>	<code>string</code>	✓	The Storage Master Key to be used (credential).

Behavior

Behavior

Field	Type	Required	Description
<code>mode</code>	Block Input Mode		Input behavior: use <code>list-and-download</code> , <code>list</code> , or <code>download</code> depending on whether you want to enumerate blobs, fetch contents, or download specific names directly. Allowed values: <code>list-and-download-objects</code> , <code>list-objects</code> , <code>download-objects</code>
<code>timestamp-mode</code>	Timestamp Strategy		Derive a timestamp for this blob for filtering purposes based on the selected strategy (e.g., blob creation time vs. last modification). Allowed values: <code>none</code> , <code>last-modified</code> , <code>object-name-pattern</code>
<code>ignore-linebreaks</code> ✓	<code>boolean</code> (<code>bool</code>)		Treat the entire blob as a single event. When <code>false</code> , blobs are split on newlines unless <code>json=true</code> instructs the runtime to parse JSON arrays. Default: <code>false</code>
<code>payload-mode</code> ✓	Payload Mode		Select how payloads should be interpreted (<code>auto</code> , <code>json</code> , <code>raw</code> , <code>binary</code>). Allowed values: <code>auto</code> , <code>json</code> , <code>raw</code> , <code>binary</code>

Filtering

Filtering

Field	Type	Required	Description
<code>maximum-age</code>	Maximum Age		Ignore blobs older than the provided duration (e.g., <code>5m</code> , <code>1h30m</code>). Leave empty to process all visible blobs.
<code>include-regex</code>	<code>regex[]</code> (<code>string</code>)		Include blobs matching the specified regular expressions. Examples: <code>\d+[A-Z]*</code>
<code>exclude-regex</code>	<code>regex[]</code> (<code>string</code>)		Exclude blobs matching the specified regular expressions. Examples: <code>\d+[A-Z]*</code>

Location

Location

Field	Type	Required	Description
<code>container-name</code>	<code>string</code>	<input checked="" type="checkbox"/>	The storage service container for created blobs.
<code>blob-names</code>	<code>string[]</code>		Blob names or prefixes to target. Leave empty to consider every blob exposed by the selected mode—take care with large containers.

Object Properties

Object Properties

Field	Type	Required	Description
<code>blob-name-field</code>	<code>field</code> (<code>string</code>)		The field that a blob name from an operation should be stored in. Examples: <code>data_field</code>
<code>creation-time-field</code>	<code>field</code> (<code>string</code>)		The field that the blob creation time should be stored in. Examples: <code>data_field</code>
<code>last-modified-field</code>	<code>field</code> (<code>string</code>)		The field that the blob last modified time should be stored in. Examples: <code>data_field</code>
<code>content-length-field</code>	<code>field</code> (<code>string</code>)		The field that the blob content length information should be stored in. Examples: <code>data_field</code>
<code>content-type-field</code>	<code>field</code> (<code>string</code>)		The field that the blob content type information should be stored in. Examples: <code>data_field</code>
<code>content-md5-field</code>	<code>field</code> (<code>string</code>)		The field that the blob content md5 should be stored in. Examples: <code>data_field</code>
<code>etag-field</code>	<code>field</code> (<code>string</code>)		The field that the object ETag should be stored in. Examples: <code>data_field</code>
<code>data-field</code>	<code>field</code> (<code>string</code>)		A field that the blob data should be nested in. Examples: <code>data_field</code>

Reliability

Reliability

Field	Type	Required	Description
<code>fingerprinting</code> ✓	<code>boolean</code> (<code>bool</code>)		Enable object fingerprinting so a blob is downloaded only once, even across restarts. Default: <code>false</code>
<code>maximum-fingerprint-age</code>	<code>duration</code> (<code>string</code>)		How long to retain stored fingerprints before they are eligible for cleanup. Default: <code>30 days</code>
<code>retry</code>	<code>Retry</code>		How to retry failed operations (backoff, max attempts, etc.).

Trigger

Trigger

Field	Type	Required	Description
<code>trigger</code>	<code>Trigger</code>		Run on the provided cadence; if omitted, this input runs exactly once. Allowed values: <code>message</code> , <code>cron</code> , <code>interval</code>

Schema

- [Timestamp Strategy Options](#)
- [Trigger - Cron - Window - Window Start Options](#)
- [Trigger - Interval - Window - Window Start Options](#)
- [Trigger Options](#)
- [Maximum Age Fields](#)
- [Retry Fields](#)
- [Trigger - Message Fields](#)
- [Trigger - Cron - Window - Window Start - Start Time Fields](#)
- [Trigger - Cron - Window Fields](#)
- [Trigger - Cron Fields](#)
- [Trigger - Interval - Window - Window Start - Start Time Fields](#)
- [Trigger - Interval - Window Fields](#)
- [Trigger - Interval Fields](#)
- [Input Preprocessor Options](#)
- [Block Input Mode Options](#)
- [Payload Mode Options](#)
- [Trigger - Message - Filter Kind Options](#)
- [Trigger - Message - Filter Source Options](#)
- [Trigger - Message - Filter Type Options](#)

Timestamp Strategy Options

Option	Name	Type	Description
<code>none</code>	None	<code>map</code>	The default mode, do not filter based on timestamps.
<code>last-modified</code>	Last Modified	<code>map</code>	Filter object on the last-modified timestamp reported by the service.
<code>object-name-pattern</code>	Object Name Pattern	<code>string</code>	Filter blobs on the timestamp derived from the object name for example: <code>relevant-name-pattern: =(?P[\\d]{4,4})-(?P<m>[\\d]{2,2})-(?P<d>[\\d]{2,2})/</code> .

Trigger - Cron - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	<code>object</code>	
<code>tracked</code>	Tracked	<code>string</code>	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	object	
<code>tracked</code>	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger Options

Option	Name	Type	Description
<code>message</code>	Message	object	
<code>cron</code>	Cron	object	
<code>interval</code>	Interval	object	

Maximum Age Fields

Field	Type	Required	Description
<code>value</code>	<code>duration (string)</code>	<input checked="" type="checkbox"/>	

Retry Fields

Field	Type	Required	Description
<code>timeout</code>	<code>time-interval (string)</code>	<input checked="" type="checkbox"/>	timeout (e.g. 500ms, 2s etc. - default is 30). Examples: <code>500ms</code> , <code>2h</code>
<code>retries</code>	<code>number (integer)</code>		number of retries. Examples: <code>42</code> , <code>1.2e-10</code>

Trigger - Message Fields

Field	Type	Required	Description
<code>limit</code> ✓	<code>number (integer)</code>		The number of times to run the input. Examples: <code>42</code> , <code>1.2e-10</code>
<code>filter-kind</code>	<code>Filter Kind</code>		Specifies whether the message originated from the "system" or by the "user". Allowed values: <code>system</code> , <code>user</code> , <code>runtime-artifact-fetch</code> , <code>runtime-artifact-fetch-error</code> , <code>runtime-artifact-clear</code> , <code>runtime-artifact-clear-ack</code> , <code>runtime-artifact-fetch-reply</code> , <code>runtime-artifact-update</code> , <code>runtime-artifact-update-ack</code>
<code>filter-source</code>	<code>[Filter Source[]] (#trigger-message-filter-source-options)</code>		Specifies what process generated the message. Was it a "server", "worker" or "job"? Allowed values: <code>job</code> , <code>worker</code> , <code>server</code>
<code>filter-worker</code>	<code>string</code>		Specifies what worker to select.
<code>filter-job</code>	<code>string</code>		Specifies the name of the job that the message came from.

<code>filter-type</code>	<code>[Filter Type[]]</code> (#trigger-message-filter-type-options)		Specifies that particular types of message ought to match. Allowed values: <code>worker-licensed</code> , <code>worker-unlicensed</code> , <code>variable</code> , <code>variable-deleted</code> , <code>begin-shutting-down-job</code> , <code>begin-shutting-down-server</code> , <code>begin-shutting-down-worker</code> , <code>broadcast-job-thread-state</code> , <code>broadcast-server-thread-state</code> , <code>broadcast-worker-thread-state</code> , ...
<code>filter-tag</code>	<code>string</code>		Specifies that messages matched ought to carry a tag with a particular value. This only matches against user-generated messages.

Trigger - Cron - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (<code>string</code>)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (<code>string</code>)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Cron - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (<code>string</code>)	✓	Window size.
<code>offset</code>	<code>duration</code> (<code>string</code>)		Window offset. Default: <code>0s</code>
<code>start</code>	<code>Window Start</code>		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Cron Fields

Field	Type	Required	Description
<code>cron</code>	<code>cron-expression</code> (<code>string</code>)	✓	The Cron pattern.
<code>immediate</code> ✓	<code>boolean</code> (<code>bool</code>)		Run as soon as invoked, instead of waiting for the specified cron interval. Default: <code>false</code>
<code>random-offset</code>	<code>duration</code> (<code>string</code>)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	<code>Window</code>		Optional window definition when the schedule should only read a bounded range.

Trigger - Interval - Window - Window Start - Start Time Fields

Field	Type	Required	Description
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<code>start-time</code>	<code>time-format</code> (string)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (string)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (string)	✓	Window size.
<code>offset</code>	<code>duration</code> (string)		Window offset. Default: <code>0s</code>
<code>start</code>	Window Start		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Interval Fields

Field	Type	Required	Description
<code>duration</code>	<code>duration</code> (string)	✓	Duration to wait between events.
<code>random-offset</code>	<code>duration</code> (string)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	Window		Optional window definition when the interval should only cover a bounded range.

Input Preprocessor Options

Value	Name	Description
<code>extension</code>	<code>extension</code>	Preprocess the object or blob based on the extension of the object or blob name (.gz, .parquet)
<code>gzip</code>	<code>gzip</code>	UnGzip the received data
<code>parquet</code>	<code>parquet</code>	Extract the received data as JSON rows from a parquet file
<code>base64</code>	<code>base64</code>	Encode the binary data as base64

Block Input Mode Options

Value	Name	Description
<code>list-and-download-objects</code>	<code>list-and-download-objects</code>	List Objects and Download
<code>list-objects</code>	<code>list-objects</code>	List Objects

<code>download-objects</code>	download-objects	Download Given Objects
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Payload Mode Options

Value	Name	Description
<code>auto</code>	auto	Auto
<code>json</code>	json	Json
<code>raw</code>	raw	Raw
<code>binary</code>	binary	Binary

Trigger - Message - Filter Kind Options

Value	Name	Description
<code>system</code>	system	System
<code>user</code>	user	User
<code>runtime-artifact-fetch</code>	runtime-artifact-fetch	Runtime Artifact Fetch
<code>runtime-artifact-fetch-error</code>	runtime-artifact-fetch-error	Runtime Artifact Fetch Error
<code>runtime-artifact-clear</code>	runtime-artifact-clear	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch-reply</code>	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
<code>runtime-artifact-update</code>	runtime-artifact-update	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	runtime-artifact-update-ack	Runtime Artifact Update Ack

Trigger - Message - Filter Source Options

Value	Name	Description
<code>job</code>	job	Job
<code>worker</code>	worker	Worker
<code>server</code>	server	Server

Trigger - Message - Filter Type Options

Value	Name	Description
<code>worker-licensed</code>	worker-licensed	Worker Licensed
<code>worker-unlicensed</code>	worker-unlicensed	Worker Unlicensed
<code>variable</code>	variable	Variable

variable-deleted	variable-deleted	Variable Deleted
begin-shutting-down-job	begin-shutting-down-job	Begin Shutting Down Job
begin-shutting-down-server	begin-shutting-down-server	Begin Shutting Down Server
begin-shutting-down-worker	begin-shutting-down-worker	Begin Shutting Down Worker
broadcast-job-thread-state	broadcast-job-thread-state	Broadcast Job Thread State
broadcast-server-thread-state	broadcast-server-thread-state	Broadcast Server Thread State
broadcast-worker-thread-state	broadcast-worker-thread-state	Broadcast Worker Thread State
check-job-report-time	check-job-report-time	Check Job Report Time
check-worker-report-time	check-worker-report-time	Check Worker Report Time
de-register-job-thread-dependency	de-register-job-thread-dependency	De Register Job Thread Dependency
de-register-server-thread-dependency	de-register-server-thread-dependency	De Register Server Thread Dependency
de-register-worker-thread-dependency	de-register-worker-thread-dependency	De Register Worker Thread Dependency
deployed-job-active	deployed-job-active	Deployed Job Active
deployed-job-removed	deployed-job-removed	Deployed Job Removed
deployed-job-should-be-running	deployed-job-should-be-running	Deployed Job Should Be Running
deployment-phase	deployment-phase	Deployment Phase
heart-beat	heart-beat	Heart Beat
initialise-internal-state	initialise-internal-state	Initialise Internal State
initialise-job-states	initialise-job-states	Initialise Job States
job-batch-end	job-batch-end	Job Batch End
job-backlog-update	job-backlog-update	Job Backlog Update
job-checkpoint-update	job-checkpoint-update	Job Checkpoint Update
job-deploy-ready	job-deploy-ready	Job Deploy Ready
job-deployed	job-deployed	Job Deployed
job-document-end	job-document-end	Job Document End
job-document-start	job-document-start	Job Document Start
job-errors	job-errors	Job Errors
job-execution-anomaly	job-execution-anomaly	Job Execution Anomaly
job-execution-status	job-execution-status	Job Execution Status
job-emit-custom	job-emit-custom	Job Emit Custom

<code>job-finished</code>	job-finished	Job Finished
<code>job-idle</code>	job-idle	Job Idle
<code>job-initiated</code>	job-initiated	Job Initiated
<code>job-is-processing</code>	job-is-processing	Job Is Processing
<code>job-logs</code>	job-logs	Job Logs
<code>job-metrics</code>	job-metrics	Job Metrics
<code>job-notifications</code>	job-notifications	Job Notifications
<code>job-removing</code>	job-removing	Job Removing
<code>job-removed</code>	job-removed	Job Removed
<code>job-remove-failed</code>	job-remove-failed	Job Remove Failed
<code>job-remove-ready</code>	job-remove-ready	Job Remove Ready
<code>job-replaced</code>	job-replaced	Job Replaced
<code>job-required</code>	job-required	Job Required
<code>job-run-ended</code>	job-run-ended	Job Run Ended
<code>job-runtime-error</code>	job-runtime-error	Job Runtime Error
<code>job-runtime-settings</code>	job-runtime-settings	Job Runtime Settings
<code>job-run-started</code>	job-run-started	Job Run Started
<code>job-running-docker</code>	job-running-docker	Job Running Docker
<code>job-running-script</code>	job-running-script	Job Running Script
<code>job-running-subprocess</code>	job-running-subprocess	Job Running Subprocess
<code>job-running-system-d</code>	job-running-system-d	Job Running System D
<code>job-settings</code>	job-settings	Job Settings
<code>job-step-statistics</code>	job-step-statistics	Job Step Statistics
<code>job-started</code>	job-started	Job Started
<code>job-staged</code>	job-staged	Job Staged
<code>job-state-transition</code>	job-state-transition	Job State Transition
<code>job-shutting-down</code>	job-shutting-down	Job Shutting Down
<code>job-stopping</code>	job-stopping	Job Stopping
<code>job-stopped</code>	job-stopped	Job Stopped
<code>job-timed-out</code>	job-timed-out	Job Timed Out
<code>job-suspicious-silence</code>	job-suspicious-silence	Job Suspicious Silence
<code>job-thread-state</code>	job-thread-state	Job Thread State

job-trace	job-trace	Job Trace
job-trace-requires-samples	job-trace-requires-samples	Job Trace Requires Samples
job-updated	job-updated	Job Updated
job-worker-comms-error	job-worker-comms-error	Job Worker Comms Error
job-unstaged	job-unstaged	Job Unstaged
license-state-changed	license-state-changed	License State Changed
license-validation-failed	license-validation-failed	License Validation Failed
license-validation-ok	license-validation-ok	License Validation Ok
license-volume-violation	license-volume-violation	License Volume Violation
new-license	new-license	New License
override-job-coordinated-shutdown	override-job-coordinated-shutdown	Override Job Coordinated Shutdown
override-server-coordinated-shutdown	override-server-coordinated-shutdown	Override Server Coordinated Shutdown
override-worker-coordinated-shutdown	override-worker-coordinated-shutdown	Override Worker Coordinated Shutdown
register-job-thread-dependency	register-job-thread-dependency	Register Job Thread Dependency
register-server-thread-dependency	register-server-thread-dependency	Register Server Thread Dependency
register-worker-thread-dependency	register-worker-thread-dependency	Register Worker Thread Dependency
run-job-failure	run-job-failure	Run Job Failure
server-logs	server-logs	Server Logs
server-metrics-batch	server-metrics-batch	Server Metrics Batch
server-started	server-started	Server Started
server-starting	server-starting	Server Starting
server-stopping	server-stopping	Server Stopping
server-thread-state	server-thread-state	Server Thread State
server-worker-comms-error	server-worker-comms-error	Server Worker Comms Error
shutdown-jobs	shutdown-jobs	Shutdown Jobs
shutdown-worker	shutdown-worker	Shutdown Worker
system-shutdown	system-shutdown	System Shutdown
update-upstream-sync-for-job	update-upstream-sync-for-job	Update Upstream Sync For Job
update-upstream-sync-for-worker	update-upstream-sync-for-worker	Update Upstream Sync For Worker
update-variable	update-variable	Update Variable

user-alert	user-alert	User Alert
user-generated	user-generated	User Generated
user-notification	user-notification	User Notification
worker-command-for-job	worker-command-for-job	Worker Command For Job
worker-auth-lease-ack	worker-auth-lease-ack	Worker Auth Lease Ack
worker-connected	worker-connected	Worker Connected
worker-created	worker-created	Worker Created
worker-debug-heart-beat	worker-debug-heart-beat	Worker Debug Heart Beat
worker-error	worker-error	Worker Error
worker-first-seen	worker-first-seen	Worker First Seen
worker-heart-beat	worker-heart-beat	Worker Heart Beat
worker-logs	worker-logs	Worker Logs
worker-metrics-batch	worker-metrics-batch	Worker Metrics Batch
worker-offline	worker-offline	Worker Offline
worker-requests-auth-lease	worker-requests-auth-lease	Worker Requests Auth Lease
worker-server-comms-error	worker-server-comms-error	Worker Server Comms Error
worker-settings	worker-settings	Worker Settings
worker-shutdown	worker-shutdown	Worker Shutdown
worker-shutting-down	worker-shutting-down	Worker Shutting Down
worker-started	worker-started	Worker Started
worker-state-uuid	worker-state-uuid	Worker State Uuid
worker-stopping	worker-stopping	Worker Stopping
worker-suspicious-silence	worker-suspicious-silence	Worker Suspicious Silence
worker-system-information	worker-system-information	Worker System Information
worker-thread-state	worker-thread-state	Worker Thread State
worker-updated	worker-updated	Worker Updated
worker-modified	worker-modified	Worker Modified
worker-removed	worker-removed	Worker Removed
context-changed	context-changed	Context Changed
rerender-deployment	rerender-deployment	Rerender Deployment
job-killed	job-killed	Job Killed
message-serviced	message-serviced	Message Serviced

failed-to-service-message	failed-to-service-message	Failed To Service Message
worker-wants-initial-settings	worker-wants-initial-settings	Worker Wants Initial Settings
worker-wants-initial-settings-reply	worker-wants-initial-settings-reply	Worker Wants Initial Settings Reply
worker-wants-deployed-jobs	worker-wants-deployed-jobs	Worker Wants Deployed Jobs
worker-wants-deployed-jobs-reply	worker-wants-deployed-jobs-reply	Worker Wants Deployed Jobs Reply
worker-wants-job-configuration	worker-wants-job-configuration	Worker Wants Job Configuration
worker-wants-job-configuration-reply	worker-wants-job-configuration-reply	Worker Wants Job Configuration Reply
job-wants-dslir-key	job-wants-dslir-key	Job Wants Dslir Key
job-wants-dslir-key-reply	job-wants-dslir-key-reply	Job Wants Dslir Key Reply
worker-wants-dslir-key	worker-wants-dslir-key	Worker Wants Dslir Key
worker-wants-dslir-key-reply	worker-wants-dslir-key-reply	Worker Wants Dslir Key Reply
job-wants-variables	job-wants-variables	Job Wants Variables
job-wants-variables-reply	job-wants-variables-reply	Job Wants Variables Reply
job-wants-credentials	job-wants-credentials	Job Wants Credentials
job-wants-credentials-reply	job-wants-credentials-reply	Job Wants Credentials Reply
job-wants-credentials-error	job-wants-credentials-error	Job Wants Credentials Error
job-wants-secret-variables-reply	job-wants-secret-variables-reply	Job Wants Secret Variables Reply
job-credentials-invalidated	job-credentials-invalidated	Job Credentials Invalidated
aggregator-health	aggregator-health	Aggregator Health
worker-aggregator-health	worker-aggregator-health	Worker Aggregator Health
worker-verification-token	worker-verification-token	Worker Verification Token
worker-requests-verification-token	worker-requests-verification-token	Worker Requests Verification Token
runtime-artifact-update	runtime-artifact-update	Runtime Artifact Update
runtime-artifact-update-ack	runtime-artifact-update-ack	Runtime Artifact Update Ack
runtime-artifact-clear	runtime-artifact-clear	Runtime Artifact Clear
runtime-artifact-clear-ack	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
runtime-artifact-fetch	runtime-artifact-fetch	Runtime Artifact Fetch
runtime-artifact-fetch-reply	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
runtime-artifact-fetch-error	runtime-artifact-fetch-error	Runtime Artifact Fetch Error

BigQuery

Reference for the BigQuery component in LyftData's DSL

Source: [reference/dsl/inputs/big-query.md](#)

BigQuery (`big-query`)

Ingest data from Google BigQuery.

Data Warehouse Enterprise edition json

Minimal example

```
input:
big-query: connection: project: ~
```

JSON

```
{
  "input": { "big-query": { "connection": { "project": null } } } }
```

Contents

- [Minimal example](#)
- [Authentication](#)
- [Connection](#)
- [Operation](#)
- [Parameters](#)
- [Query Job](#)
- [Read Session](#)
- [Reliability](#)
- [Schema](#)
- [Trigger](#)
- [Schema](#)

Authentication

Authentication

Field	Type	Required	Description
<code>credentials</code>	<code>Credentials</code>		Authentication credentials. Allowed values: <code>service-account</code> , <code>service-account-file</code> , <code>workload-identity</code> , <code>application-</code>

			default
--	--	--	---------

Connection

Connection

Field	Type	Required	Description
connection	Connection	<input checked="" type="checkbox"/>	Connection details (project, dataset, table).

Operation

Operation

Field	Type	Required	Description
mode	Mode		Operation mode (read-session or query-job). Default: read-session Allowed values: read-session , query-job

Parameters

Parameters

Field	Type	Required	Description
parameters	[Parameters[]](#parameters-fields)		Query parameters or filter bindings.

Query Job

Query Job

Field	Type	Required	Description
query-job	Query Job		Configuration for SQL query jobs.

Read Session

Read Session

Field	Type	Required	Description
read-session	Read Session		Configuration for Storage Read API sessions.

Reliability

Reliability

Field	Type	Required	Description
<code>retry</code>	<code>Retry</code>		Retry configuration for transient failures.

Schema

Schema

Field	Type	Required	Description
<code>schema</code>	<code>Schema</code>		Schema handling and coercion settings.

Trigger

Trigger

Field	Type	Required	Description
<code>trigger</code>	<code>Trigger</code>		Run on the provided cadence; if omitted, this input runs exactly once. Allowed values: <code>message</code> , <code>cron</code> , <code>interval</code>

Schema

- [Credentials Options](#)
- [Trigger - Cron - Window - Window Start Options](#)
- [Trigger - Interval - Window - Window Start Options](#)
- [Trigger Options](#)
- [Credentials - Service Account Fields](#)
- [Credentials - Service Account File Fields](#)
- [Credentials - Workload Identity Fields](#)
- [Connection - Impersonation Fields](#)
- [Connection Fields](#)
- [Parameters Fields](#)
- [Query Job Fields](#)
- [Read Session Fields](#)
- [Retry Fields](#)
- [Schema - Overrides Fields](#)
- [Schema Fields](#)
- [Trigger - Message Fields](#)
- [Trigger - Cron - Window - Window Start - Start Time Fields](#)
- [Trigger - Cron - Window Fields](#)
- [Trigger - Cron Fields](#)
- [Trigger - Interval - Window - Window Start - Start Time Fields](#)
- [Trigger - Interval - Window Fields](#)
- [Trigger - Interval Fields](#)
- [Mode Options](#)
- [Query Job - Priority Options](#)

- [Trigger - Message - Filter Kind Options](#)
- [Trigger - Message - Filter Source Options](#)
- [Trigger - Message - Filter Type Options](#)

Credentials Options

Option	Name	Type	Description
<code>service-account</code>	Service Account	object	
<code>service-account-file</code>	Service Account File	object	
<code>workload-identity</code>	Workload Identity	object	
<code>application-default</code>	Application Default	map	

Trigger - Cron - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	object	
<code>tracked</code>	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	object	
<code>tracked</code>	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger Options

Option	Name	Type	Description
<code>message</code>	Message	object	
<code>cron</code>	Cron	object	
<code>interval</code>	Interval	object	

Credentials - Service Account Fields

Field	Type	Required	Description
<code>secret-id</code> ✓	string	✓	

Credentials - Service Account File Fields

Field	Type	Required	Description
<code>path</code>	string	✓	

Credentials - Workload Identity Fields

Field	Type	Required	Description
<code>audience</code> ✓	<code>string</code>	✓	
<code>service-account-email</code> ✓	<code>string</code>		

Connection - Impersonation Fields

Field	Type	Required	Description
<code>service-account</code> ✓	<code>string</code>	✓	
<code>delegates</code> ✓	<code>string[]</code>		

Connection Fields

Field	Type	Required	Description
<code>project</code> ✓	<code>string</code>	✓	
<code>dataset</code> ✓	<code>string</code>		
<code>table</code> ✓	<code>string</code>		
<code>billing-project</code> ✓	<code>string</code>		
<code>location</code> ✓	<code>string</code>		
<code>impersonation</code>	<code>Impersonation</code>		Impersonate a service account (requires IAM Credentials API).

Parameters Fields

Field	Type	Required	Description
<code>name</code>	<code>string</code>	✓	
<code>value</code> ✓	<code>string</code>		
<code>r-type</code>	<code>string</code>		

Query Job Fields

Field	Type	Required	Description
<code>query</code>	<code>string</code>	✓	
<code>use-legacy-sql</code> ✓	<code>boolean</code> (<code>bool</code>)		Default: <code>false</code>
<code>dry-run</code> ✓	<code>boolean</code> (<code>bool</code>)		Default: <code>false</code>

<code>destination-table</code>	<code>string</code>		
<code>priority</code>	<code>Priority</code>		Default: <code>interactive</code> Allowed values: <code>interactive</code> , <code>batch</code>

Read Session Fields

Field	Type	Required	Description
<code>max-stream-count</code>	<code>number (integer)</code>		Examples: <code>42</code> , <code>1.2e-10</code>
<code>selected-fields</code>	<code>string[]</code>		
<code>row-restriction</code>	<code>string</code>		
<code>snapshot-time</code>	<code>string</code>		

Retry Fields

Field	Type	Required	Description
<code>timeout</code>	<code>time-interval (string)</code>	<input checked="" type="checkbox"/>	timeout (e.g. 500ms, 2s etc. - default is 30). Examples: <code>500ms</code> , <code>2h</code>
<code>retries</code>	<code>number (integer)</code>		number of retries. Examples: <code>42</code> , <code>1.2e-10</code>

Schema - Overrides Fields

Field	Type	Required	Description
<code>field-path</code>	<code>string</code>	<input checked="" type="checkbox"/>	
<code>target-type</code>	<code>string</code>		

Schema Fields

Field	Type	Required	Description
<code>auto-fetch</code> ✓	<code>boolean (bool)</code>		Default: <code>true</code>
<code>overrides</code>	<code>[Overrides[]](#schema-overrides-fields)</code>		

Trigger - Message Fields

Field	Type	Required	Description
<code>limit</code> ✓	<code>number (integer)</code>		The number of times to run the input. Examples: <code>42</code> , <code>1.2e-10</code>
<code>filter-kind</code>	<code>Filter Kind</code>		Specifies whether the message originated from the "system" or by the "user". Allowed values: <code>system</code> , <code>user</code> , <code>runtime-artifact-fetch</code> , <code>runtime-artifact-fetch-error</code> , <code>runtime-artifact-clear</code> ,

			<code>runtime-artifact-clear-ack</code> , <code>runtime-artifact-fetch-reply</code> , <code>runtime-artifact-update</code> , <code>runtime-artifact-update-ack</code>
<code>filter-source</code>	[<code>Filter Source[]</code>] (#trigger-message-filter-source-options)		Specifies what process generated the message. Was it a "server", "worker" or "job"? Allowed values: <code>job</code> , <code>worker</code> , <code>server</code>
<code>filter-worker</code>	<code>string</code>		Specifies what worker to select.
<code>filter-job</code>	<code>string</code>		Specifies the name of the job that the message came from.
<code>filter-type</code>	[<code>Filter Type[]</code>] (#trigger-message-filter-type-options)		Specifies that particular types of message ought to match. Allowed values: <code>worker-licensed</code> , <code>worker-unlicensed</code> , <code>variable</code> , <code>variable-deleted</code> , <code>begin-shutting-down-job</code> , <code>begin-shutting-down-server</code> , <code>begin-shutting-down-worker</code> , <code>broadcast-job-thread-state</code> , <code>broadcast-server-thread-state</code> , <code>broadcast-worker-thread-state</code> , ...
<code>filter-tag</code>	<code>string</code>		Specifies that messages matched ought to carry a tag with a particular value. This only matches against user-generated messages.

Trigger - Cron - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (<code>string</code>)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (<code>string</code>)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Cron - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (<code>string</code>)	✓	Window size.
<code>offset</code>	<code>duration</code> (<code>string</code>)		Window offset. Default: <code>0s</code>
<code>start</code>	Window Start		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Cron Fields

Field	Type	Required	Description
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<code>cron</code>	<code>cron-expression</code> (string)	✓	The Cron pattern.
<code>immediate</code> ✓	<code>boolean</code> (bool)		Run as soon as invoked, instead of waiting for the specified cron interval. Default: <code>false</code>
<code>random-offset</code>	<code>duration</code> (string)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	<code>Window</code>		Optional window definition when the schedule should only read a bounded range.

Trigger - Interval - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (string)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (string)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (string)	✓	Window size.
<code>offset</code>	<code>duration</code> (string)		Window offset. Default: <code>0s</code>
<code>start</code>	<code>Window Start</code>		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Interval Fields

Field	Type	Required	Description
<code>duration</code>	<code>duration</code> (string)	✓	Duration to wait between events.
<code>random-offset</code>	<code>duration</code> (string)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	<code>Window</code>		Optional window definition when the interval should only cover a bounded range.

Mode Options

Value	Name	Description
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<code>read-session</code>	read-session	Read Session
<code>query-job</code>	query-job	Query Job

Query Job - Priority Options

Value	Name	Description
<code>interactive</code>	interactive	Interactive
<code>batch</code>	batch	Batch

Trigger - Message - Filter Kind Options

Value	Name	Description
<code>system</code>	system	System
<code>user</code>	user	User
<code>runtime-artifact-fetch</code>	runtime-artifact-fetch	Runtime Artifact Fetch
<code>runtime-artifact-fetch-error</code>	runtime-artifact-fetch-error	Runtime Artifact Fetch Error
<code>runtime-artifact-clear</code>	runtime-artifact-clear	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch-reply</code>	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
<code>runtime-artifact-update</code>	runtime-artifact-update	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	runtime-artifact-update-ack	Runtime Artifact Update Ack

Trigger - Message - Filter Source Options

Value	Name	Description
<code>job</code>	job	Job
<code>worker</code>	worker	Worker
<code>server</code>	server	Server

Trigger - Message - Filter Type Options

Value	Name	Description
<code>worker-licensed</code>	worker-licensed	Worker Licensed
<code>worker-unlicensed</code>	worker-unlicensed	Worker Unlicensed
<code>variable</code>	variable	Variable
<code>variable-deleted</code>	variable-deleted	Variable Deleted

<code>begin-shutting-down-job</code>	<code>begin-shutting-down-job</code>	Begin Shutting Down Job
<code>begin-shutting-down-server</code>	<code>begin-shutting-down-server</code>	Begin Shutting Down Server
<code>begin-shutting-down-worker</code>	<code>begin-shutting-down-worker</code>	Begin Shutting Down Worker
<code>broadcast-job-thread-state</code>	<code>broadcast-job-thread-state</code>	Broadcast Job Thread State
<code>broadcast-server-thread-state</code>	<code>broadcast-server-thread-state</code>	Broadcast Server Thread State
<code>broadcast-worker-thread-state</code>	<code>broadcast-worker-thread-state</code>	Broadcast Worker Thread State
<code>check-job-report-time</code>	<code>check-job-report-time</code>	Check Job Report Time
<code>check-worker-report-time</code>	<code>check-worker-report-time</code>	Check Worker Report Time
<code>de-register-job-thread-dependency</code>	<code>de-register-job-thread-dependency</code>	De Register Job Thread Dependency
<code>de-register-server-thread-dependency</code>	<code>de-register-server-thread-dependency</code>	De Register Server Thread Dependency
<code>de-register-worker-thread-dependency</code>	<code>de-register-worker-thread-dependency</code>	De Register Worker Thread Dependency
<code>deployed-job-active</code>	<code>deployed-job-active</code>	Deployed Job Active
<code>deployed-job-removed</code>	<code>deployed-job-removed</code>	Deployed Job Removed
<code>deployed-job-should-be-running</code>	<code>deployed-job-should-be-running</code>	Deployed Job Should Be Running
<code>deployment-phase</code>	<code>deployment-phase</code>	Deployment Phase
<code>heart-beat</code>	<code>heart-beat</code>	Heart Beat
<code>initialise-internal-state</code>	<code>initialise-internal-state</code>	Initialise Internal State
<code>initialise-job-states</code>	<code>initialise-job-states</code>	Initialise Job States
<code>job-batch-end</code>	<code>job-batch-end</code>	Job Batch End
<code>job-backlog-update</code>	<code>job-backlog-update</code>	Job Backlog Update
<code>job-checkpoint-update</code>	<code>job-checkpoint-update</code>	Job Checkpoint Update
<code>job-deploy-ready</code>	<code>job-deploy-ready</code>	Job Deploy Ready
<code>job-deployed</code>	<code>job-deployed</code>	Job Deployed
<code>job-document-end</code>	<code>job-document-end</code>	Job Document End
<code>job-document-start</code>	<code>job-document-start</code>	Job Document Start
<code>job-errors</code>	<code>job-errors</code>	Job Errors
<code>job-execution-anomaly</code>	<code>job-execution-anomaly</code>	Job Execution Anomaly
<code>job-execution-status</code>	<code>job-execution-status</code>	Job Execution Status
<code>job-emit-custom</code>	<code>job-emit-custom</code>	Job Emit Custom
<code>job-finished</code>	<code>job-finished</code>	Job Finished

<code>job-idle</code>	<code>job-idle</code>	Job Idle
<code>job-initiated</code>	<code>job-initiated</code>	Job Initiated
<code>job-is-processing</code>	<code>job-is-processing</code>	Job Is Processing
<code>job-logs</code>	<code>job-logs</code>	Job Logs
<code>job-metrics</code>	<code>job-metrics</code>	Job Metrics
<code>job-notifications</code>	<code>job-notifications</code>	Job Notifications
<code>job-removing</code>	<code>job-removing</code>	Job Removing
<code>job-removed</code>	<code>job-removed</code>	Job Removed
<code>job-remove-failed</code>	<code>job-remove-failed</code>	Job Remove Failed
<code>job-remove-ready</code>	<code>job-remove-ready</code>	Job Remove Ready
<code>job-replaced</code>	<code>job-replaced</code>	Job Replaced
<code>job-required</code>	<code>job-required</code>	Job Required
<code>job-run-ended</code>	<code>job-run-ended</code>	Job Run Ended
<code>job-runtime-error</code>	<code>job-runtime-error</code>	Job Runtime Error
<code>job-runtime-settings</code>	<code>job-runtime-settings</code>	Job Runtime Settings
<code>job-run-started</code>	<code>job-run-started</code>	Job Run Started
<code>job-running-docker</code>	<code>job-running-docker</code>	Job Running Docker
<code>job-running-script</code>	<code>job-running-script</code>	Job Running Script
<code>job-running-subprocess</code>	<code>job-running-subprocess</code>	Job Running Subprocess
<code>job-running-system-d</code>	<code>job-running-system-d</code>	Job Running System D
<code>job-settings</code>	<code>job-settings</code>	Job Settings
<code>job-step-statistics</code>	<code>job-step-statistics</code>	Job Step Statistics
<code>job-started</code>	<code>job-started</code>	Job Started
<code>job-staged</code>	<code>job-staged</code>	Job Staged
<code>job-state-transition</code>	<code>job-state-transition</code>	Job State Transition
<code>job-shutting-down</code>	<code>job-shutting-down</code>	Job Shutting Down
<code>job-stopping</code>	<code>job-stopping</code>	Job Stopping
<code>job-stopped</code>	<code>job-stopped</code>	Job Stopped
<code>job-timed-out</code>	<code>job-timed-out</code>	Job Timed Out
<code>job-suspicious-silence</code>	<code>job-suspicious-silence</code>	Job Suspicious Silence
<code>job-thread-state</code>	<code>job-thread-state</code>	Job Thread State
<code>job-trace</code>	<code>job-trace</code>	Job Trace

job-trace-requires-samples	job-trace-requires-samples	Job Trace Requires Samples
job-updated	job-updated	Job Updated
job-worker-comms-error	job-worker-comms-error	Job Worker Comms Error
job-unstaged	job-unstaged	Job Unstaged
license-state-changed	license-state-changed	License State Changed
license-validation-failed	license-validation-failed	License Validation Failed
license-validation-ok	license-validation-ok	License Validation Ok
license-volume-violation	license-volume-violation	License Volume Violation
new-license	new-license	New License
override-job-coordinated-shutdown	override-job-coordinated-shutdown	Override Job Coordinated Shutdown
override-server-coordinated-shutdown	override-server-coordinated-shutdown	Override Server Coordinated Shutdown
override-worker-coordinated-shutdown	override-worker-coordinated-shutdown	Override Worker Coordinated Shutdown
register-job-thread-dependency	register-job-thread-dependency	Register Job Thread Dependency
register-server-thread-dependency	register-server-thread-dependency	Register Server Thread Dependency
register-worker-thread-dependency	register-worker-thread-dependency	Register Worker Thread Dependency
run-job-failure	run-job-failure	Run Job Failure
server-logs	server-logs	Server Logs
server-metrics-batch	server-metrics-batch	Server Metrics Batch
server-started	server-started	Server Started
server-starting	server-starting	Server Starting
server-stopping	server-stopping	Server Stopping
server-thread-state	server-thread-state	Server Thread State
server-worker-comms-error	server-worker-comms-error	Server Worker Comms Error
shutdown-jobs	shutdown-jobs	Shutdown Jobs
shutdown-worker	shutdown-worker	Shutdown Worker
system-shutdown	system-shutdown	System Shutdown
update-upstream-sync-for-job	update-upstream-sync-for-job	Update Upstream Sync For Job
update-upstream-sync-for-worker	update-upstream-sync-for-worker	Update Upstream Sync For Worker
update-variable	update-variable	Update Variable
user-alert	user-alert	User Alert

<code>user-generated</code>	user-generated	User Generated
<code>user-notification</code>	user-notification	User Notification
<code>worker-command-for-job</code>	worker-command-for-job	Worker Command For Job
<code>worker-auth-lease-ack</code>	worker-auth-lease-ack	Worker Auth Lease Ack
<code>worker-connected</code>	worker-connected	Worker Connected
<code>worker-created</code>	worker-created	Worker Created
<code>worker-debug-heart-beat</code>	worker-debug-heart-beat	Worker Debug Heart Beat
<code>worker-error</code>	worker-error	Worker Error
<code>worker-first-seen</code>	worker-first-seen	Worker First Seen
<code>worker-heart-beat</code>	worker-heart-beat	Worker Heart Beat
<code>worker-logs</code>	worker-logs	Worker Logs
<code>worker-metrics-batch</code>	worker-metrics-batch	Worker Metrics Batch
<code>worker-offline</code>	worker-offline	Worker Offline
<code>worker-requests-auth-lease</code>	worker-requests-auth-lease	Worker Requests Auth Lease
<code>worker-server-comms-error</code>	worker-server-comms-error	Worker Server Comms Error
<code>worker-settings</code>	worker-settings	Worker Settings
<code>worker-shutdown</code>	worker-shutdown	Worker Shutdown
<code>worker-shutting-down</code>	worker-shutting-down	Worker Shutting Down
<code>worker-started</code>	worker-started	Worker Started
<code>worker-state-uuid</code>	worker-state-uuid	Worker State Uuid
<code>worker-stopping</code>	worker-stopping	Worker Stopping
<code>worker-suspicious-silence</code>	worker-suspicious-silence	Worker Suspicious Silence
<code>worker-system-information</code>	worker-system-information	Worker System Information
<code>worker-thread-state</code>	worker-thread-state	Worker Thread State
<code>worker-updated</code>	worker-updated	Worker Updated
<code>worker-modified</code>	worker-modified	Worker Modified
<code>worker-removed</code>	worker-removed	Worker Removed
<code>context-changed</code>	context-changed	Context Changed
<code>rerender-deployment</code>	rerender-deployment	Rerender Deployment
<code>job-killed</code>	job-killed	Job Killed
<code>message-serviced</code>	message-serviced	Message Serviced
<code>failed-to-service-message</code>	failed-to-service-message	Failed To Service Message

<code>worker-wants-initial-settings</code>	worker-wants-initial-settings	Worker Wants Initial Settings
<code>worker-wants-initial-settings-reply</code>	worker-wants-initial-settings-reply	Worker Wants Initial Settings Reply
<code>worker-wants-deployed-jobs</code>	worker-wants-deployed-jobs	Worker Wants Deployed Jobs
<code>worker-wants-deployed-jobs-reply</code>	worker-wants-deployed-jobs-reply	Worker Wants Deployed Jobs Reply
<code>worker-wants-job-configuration</code>	worker-wants-job-configuration	Worker Wants Job Configuration
<code>worker-wants-job-configuration-reply</code>	worker-wants-job-configuration-reply	Worker Wants Job Configuration Reply
<code>job-wants-dslir-key</code>	job-wants-dslir-key	Job Wants Dslir Key
<code>job-wants-dslir-key-reply</code>	job-wants-dslir-key-reply	Job Wants Dslir Key Reply
<code>worker-wants-dslir-key</code>	worker-wants-dslir-key	Worker Wants Dslir Key
<code>worker-wants-dslir-key-reply</code>	worker-wants-dslir-key-reply	Worker Wants Dslir Key Reply
<code>job-wants-variables</code>	job-wants-variables	Job Wants Variables
<code>job-wants-variables-reply</code>	job-wants-variables-reply	Job Wants Variables Reply
<code>job-wants-credentials</code>	job-wants-credentials	Job Wants Credentials
<code>job-wants-credentials-reply</code>	job-wants-credentials-reply	Job Wants Credentials Reply
<code>job-wants-credentials-error</code>	job-wants-credentials-error	Job Wants Credentials Error
<code>job-wants-secret-variables-reply</code>	job-wants-secret-variables-reply	Job Wants Secret Variables Reply
<code>job-credentials-invalidated</code>	job-credentials-invalidated	Job Credentials Invalidated
<code>aggregator-health</code>	aggregator-health	Aggregator Health
<code>worker-aggregator-health</code>	worker-aggregator-health	Worker Aggregator Health
<code>worker-verification-token</code>	worker-verification-token	Worker Verification Token
<code>worker-requests-verification-token</code>	worker-requests-verification-token	Worker Requests Verification Token
<code>runtime-artifact-update</code>	runtime-artifact-update	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	runtime-artifact-update-ack	Runtime Artifact Update Ack
<code>runtime-artifact-clear</code>	runtime-artifact-clear	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch</code>	runtime-artifact-fetch	Runtime Artifact Fetch
<code>runtime-artifact-fetch-reply</code>	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
<code>runtime-artifact-fetch-error</code>	runtime-artifact-fetch-error	Runtime Artifact Fetch Error

ClickHouse

Reference for the ClickHouse component in LyftData's DSL

Source: [reference/dsl/inputs/clickhouse.md](#)

ClickHouse (`clickhouse`)

Query a ClickHouse cluster on a schedule.

Database Enterprise edition json

Minimal example

```
input:
  clickhouse: endpoint: "" query: ""
```

JSON

```
{
  "input": { "clickhouse": { "endpoint": "", "query": "" } } }
```

Contents

- [Minimal example](#)
- [Authentication](#)
- [Connection](#)
- [Cursor](#)
- [Processing](#)
- [Query](#)
- [Reliability](#)
- [Trigger](#)
- [Schema](#)

Authentication

Authentication

Field	Type	Required	Description
<code>auth</code>	<code>Auth</code>		Optional authentication settings.

Connection

Connection

Field	Type	Required	Description
<code>endpoint</code>	<code>url</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Base endpoint (e.g. <code>https://host:8443</code> or <code>http://router:8123</code>). Examples: <code>https://example.com/path</code>
<code>database</code>	<code>string</code>		Database to run the query in (defaults to the connection default).
<code>insecure-skip-verify</code> ✓	<code>boolean</code> (<code>bool</code>)		Skip TLS certificate verification (development only). Default: <code>false</code>
<code>compression</code> ✓	<code>boolean</code> (<code>bool</code>)		Request gzip-compressed responses from ClickHouse. Default: <code>false</code>

Cursor

Cursor

Field	Type	Required	Description
<code>cursor</code>	<code>Cursor</code>		Cursor configuration for incremental polling.

Processing

Processing

Field	Type	Required	Description
<code>batch</code>	<code>Batch</code>		Optional batching hints (mirrors Exec/HTTP poll behaviour).

Query

Query

Field	Type	Required	Description
<code>query</code>	<code>multiline-text</code> (<code>string</code>)	<input checked="" type="checkbox"/>	SQL query to execute.
<code>parameters</code> ✓	<code>map</code> (<code>string</code>)		Named parameters interpolated into the query (substituted into the SQL statement).

Reliability

Reliability

Field	Type	Required	Description
<code>retry</code>	<code>Retry</code>		Retry configuration whenever the query fails.

Trigger

Trigger

Field	Type	Required	Description
<code>trigger</code>	<code>Trigger</code>		When and how often the query should run If omitted, runs exactly once. Allowed values: <code>message</code> , <code>cron</code> , <code>interval</code>

Schema

- [Trigger - Cron - Window - Window Start Options](#)
- [Trigger - Interval - Window - Window Start Options](#)
- [Trigger Options](#)
- [Auth Fields](#)
- [Cursor Fields](#)
- [Batch Fields](#)
- [Retry Fields](#)
- [Trigger - Message Fields](#)
- [Trigger - Cron - Window - Window Start - Start Time Fields](#)
- [Trigger - Cron - Window Fields](#)
- [Trigger - Cron Fields](#)
- [Trigger - Interval - Window - Window Start - Start Time Fields](#)
- [Trigger - Interval - Window Fields](#)
- [Trigger - Interval Fields](#)
- [Parameters Table](#)
- [Trigger - Message - Filter Kind Options](#)
- [Trigger - Message - Filter Source Options](#)
- [Trigger - Message - Filter Type Options](#)

Trigger - Cron - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	<code>Start Time</code>	<code>object</code>	
<code>tracked</code>	<code>Tracked</code>	<code>string</code>	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	<code>Start Time</code>	<code>object</code>	
<code>tracked</code>	<code>Tracked</code>	<code>string</code>	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger Options

Option	Name	Type	Description
--------	------	------	-------------

<code>message</code>	Message	<code>object</code>	
<code>cron</code>	Cron	<code>object</code>	
<code>interval</code>	Interval	<code>object</code>	

Auth Fields

Field	Type	Required	Description
<code>username</code>	<code>string</code>		
<code>password</code>	<code>string</code>		
<code>access-token</code>	<code>string</code>		
<code>tls-certificate</code>	<code>string</code>		
<code>tls-key</code>	<code>string</code>		

Cursor Fields

Field	Type	Required	Description
<code>column</code>	<code>string</code>	<input checked="" type="checkbox"/>	Column used to order results and resume from.
<code>initial-value</code>	<code>string</code>		Initial value to start from if no persisted cursor exists.
<code>persist-to</code>	<code>string</code>		Persisted variable name (if set, last value is stored for future runs).

Batch Fields

Field	Type	Required	Description
<code>uuid-field</code>	<code>field</code> (<code>string</code>)		Field where generated uuid, the unique marker for the group, will be stored. Examples: <code>data_field</code>
<code>invocation-time-field</code>	<code>field</code> (<code>string</code>)		Field where invocation time will be stored. Examples: <code>data_field</code>
<code>completion-time-field</code>	<code>field</code> (<code>string</code>)		Field where completion (end of execution) time will be stored. Examples: <code>data_field</code>
<code>begin-marker-field</code>	<code>field</code> (<code>string</code>)		Field used to mark first event in the group. Examples: <code>data_field</code>
<code>end-marker-field</code>	<code>field</code> (<code>string</code>)		Field used to mark last event in the group. Examples: <code>data_field</code>
<code>line-count-field</code>	<code>field</code> (<code>string</code>)		Field used to store the line count of the batch. Examples: <code>data_field</code>
<code>line-num-field</code>	<code>field</code> (<code>string</code>)		Field used to store the line number of the batch. Examples: <code>data_field</code>

Retry Fields

Field	Type	Required	Description
<code>timeout</code>	<code>time-interval</code> (<code>string</code>)	✓	timeout (e.g. 500ms, 2s etc. - default is 30). Examples: <code>500ms</code> , <code>2h</code>
<code>retries</code>	<code>number</code> (<code>integer</code>)		number of retries. Examples: <code>42</code> , <code>1.2e-10</code>

Trigger - Message Fields

Field	Type	Required	Description
<code>limit</code> ✓	<code>number</code> (<code>integer</code>)		The number of times to run the input. Examples: <code>42</code> , <code>1.2e-10</code>
<code>filter-kind</code>	<code>Filter Kind</code>		Specifies whether the message originated from the "system" or by the "user". Allowed values: <code>system</code> , <code>user</code> , <code>runtime-artifact-fetch</code> , <code>runtime-artifact-fetch-error</code> , <code>runtime-artifact-clear</code> , <code>runtime-artifact-clear-ack</code> , <code>runtime-artifact-fetch-reply</code> , <code>runtime-artifact-update</code> , <code>runtime-artifact-update-ack</code>
<code>filter-source</code>	[<code>Filter Source[]</code>] (#trigger-message-filter-source-options)		Specifies what process generated the message. Was it a "server", "worker" or "job"? Allowed values: <code>job</code> , <code>worker</code> , <code>server</code>
<code>filter-worker</code>	<code>string</code>		Specifies what worker to select.
<code>filter-job</code>	<code>string</code>		Specifies the name of the job that the message came from.
<code>filter-type</code>	[<code>Filter Type[]</code>] (#trigger-message-filter-type-options)		Specifies that particular types of message ought to match. Allowed values: <code>worker-licensed</code> , <code>worker-unlicensed</code> , <code>variable</code> , <code>variable-deleted</code> , <code>begin-shutting-down-job</code> , <code>begin-shutting-down-server</code> , <code>begin-shutting-down-worker</code> , <code>broadcast-job-thread-state</code> , <code>broadcast-server-thread-state</code> , <code>broadcast-worker-thread-state</code> , ...
<code>filter-tag</code>	<code>string</code>		Specifies that messages matched ought to carry a tag with a particular value. This only matches against user-generated messages.

Trigger - Cron - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (<code>string</code>)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (<code>string</code>)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Cron - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (<code>string</code>)	✓	Window size.
<code>offset</code>	<code>duration</code> (<code>string</code>)		Window offset. Default: <code>0s</code>
<code>start</code>	Window Start		Specify file where timestamp would be stored in order to resume, for when job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Cron Fields

Field	Type	Required	Description
<code>cron</code>	<code>cron-expression</code> (<code>string</code>)	✓	The Cron pattern.
<code>immediate</code> ✓	<code>boolean</code> (<code>bool</code>)		Run as soon as invoked, instead of waiting for the specified cron interval. Default: <code>false</code>
<code>random-offset</code>	<code>duration</code> (<code>string</code>)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	Window		Optional window definition when the schedule should only read a bounded range.

Trigger - Interval - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (<code>string</code>)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (<code>string</code>)	✓	Specify file where timestamp would be stored in order to resume, for when job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (<code>string</code>)	✓	Window size.
<code>offset</code>	<code>duration</code> (<code>string</code>)		Window offset. Default: <code>0s</code>
<code>start</code>	Window Start		Specify file where timestamp would be stored in order to resume, for when job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Interval Fields

Field	Type	Required	Description
<code>duration</code>	<code>duration</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Duration to wait between events.
<code>random-offset</code>	<code>duration</code> (<code>string</code>)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	<code>Window</code>		Optional window definition when the interval should only cover a bounded range.

Parameters Table

Parameter	Value
<code>param</code>	<code>value</code>

Value format: `templated-text` .

Trigger - Message - Filter Kind Options

Value	Name	Description
<code>system</code>	system	System
<code>user</code>	user	User
<code>runtime-artifact-fetch</code>	runtime-artifact-fetch	Runtime Artifact Fetch
<code>runtime-artifact-fetch-error</code>	runtime-artifact-fetch-error	Runtime Artifact Fetch Error
<code>runtime-artifact-clear</code>	runtime-artifact-clear	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch-reply</code>	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
<code>runtime-artifact-update</code>	runtime-artifact-update	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	runtime-artifact-update-ack	Runtime Artifact Update Ack

Trigger - Message - Filter Source Options

Value	Name	Description
<code>job</code>	job	Job
<code>worker</code>	worker	Worker
<code>server</code>	server	Server

Trigger - Message - Filter Type Options

Value	Name	Description
<code>worker-licensed</code>	worker-licensed	Worker Licensed

<code>worker-unlicensed</code>	worker-unlicensed	Worker Unlicensed
<code>variable</code>	variable	Variable
<code>variable-deleted</code>	variable-deleted	Variable Deleted
<code>begin-shutting-down-job</code>	begin-shutting-down-job	Begin Shutting Down Job
<code>begin-shutting-down-server</code>	begin-shutting-down-server	Begin Shutting Down Server
<code>begin-shutting-down-worker</code>	begin-shutting-down-worker	Begin Shutting Down Worker
<code>broadcast-job-thread-state</code>	broadcast-job-thread-state	Broadcast Job Thread State
<code>broadcast-server-thread-state</code>	broadcast-server-thread-state	Broadcast Server Thread State
<code>broadcast-worker-thread-state</code>	broadcast-worker-thread-state	Broadcast Worker Thread State
<code>check-job-report-time</code>	check-job-report-time	Check Job Report Time
<code>check-worker-report-time</code>	check-worker-report-time	Check Worker Report Time
<code>de-register-job-thread-dependency</code>	de-register-job-thread-dependency	De Register Job Thread Dependency
<code>de-register-server-thread-dependency</code>	de-register-server-thread-dependency	De Register Server Thread Dependency
<code>de-register-worker-thread-dependency</code>	de-register-worker-thread-dependency	De Register Worker Thread Dependency
<code>deployed-job-active</code>	deployed-job-active	Deployed Job Active
<code>deployed-job-removed</code>	deployed-job-removed	Deployed Job Removed
<code>deployed-job-should-be-running</code>	deployed-job-should-be-running	Deployed Job Should Be Running
<code>deployment-phase</code>	deployment-phase	Deployment Phase
<code>heart-beat</code>	heart-beat	Heart Beat
<code>initialise-internal-state</code>	initialise-internal-state	Initialise Internal State
<code>initialise-job-states</code>	initialise-job-states	Initialise Job States
<code>job-batch-end</code>	job-batch-end	Job Batch End
<code>job-backlog-update</code>	job-backlog-update	Job Backlog Update
<code>job-checkpoint-update</code>	job-checkpoint-update	Job Checkpoint Update
<code>job-deploy-ready</code>	job-deploy-ready	Job Deploy Ready
<code>job-deployed</code>	job-deployed	Job Deployed
<code>job-document-end</code>	job-document-end	Job Document End
<code>job-document-start</code>	job-document-start	Job Document Start
<code>job-errors</code>	job-errors	Job Errors
<code>job-execution-anomaly</code>	job-execution-anomaly	Job Execution Anomaly

<code>job-execution-status</code>	<code>job-execution-status</code>	Job Execution Status
<code>job-emit-custom</code>	<code>job-emit-custom</code>	Job Emit Custom
<code>job-finished</code>	<code>job-finished</code>	Job Finished
<code>job-idle</code>	<code>job-idle</code>	Job Idle
<code>job-initiated</code>	<code>job-initiated</code>	Job Initiated
<code>job-is-processing</code>	<code>job-is-processing</code>	Job Is Processing
<code>job-logs</code>	<code>job-logs</code>	Job Logs
<code>job-metrics</code>	<code>job-metrics</code>	Job Metrics
<code>job-notifications</code>	<code>job-notifications</code>	Job Notifications
<code>job-removing</code>	<code>job-removing</code>	Job Removing
<code>job-removed</code>	<code>job-removed</code>	Job Removed
<code>job-remove-failed</code>	<code>job-remove-failed</code>	Job Remove Failed
<code>job-remove-ready</code>	<code>job-remove-ready</code>	Job Remove Ready
<code>job-replaced</code>	<code>job-replaced</code>	Job Replaced
<code>job-required</code>	<code>job-required</code>	Job Required
<code>job-run-ended</code>	<code>job-run-ended</code>	Job Run Ended
<code>job-runtime-error</code>	<code>job-runtime-error</code>	Job Runtime Error
<code>job-runtime-settings</code>	<code>job-runtime-settings</code>	Job Runtime Settings
<code>job-run-started</code>	<code>job-run-started</code>	Job Run Started
<code>job-running-docker</code>	<code>job-running-docker</code>	Job Running Docker
<code>job-running-script</code>	<code>job-running-script</code>	Job Running Script
<code>job-running-subprocess</code>	<code>job-running-subprocess</code>	Job Running Subprocess
<code>job-running-system-d</code>	<code>job-running-system-d</code>	Job Running System D
<code>job-settings</code>	<code>job-settings</code>	Job Settings
<code>job-step-statistics</code>	<code>job-step-statistics</code>	Job Step Statistics
<code>job-started</code>	<code>job-started</code>	Job Started
<code>job-staged</code>	<code>job-staged</code>	Job Staged
<code>job-state-transition</code>	<code>job-state-transition</code>	Job State Transition
<code>job-shutting-down</code>	<code>job-shutting-down</code>	Job Shutting Down
<code>job-stopping</code>	<code>job-stopping</code>	Job Stopping
<code>job-stopped</code>	<code>job-stopped</code>	Job Stopped
<code>job-timed-out</code>	<code>job-timed-out</code>	Job Timed Out

job-suspicious-silence	job-suspicious-silence	Job Suspicious Silence
job-thread-state	job-thread-state	Job Thread State
job-trace	job-trace	Job Trace
job-trace-requires-samples	job-trace-requires-samples	Job Trace Requires Samples
job-updated	job-updated	Job Updated
job-worker-comms-error	job-worker-comms-error	Job Worker Comms Error
job-unstaged	job-unstaged	Job Unstaged
license-state-changed	license-state-changed	License State Changed
license-validation-failed	license-validation-failed	License Validation Failed
license-validation-ok	license-validation-ok	License Validation Ok
license-volume-violation	license-volume-violation	License Volume Violation
new-license	new-license	New License
override-job-coordinated-shutdown	override-job-coordinated-shutdown	Override Job Coordinated Shutdown
override-server-coordinated-shutdown	override-server-coordinated-shutdown	Override Server Coordinated Shutdown
override-worker-coordinated-shutdown	override-worker-coordinated-shutdown	Override Worker Coordinated Shutdown
register-job-thread-dependency	register-job-thread-dependency	Register Job Thread Dependency
register-server-thread-dependency	register-server-thread-dependency	Register Server Thread Dependency
register-worker-thread-dependency	register-worker-thread-dependency	Register Worker Thread Dependency
run-job-failure	run-job-failure	Run Job Failure
server-logs	server-logs	Server Logs
server-metrics-batch	server-metrics-batch	Server Metrics Batch
server-started	server-started	Server Started
server-starting	server-starting	Server Starting
server-stopping	server-stopping	Server Stopping
server-thread-state	server-thread-state	Server Thread State
server-worker-comms-error	server-worker-comms-error	Server Worker Comms Error
shutdown-jobs	shutdown-jobs	Shutdown Jobs
shutdown-worker	shutdown-worker	Shutdown Worker
system-shutdown	system-shutdown	System Shutdown
update-upstream-sync-for-job	update-upstream-sync-for-job	Update Upstream Sync For Job

update-upstream-sync-for-worker	update-upstream-sync-for-worker	Update Upstream Sync For Worker
update-variable	update-variable	Update Variable
user-alert	user-alert	User Alert
user-generated	user-generated	User Generated
user-notification	user-notification	User Notification
worker-command-for-job	worker-command-for-job	Worker Command For Job
worker-auth-lease-ack	worker-auth-lease-ack	Worker Auth Lease Ack
worker-connected	worker-connected	Worker Connected
worker-created	worker-created	Worker Created
worker-debug-heart-beat	worker-debug-heart-beat	Worker Debug Heart Beat
worker-error	worker-error	Worker Error
worker-first-seen	worker-first-seen	Worker First Seen
worker-heart-beat	worker-heart-beat	Worker Heart Beat
worker-logs	worker-logs	Worker Logs
worker-metrics-batch	worker-metrics-batch	Worker Metrics Batch
worker-offline	worker-offline	Worker Offline
worker-requests-auth-lease	worker-requests-auth-lease	Worker Requests Auth Lease
worker-server-comms-error	worker-server-comms-error	Worker Server Comms Error
worker-settings	worker-settings	Worker Settings
worker-shutdown	worker-shutdown	Worker Shutdown
worker-shutting-down	worker-shutting-down	Worker Shutting Down
worker-started	worker-started	Worker Started
worker-state-uuid	worker-state-uuid	Worker State Uuid
worker-stopping	worker-stopping	Worker Stopping
worker-suspicious-silence	worker-suspicious-silence	Worker Suspicious Silence
worker-system-information	worker-system-information	Worker System Information
worker-thread-state	worker-thread-state	Worker Thread State
worker-updated	worker-updated	Worker Updated
worker-modified	worker-modified	Worker Modified
worker-removed	worker-removed	Worker Removed
context-changed	context-changed	Context Changed
rerender-deployment	rerender-deployment	Rerender Deployment

job-killed	job-killed	Job Killed
message-serviced	message-serviced	Message Serviced
failed-to-service-message	failed-to-service-message	Failed To Service Message
worker-wants-initial-settings	worker-wants-initial-settings	Worker Wants Initial Settings
worker-wants-initial-settings-reply	worker-wants-initial-settings-reply	Worker Wants Initial Settings Reply
worker-wants-deployed-jobs	worker-wants-deployed-jobs	Worker Wants Deployed Jobs
worker-wants-deployed-jobs-reply	worker-wants-deployed-jobs-reply	Worker Wants Deployed Jobs Reply
worker-wants-job-configuration	worker-wants-job-configuration	Worker Wants Job Configuration
worker-wants-job-configuration-reply	worker-wants-job-configuration-reply	Worker Wants Job Configuration Reply
job-wants-dslir-key	job-wants-dslir-key	Job Wants Dslir Key
job-wants-dslir-key-reply	job-wants-dslir-key-reply	Job Wants Dslir Key Reply
worker-wants-dslir-key	worker-wants-dslir-key	Worker Wants Dslir Key
worker-wants-dslir-key-reply	worker-wants-dslir-key-reply	Worker Wants Dslir Key Reply
job-wants-variables	job-wants-variables	Job Wants Variables
job-wants-variables-reply	job-wants-variables-reply	Job Wants Variables Reply
job-wants-credentials	job-wants-credentials	Job Wants Credentials
job-wants-credentials-reply	job-wants-credentials-reply	Job Wants Credentials Reply
job-wants-credentials-error	job-wants-credentials-error	Job Wants Credentials Error
job-wants-secret-variables-reply	job-wants-secret-variables-reply	Job Wants Secret Variables Reply
job-credentials-invalidated	job-credentials-invalidated	Job Credentials Invalidated
aggregator-health	aggregator-health	Aggregator Health
worker-aggregator-health	worker-aggregator-health	Worker Aggregator Health
worker-verification-token	worker-verification-token	Worker Verification Token
worker-requests-verification-token	worker-requests-verification-token	Worker Requests Verification Token
runtime-artifact-update	runtime-artifact-update	Runtime Artifact Update
runtime-artifact-update-ack	runtime-artifact-update-ack	Runtime Artifact Update Ack
runtime-artifact-clear	runtime-artifact-clear	Runtime Artifact Clear
runtime-artifact-clear-ack	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
runtime-artifact-fetch	runtime-artifact-fetch	Runtime Artifact Fetch
runtime-artifact-fetch-reply	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply

<code>runtime-artifact-fetch-error</code>	runtime-artifact-fetch-error	Runtime Artifact Fetch Error
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Echo

Reference for the Echo component in LyftData's DSL

Source: [reference/dsl/inputs/echo.md](#)

Echo (`echo`)

Create a simple static event.

Utility json raw

Minimal example

```
input:
  echo: event: ""
```

JSON

```
{
  "input": { "echo": { "event": "" } } }
```

Contents

- [Minimal example](#)
- [Behavior](#)
- [Payload](#)
- [Trigger](#)
- [Schema](#)

Behavior

Behavior

Field	Type	Required	Description
<code>json</code> ✓	<code>boolean</code> (<code>bool</code>)		Treat incoming data as JSON. Default: <code>false</code>
<code>ignore-linebreaks</code> ✓	<code>boolean</code> (<code>bool</code>)		Do not treat separate lines as distinct events. Default: <code>false</code>

Payload

Payload

Field	Type	Required	Description
event	multiline-text (string)	✓	The static data to be used as input A message trigger can import data to be used here in <code>{}</code> expressions.

Trigger

Trigger

Field	Type	Required	Description
trigger	Trigger		How and when to trigger runs of the job. If omitted, runs exactly once. Allowed values: <code>message</code> , <code>cron</code> , <code>interval</code>

Schema

- [Trigger - Cron - Window - Window Start Options](#)
- [Trigger - Interval - Window - Window Start Options](#)
- [Trigger Options](#)
- [Trigger - Message Fields](#)
- [Trigger - Cron - Window - Window Start - Start Time Fields](#)
- [Trigger - Cron - Window Fields](#)
- [Trigger - Cron Fields](#)
- [Trigger - Interval - Window - Window Start - Start Time Fields](#)
- [Trigger - Interval - Window Fields](#)
- [Trigger - Interval Fields](#)
- [Trigger - Message - Filter Kind Options](#)
- [Trigger - Message - Filter Source Options](#)
- [Trigger - Message - Filter Type Options](#)

Trigger - Cron - Window - Window Start Options

Option	Name	Type	Description
start-time	Start Time	object	
tracked	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window - Window Start Options

Option	Name	Type	Description
start-time	Start Time	object	
tracked	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger Options

Option	Name	Type	Description
<code>message</code>	Message	object	
<code>cron</code>	Cron	object	
<code>interval</code>	Interval	object	

Trigger - Message Fields

Field	Type	Required	Description
<code>limit</code> ✓	number (integer)		The number of times to run the input. Examples: <code>42</code> , <code>1.2e-10</code>
<code>filter-kind</code>	Filter Kind		Specifies whether the message originated from the "system" or by the "user". Allowed values: <code>system</code> , <code>user</code> , <code>runtime-artifact-fetch</code> , <code>runtime-artifact-fetch-error</code> , <code>runtime-artifact-clear</code> , <code>runtime-artifact-clear-ack</code> , <code>runtime-artifact-fetch-reply</code> , <code>runtime-artifact-update</code> , <code>runtime-artifact-update-ack</code>
<code>filter-source</code>	[Filter Source[]] (#trigger-message-filter-source-options)		Specifies what process generated the message. Was it a "server", "worker" or "job"? Allowed values: <code>job</code> , <code>worker</code> , <code>server</code>
<code>filter-worker</code>	string		Specifies what worker to select.
<code>filter-job</code>	string		Specifies the name of the job that the message came from.
<code>filter-type</code>	[Filter Type[]] (#trigger-message-filter-type-options)		Specifies that particular types of message ought to match. Allowed values: <code>worker-licensed</code> , <code>worker-unlicensed</code> , <code>variable</code> , <code>variable-deleted</code> , <code>begin-shutting-down-job</code> , <code>begin-shutting-down-server</code> , <code>begin-shutting-down-worker</code> , <code>broadcast-job-thread-state</code> , <code>broadcast-server-thread-state</code> , <code>broadcast-worker-thread-state</code> , ...
<code>filter-tag</code>	string		Specifies that messages matched ought to carry a tag with a particular value. This only matches against user-generated messages.

Trigger - Cron - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	time-format (string)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	path (string)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Cron - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (<code>string</code>)	✓	Window size.
<code>offset</code>	<code>duration</code> (<code>string</code>)		Window offset. Default: <code>0s</code>
<code>start</code>	Window Start		Specify file where timestamp would be stored in order to resume, for when job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Cron Fields

Field	Type	Required	Description
<code>cron</code>	<code>cron-expression</code> (<code>string</code>)	✓	The Cron pattern.
<code>immediate</code> ✓	<code>boolean</code> (<code>bool</code>)		Run as soon as invoked, instead of waiting for the specified cron interval. Default: <code>false</code>
<code>random-offset</code>	<code>duration</code> (<code>string</code>)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	Window		Optional window definition when the schedule should only read a bounded range.

Trigger - Interval - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (<code>string</code>)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (<code>string</code>)	✓	Specify file where timestamp would be stored in order to resume, for when job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (<code>string</code>)	✓	Window size.
<code>offset</code>	<code>duration</code> (<code>string</code>)		Window offset. Default: <code>0s</code>
<code>start</code>	Window Start		Specify file where timestamp would be stored in order to resume, for when job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Interval Fields

Field	Type	Required	Description
<code>duration</code>	<code>duration</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Duration to wait between events.
<code>random-offset</code>	<code>duration</code> (<code>string</code>)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	<code>Window</code>		Optional window definition when the interval should only cover a bounded range.

Trigger - Message - Filter Kind Options

Value	Name	Description
<code>system</code>	system	System
<code>user</code>	user	User
<code>runtime-artifact-fetch</code>	runtime-artifact-fetch	Runtime Artifact Fetch
<code>runtime-artifact-fetch-error</code>	runtime-artifact-fetch-error	Runtime Artifact Fetch Error
<code>runtime-artifact-clear</code>	runtime-artifact-clear	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch-reply</code>	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
<code>runtime-artifact-update</code>	runtime-artifact-update	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	runtime-artifact-update-ack	Runtime Artifact Update Ack

Trigger - Message - Filter Source Options

Value	Name	Description
<code>job</code>	job	Job
<code>worker</code>	worker	Worker
<code>server</code>	server	Server

Trigger - Message - Filter Type Options

Value	Name	Description
<code>worker-licensed</code>	worker-licensed	Worker Licensed
<code>worker-unlicensed</code>	worker-unlicensed	Worker Unlicensed
<code>variable</code>	variable	Variable
<code>variable-deleted</code>	variable-deleted	Variable Deleted
<code>begin-shutting-down-job</code>	begin-shutting-down-job	Begin Shutting Down Job

<code>begin-shutting-down-server</code>	<code>begin-shutting-down-server</code>	Begin Shutting Down Server
<code>begin-shutting-down-worker</code>	<code>begin-shutting-down-worker</code>	Begin Shutting Down Worker
<code>broadcast-job-thread-state</code>	<code>broadcast-job-thread-state</code>	Broadcast Job Thread State
<code>broadcast-server-thread-state</code>	<code>broadcast-server-thread-state</code>	Broadcast Server Thread State
<code>broadcast-worker-thread-state</code>	<code>broadcast-worker-thread-state</code>	Broadcast Worker Thread State
<code>check-job-report-time</code>	<code>check-job-report-time</code>	Check Job Report Time
<code>check-worker-report-time</code>	<code>check-worker-report-time</code>	Check Worker Report Time
<code>de-register-job-thread-dependency</code>	<code>de-register-job-thread-dependency</code>	De Register Job Thread Dependency
<code>de-register-server-thread-dependency</code>	<code>de-register-server-thread-dependency</code>	De Register Server Thread Dependency
<code>de-register-worker-thread-dependency</code>	<code>de-register-worker-thread-dependency</code>	De Register Worker Thread Dependency
<code>deployed-job-active</code>	<code>deployed-job-active</code>	Deployed Job Active
<code>deployed-job-removed</code>	<code>deployed-job-removed</code>	Deployed Job Removed
<code>deployed-job-should-be-running</code>	<code>deployed-job-should-be-running</code>	Deployed Job Should Be Running
<code>deployment-phase</code>	<code>deployment-phase</code>	Deployment Phase
<code>heart-beat</code>	<code>heart-beat</code>	Heart Beat
<code>initialise-internal-state</code>	<code>initialise-internal-state</code>	Initialise Internal State
<code>initialise-job-states</code>	<code>initialise-job-states</code>	Initialise Job States
<code>job-batch-end</code>	<code>job-batch-end</code>	Job Batch End
<code>job-backlog-update</code>	<code>job-backlog-update</code>	Job Backlog Update
<code>job-checkpoint-update</code>	<code>job-checkpoint-update</code>	Job Checkpoint Update
<code>job-deploy-ready</code>	<code>job-deploy-ready</code>	Job Deploy Ready
<code>job-deployed</code>	<code>job-deployed</code>	Job Deployed
<code>job-document-end</code>	<code>job-document-end</code>	Job Document End
<code>job-document-start</code>	<code>job-document-start</code>	Job Document Start
<code>job-errors</code>	<code>job-errors</code>	Job Errors
<code>job-execution-anomaly</code>	<code>job-execution-anomaly</code>	Job Execution Anomaly
<code>job-execution-status</code>	<code>job-execution-status</code>	Job Execution Status
<code>job-emit-custom</code>	<code>job-emit-custom</code>	Job Emit Custom
<code>job-finished</code>	<code>job-finished</code>	Job Finished
<code>job-idle</code>	<code>job-idle</code>	Job Idle

<code>job-initiated</code>	job-initiated	Job Initiated
<code>job-is-processing</code>	job-is-processing	Job Is Processing
<code>job-logs</code>	job-logs	Job Logs
<code>job-metrics</code>	job-metrics	Job Metrics
<code>job-notifications</code>	job-notifications	Job Notifications
<code>job-removing</code>	job-removing	Job Removing
<code>job-removed</code>	job-removed	Job Removed
<code>job-remove-failed</code>	job-remove-failed	Job Remove Failed
<code>job-remove-ready</code>	job-remove-ready	Job Remove Ready
<code>job-replaced</code>	job-replaced	Job Replaced
<code>job-required</code>	job-required	Job Required
<code>job-run-ended</code>	job-run-ended	Job Run Ended
<code>job-runtime-error</code>	job-runtime-error	Job Runtime Error
<code>job-runtime-settings</code>	job-runtime-settings	Job Runtime Settings
<code>job-run-started</code>	job-run-started	Job Run Started
<code>job-running-docker</code>	job-running-docker	Job Running Docker
<code>job-running-script</code>	job-running-script	Job Running Script
<code>job-running-subprocess</code>	job-running-subprocess	Job Running Subprocess
<code>job-running-system-d</code>	job-running-system-d	Job Running System D
<code>job-settings</code>	job-settings	Job Settings
<code>job-step-statistics</code>	job-step-statistics	Job Step Statistics
<code>job-started</code>	job-started	Job Started
<code>job-staged</code>	job-staged	Job Staged
<code>job-state-transition</code>	job-state-transition	Job State Transition
<code>job-shutting-down</code>	job-shutting-down	Job Shutting Down
<code>job-stopping</code>	job-stopping	Job Stopping
<code>job-stopped</code>	job-stopped	Job Stopped
<code>job-timed-out</code>	job-timed-out	Job Timed Out
<code>job-suspicious-silence</code>	job-suspicious-silence	Job Suspicious Silence
<code>job-thread-state</code>	job-thread-state	Job Thread State
<code>job-trace</code>	job-trace	Job Trace
<code>job-trace-requires-samples</code>	job-trace-requires-samples	Job Trace Requires Samples

job-updated	job-updated	Job Updated
job-worker-comms-error	job-worker-comms-error	Job Worker Comms Error
job-unstaged	job-unstaged	Job Unstaged
license-state-changed	license-state-changed	License State Changed
license-validation-failed	license-validation-failed	License Validation Failed
license-validation-ok	license-validation-ok	License Validation Ok
license-volume-violation	license-volume-violation	License Volume Violation
new-license	new-license	New License
override-job-coordinated-shutdown	override-job-coordinated-shutdown	Override Job Coordinated Shutdown
override-server-coordinated-shutdown	override-server-coordinated-shutdown	Override Server Coordinated Shutdown
override-worker-coordinated-shutdown	override-worker-coordinated-shutdown	Override Worker Coordinated Shutdown
register-job-thread-dependency	register-job-thread-dependency	Register Job Thread Dependency
register-server-thread-dependency	register-server-thread-dependency	Register Server Thread Dependency
register-worker-thread-dependency	register-worker-thread-dependency	Register Worker Thread Dependency
run-job-failure	run-job-failure	Run Job Failure
server-logs	server-logs	Server Logs
server-metrics-batch	server-metrics-batch	Server Metrics Batch
server-started	server-started	Server Started
server-starting	server-starting	Server Starting
server-stopping	server-stopping	Server Stopping
server-thread-state	server-thread-state	Server Thread State
server-worker-comms-error	server-worker-comms-error	Server Worker Comms Error
shutdown-jobs	shutdown-jobs	Shutdown Jobs
shutdown-worker	shutdown-worker	Shutdown Worker
system-shutdown	system-shutdown	System Shutdown
update-upstream-sync-for-job	update-upstream-sync-for-job	Update Upstream Sync For Job
update-upstream-sync-for-worker	update-upstream-sync-for-worker	Update Upstream Sync For Worker
update-variable	update-variable	Update Variable
user-alert	user-alert	User Alert
user-generated	user-generated	User Generated

<code>user-notification</code>	user-notification	User Notification
<code>worker-command-for-job</code>	worker-command-for-job	Worker Command For Job
<code>worker-auth-lease-ack</code>	worker-auth-lease-ack	Worker Auth Lease Ack
<code>worker-connected</code>	worker-connected	Worker Connected
<code>worker-created</code>	worker-created	Worker Created
<code>worker-debug-heart-beat</code>	worker-debug-heart-beat	Worker Debug Heart Beat
<code>worker-error</code>	worker-error	Worker Error
<code>worker-first-seen</code>	worker-first-seen	Worker First Seen
<code>worker-heart-beat</code>	worker-heart-beat	Worker Heart Beat
<code>worker-logs</code>	worker-logs	Worker Logs
<code>worker-metrics-batch</code>	worker-metrics-batch	Worker Metrics Batch
<code>worker-offline</code>	worker-offline	Worker Offline
<code>worker-requests-auth-lease</code>	worker-requests-auth-lease	Worker Requests Auth Lease
<code>worker-server-comms-error</code>	worker-server-comms-error	Worker Server Comms Error
<code>worker-settings</code>	worker-settings	Worker Settings
<code>worker-shutdown</code>	worker-shutdown	Worker Shutdown
<code>worker-shutting-down</code>	worker-shutting-down	Worker Shutting Down
<code>worker-started</code>	worker-started	Worker Started
<code>worker-state-uuid</code>	worker-state-uuid	Worker State Uuid
<code>worker-stopping</code>	worker-stopping	Worker Stopping
<code>worker-suspicious-silence</code>	worker-suspicious-silence	Worker Suspicious Silence
<code>worker-system-information</code>	worker-system-information	Worker System Information
<code>worker-thread-state</code>	worker-thread-state	Worker Thread State
<code>worker-updated</code>	worker-updated	Worker Updated
<code>worker-modified</code>	worker-modified	Worker Modified
<code>worker-removed</code>	worker-removed	Worker Removed
<code>context-changed</code>	context-changed	Context Changed
<code>rerender-deployment</code>	rerender-deployment	Rerender Deployment
<code>job-killed</code>	job-killed	Job Killed
<code>message-serviced</code>	message-serviced	Message Serviced
<code>failed-to-service-message</code>	failed-to-service-message	Failed To Service Message
<code>worker-wants-initial-settings</code>	worker-wants-initial-settings	Worker Wants Initial Settings

<code>worker-wants-initial-settings-reply</code>	<code>worker-wants-initial-settings-reply</code>	Worker Wants Initial Settings Reply
<code>worker-wants-deployed-jobs</code>	<code>worker-wants-deployed-jobs</code>	Worker Wants Deployed Jobs
<code>worker-wants-deployed-jobs-reply</code>	<code>worker-wants-deployed-jobs-reply</code>	Worker Wants Deployed Jobs Reply
<code>worker-wants-job-configuration</code>	<code>worker-wants-job-configuration</code>	Worker Wants Job Configuration
<code>worker-wants-job-configuration-reply</code>	<code>worker-wants-job-configuration-reply</code>	Worker Wants Job Configuration Reply
<code>job-wants-dslir-key</code>	<code>job-wants-dslir-key</code>	Job Wants Dslir Key
<code>job-wants-dslir-key-reply</code>	<code>job-wants-dslir-key-reply</code>	Job Wants Dslir Key Reply
<code>worker-wants-dslir-key</code>	<code>worker-wants-dslir-key</code>	Worker Wants Dslir Key
<code>worker-wants-dslir-key-reply</code>	<code>worker-wants-dslir-key-reply</code>	Worker Wants Dslir Key Reply
<code>job-wants-variables</code>	<code>job-wants-variables</code>	Job Wants Variables
<code>job-wants-variables-reply</code>	<code>job-wants-variables-reply</code>	Job Wants Variables Reply
<code>job-wants-credentials</code>	<code>job-wants-credentials</code>	Job Wants Credentials
<code>job-wants-credentials-reply</code>	<code>job-wants-credentials-reply</code>	Job Wants Credentials Reply
<code>job-wants-credentials-error</code>	<code>job-wants-credentials-error</code>	Job Wants Credentials Error
<code>job-wants-secret-variables-reply</code>	<code>job-wants-secret-variables-reply</code>	Job Wants Secret Variables Reply
<code>job-credentials-invalidated</code>	<code>job-credentials-invalidated</code>	Job Credentials Invalidated
<code>aggregator-health</code>	<code>aggregator-health</code>	Aggregator Health
<code>worker-aggregator-health</code>	<code>worker-aggregator-health</code>	Worker Aggregator Health
<code>worker-verification-token</code>	<code>worker-verification-token</code>	Worker Verification Token
<code>worker-requests-verification-token</code>	<code>worker-requests-verification-token</code>	Worker Requests Verification Token
<code>runtime-artifact-update</code>	<code>runtime-artifact-update</code>	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	<code>runtime-artifact-update-ack</code>	Runtime Artifact Update Ack
<code>runtime-artifact-clear</code>	<code>runtime-artifact-clear</code>	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	<code>runtime-artifact-clear-ack</code>	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch</code>	<code>runtime-artifact-fetch</code>	Runtime Artifact Fetch
<code>runtime-artifact-fetch-reply</code>	<code>runtime-artifact-fetch-reply</code>	Runtime Artifact Fetch Reply
<code>runtime-artifact-fetch-error</code>	<code>runtime-artifact-fetch-error</code>	Runtime Artifact Fetch Error

Exec

Reference for the Exec component in LyftData's DSL

Source: [reference/dsl/inputs/exec.md](#)

Exec (`exec`)

Obtain data by executing a shell command.

Utility binary json raw

Minimal example

```
input:
exec: command: ""
```

JSON

```
{
  "input": { "exec": { "command": "" } } }
```

Contents

- [Minimal example](#)
- [Behavior](#)
- [Command](#)
- [Environment](#)
- [Processing](#)
- [Reliability](#)
- [Response](#)
- [Trigger](#)
- [Schema](#)

Behavior

Behavior

Field	Type	Required	Description
<code>json</code> ✓	<code>boolean</code> (<code>bool</code>)		True if the input is already in JSON format. Default: <code>false</code>

<code>no-strip-linefeeds</code> ✓	<code>boolean</code> (<code>bool</code>)		Do not remove any line endings from the command. Default: <code>false</code>
<code>ignore-line-breaks</code> ✓	<code>boolean</code> (<code>bool</code>)		Treat result as one event. Default: <code>false</code>
<code>payload-mode</code> ✓	<code>Payload Mode</code>		Select how command output should be interpreted (<code>auto</code> , <code>json</code> , <code>raw</code> , <code>binary</code>). Allowed values: <code>auto</code> , <code>json</code> , <code>raw</code> , <code>binary</code>

Command

Command

Field	Type	Required	Description
<code>command</code>	<code>multiline-text</code> (<code>string</code>)	✓	A shell command (Powershell on Windows, system shell otherwise).

Environment

Environment

Field	Type	Required	Description
<code>env</code>	<code>Env</code>		Environment as a YAML file or inline name-value pairs. Allowed values: <code>file</code> , <code>values</code>

Processing

Processing

Field	Type	Required	Description
<code>batch</code>	<code>Batch</code>		Mark each group of input events in a distinct way.

Reliability

Reliability

Field	Type	Required	Description
<code>retry</code>	<code>Retry</code>		Retry policy.
<code>timeout</code>	<code>Timeout</code>		Maximum time to wait (500ms, 2s, etc).

Response

Response

Field	Type	Required	Description
<code>result</code>	<code>Result</code>		Fields where output, errors and status go (default is just stdout).

Trigger

Trigger

Field	Type	Required	Description
<code>trigger</code>	<code>Trigger</code>		When and how to run the command. If omitted, runs exactly once. Allowed values: <code>message</code> , <code>cron</code> , <code>interval</code>

Schema

- [Env Options](#)
- [Trigger - Cron - Window - Window Start Options](#)
- [Trigger - Interval - Window - Window Start Options](#)
- [Trigger Options](#)
- [Batch Fields](#)
- [Retry Fields](#)
- [Timeout Fields](#)
- [Result Fields](#)
- [Trigger - Message Fields](#)
- [Trigger - Cron - Window - Window Start - Start Time Fields](#)
- [Trigger - Cron - Window Fields](#)
- [Trigger - Cron Fields](#)
- [Trigger - Interval - Window - Window Start - Start Time Fields](#)
- [Trigger - Interval - Window Fields](#)
- [Trigger - Interval Fields](#)
- [Payload Mode Options](#)
- [Trigger - Message - Filter Kind Options](#)
- [Trigger - Message - Filter Source Options](#)
- [Trigger - Message - Filter Type Options](#)

Env Options

Option	Name	Type	Description
<code>file</code>	File	<code>string</code>	File containing environment. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>
<code>values</code>	Values	<code>map</code>	Environment as key-value pairs.

Trigger - Cron - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	<code>object</code>	

<code>tracked</code>	Tracked	<code>string</code>	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>
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Trigger - Interval - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	<code>object</code>	
<code>tracked</code>	Tracked	<code>string</code>	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger Options

Option	Name	Type	Description
<code>message</code>	Message	<code>object</code>	
<code>cron</code>	Cron	<code>object</code>	
<code>interval</code>	Interval	<code>object</code>	

Batch Fields

Field	Type	Required	Description
<code>uuid-field</code>	<code>field</code> (<code>string</code>)		Field where generated uuid, the unique marker for the group, will be stored. Examples: <code>data_field</code>
<code>invocation-time-field</code>	<code>field</code> (<code>string</code>)		Field where invocation time will be stored. Examples: <code>data_field</code>
<code>completion-time-field</code>	<code>field</code> (<code>string</code>)		Field where completion (end of execution) time will be stored. Examples: <code>data_field</code>
<code>begin-marker-field</code>	<code>field</code> (<code>string</code>)		Field used to mark first event in the group. Examples: <code>data_field</code>
<code>end-marker-field</code>	<code>field</code> (<code>string</code>)		Field used to mark last event in the group. Examples: <code>data_field</code>
<code>line-count-field</code>	<code>field</code> (<code>string</code>)		Field used to store the line count of the batch. Examples: <code>data_field</code>
<code>line-num-field</code>	<code>field</code> (<code>string</code>)		Field used to store the line number of the batch. Examples: <code>data_field</code>

Retry Fields

Field	Type	Required	Description
<code>timeout</code>	<code>time-interval</code> (<code>string</code>)	<input checked="" type="checkbox"/>	timeout (e.g. 500ms, 2s etc. - default is 30). Examples: <code>500ms</code> , <code>2h</code>
<code>retries</code>	<code>number</code> (<code>integer</code>)		number of retries. Examples: <code>42</code> , <code>1.2e-10</code>

Timeout Fields

Field	Type	Required	Description
<code>value</code>	<code>duration (string)</code>	✓	

Result Fields

Field	Type	Required	Description
<code>status-field</code>	<code>field (string)</code>		Field where exit status of command will be stored. Examples: <code>data_field</code>
<code>stderr-field</code>	<code>field (string)</code>		Field where stderr of command will be stored. Examples: <code>data_field</code>
<code>stdout-field</code>	<code>field (string)</code>		Field where stdout of command will be stored. Default: <code>_raw</code> Examples: <code>data_field</code>

Trigger - Message Fields

Field	Type	Required	Description
<code>limit</code> ✓	<code>number (integer)</code>		The number of times to run the input. Examples: <code>42</code> , <code>1.2e-10</code>
<code>filter-kind</code>	<code>Filter Kind</code>		Specifies whether the message originated from the "system" or by the "user". Allowed values: <code>system</code> , <code>user</code> , <code>runtime-artifact-fetch</code> , <code>runtime-artifact-fetch-error</code> , <code>runtime-artifact-clear</code> , <code>runtime-artifact-clear-ack</code> , <code>runtime-artifact-fetch-reply</code> , <code>runtime-artifact-update</code> , <code>runtime-artifact-update-ack</code>
<code>filter-source</code>	<code>[Filter Source[]]</code> (#trigger-message-filter-source-options)		Specifies what process generated the message. Was it a "server", "worker" or "job"? Allowed values: <code>job</code> , <code>worker</code> , <code>server</code>
<code>filter-worker</code>	<code>string</code>		Specifies what worker to select.
<code>filter-job</code>	<code>string</code>		Specifies the name of the job that the message came from.
<code>filter-type</code>	<code>[Filter Type[]]</code> (#trigger-message-filter-type-options)		Specifies that particular types of message ought to match. Allowed values: <code>worker-licensed</code> , <code>worker-unlicensed</code> , <code>variable</code> , <code>variable-deleted</code> , <code>begin-shutting-down-job</code> , <code>begin-shutting-down-server</code> , <code>begin-shutting-down-worker</code> , <code>broadcast-job-thread-state</code> , <code>broadcast-server-thread-state</code> , <code>broadcast-worker-thread-state</code> , ...
<code>filter-tag</code>	<code>string</code>		Specifies that messages matched ought to carry a tag with a particular value. This only matches against user-generated messages.

Trigger - Cron - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (string)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (string)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Cron - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (string)	✓	Window size.
<code>offset</code>	<code>duration</code> (string)		Window offset. Default: <code>0s</code>
<code>start</code>	Window Start		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Cron Fields

Field	Type	Required	Description
<code>cron</code>	<code>cron-expression</code> (string)	✓	The Cron pattern.
<code>immediate</code> ✓	<code>boolean</code> (bool)		Run as soon as invoked, instead of waiting for the specified cron interval. Default: <code>false</code>
<code>random-offset</code>	<code>duration</code> (string)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	Window		Optional window definition when the schedule should only read a bounded range.

Trigger - Interval - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (string)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (string)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window Fields

Field	Type	Required	Description
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size	duration (string)	✓	Window size.
offset	duration (string)		Window offset. Default: 0s
start	Window Start		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: start-time, tracked

Trigger - Interval Fields

Field	Type	Required	Description
duration	duration (string)	✓	Duration to wait between events.
random-offset	duration (string)		Sets a random offset to the schedule, then sticks to it. Default: 0s
window	Window		Optional window definition when the interval should only cover a bounded range.

Payload Mode Options

Value	Name	Description
auto	auto	Auto
json	json	Json
raw	raw	Raw
binary	binary	Binary

Trigger - Message - Filter Kind Options

Value	Name	Description
system	system	System
user	user	User
runtime-artifact-fetch	runtime-artifact-fetch	Runtime Artifact Fetch
runtime-artifact-fetch-error	runtime-artifact-fetch-error	Runtime Artifact Fetch Error
runtime-artifact-clear	runtime-artifact-clear	Runtime Artifact Clear
runtime-artifact-clear-ack	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
runtime-artifact-fetch-reply	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
runtime-artifact-update	runtime-artifact-update	Runtime Artifact Update
runtime-artifact-update-ack	runtime-artifact-update-ack	Runtime Artifact Update Ack

Trigger - Message - Filter Source Options

Value	Name	Description
job	job	Job
worker	worker	Worker
server	server	Server

Trigger - Message - Filter Type Options

Value	Name	Description
worker-licensed	worker-licensed	Worker Licensed
worker-unlicensed	worker-unlicensed	Worker Unlicensed
variable	variable	Variable
variable-deleted	variable-deleted	Variable Deleted
begin-shutting-down-job	begin-shutting-down-job	Begin Shutting Down Job
begin-shutting-down-server	begin-shutting-down-server	Begin Shutting Down Server
begin-shutting-down-worker	begin-shutting-down-worker	Begin Shutting Down Worker
broadcast-job-thread-state	broadcast-job-thread-state	Broadcast Job Thread State
broadcast-server-thread-state	broadcast-server-thread-state	Broadcast Server Thread State
broadcast-worker-thread-state	broadcast-worker-thread-state	Broadcast Worker Thread State
check-job-report-time	check-job-report-time	Check Job Report Time
check-worker-report-time	check-worker-report-time	Check Worker Report Time
de-register-job-thread-dependency	de-register-job-thread-dependency	De Register Job Thread Dependency
de-register-server-thread-dependency	de-register-server-thread-dependency	De Register Server Thread Dependency
de-register-worker-thread-dependency	de-register-worker-thread-dependency	De Register Worker Thread Dependency
deployed-job-active	deployed-job-active	Deployed Job Active
deployed-job-removed	deployed-job-removed	Deployed Job Removed
deployed-job-should-be-running	deployed-job-should-be-running	Deployed Job Should Be Running
deployment-phase	deployment-phase	Deployment Phase
heart-beat	heart-beat	Heart Beat
initialise-internal-state	initialise-internal-state	Initialise Internal State
initialise-job-states	initialise-job-states	Initialise Job States

<code>job-batch-end</code>	job-batch-end	Job Batch End
<code>job-backlog-update</code>	job-backlog-update	Job Backlog Update
<code>job-checkpoint-update</code>	job-checkpoint-update	Job Checkpoint Update
<code>job-deploy-ready</code>	job-deploy-ready	Job Deploy Ready
<code>job-deployed</code>	job-deployed	Job Deployed
<code>job-document-end</code>	job-document-end	Job Document End
<code>job-document-start</code>	job-document-start	Job Document Start
<code>job-errors</code>	job-errors	Job Errors
<code>job-execution-anomaly</code>	job-execution-anomaly	Job Execution Anomaly
<code>job-execution-status</code>	job-execution-status	Job Execution Status
<code>job-emit-custom</code>	job-emit-custom	Job Emit Custom
<code>job-finished</code>	job-finished	Job Finished
<code>job-idle</code>	job-idle	Job Idle
<code>job-initiated</code>	job-initiated	Job Initiated
<code>job-is-processing</code>	job-is-processing	Job Is Processing
<code>job-logs</code>	job-logs	Job Logs
<code>job-metrics</code>	job-metrics	Job Metrics
<code>job-notifications</code>	job-notifications	Job Notifications
<code>job-removing</code>	job-removing	Job Removing
<code>job-removed</code>	job-removed	Job Removed
<code>job-remove-failed</code>	job-remove-failed	Job Remove Failed
<code>job-remove-ready</code>	job-remove-ready	Job Remove Ready
<code>job-replaced</code>	job-replaced	Job Replaced
<code>job-required</code>	job-required	Job Required
<code>job-run-ended</code>	job-run-ended	Job Run Ended
<code>job-runtime-error</code>	job-runtime-error	Job Runtime Error
<code>job-runtime-settings</code>	job-runtime-settings	Job Runtime Settings
<code>job-run-started</code>	job-run-started	Job Run Started
<code>job-running-docker</code>	job-running-docker	Job Running Docker
<code>job-running-script</code>	job-running-script	Job Running Script
<code>job-running-subprocess</code>	job-running-subprocess	Job Running Subprocess
<code>job-running-system-d</code>	job-running-system-d	Job Running System D

job-settings	job-settings	Job Settings
job-step-statistics	job-step-statistics	Job Step Statistics
job-started	job-started	Job Started
job-staged	job-staged	Job Staged
job-state-transition	job-state-transition	Job State Transition
job-shutting-down	job-shutting-down	Job Shutting Down
job-stopping	job-stopping	Job Stopping
job-stopped	job-stopped	Job Stopped
job-timed-out	job-timed-out	Job Timed Out
job-suspicious-silence	job-suspicious-silence	Job Suspicious Silence
job-thread-state	job-thread-state	Job Thread State
job-trace	job-trace	Job Trace
job-trace-requires-samples	job-trace-requires-samples	Job Trace Requires Samples
job-updated	job-updated	Job Updated
job-worker-comms-error	job-worker-comms-error	Job Worker Comms Error
job-unstaged	job-unstaged	Job Unstaged
license-state-changed	license-state-changed	License State Changed
license-validation-failed	license-validation-failed	License Validation Failed
license-validation-ok	license-validation-ok	License Validation Ok
license-volume-violation	license-volume-violation	License Volume Violation
new-license	new-license	New License
override-job-coordinated-shutdown	override-job-coordinated-shutdown	Override Job Coordinated Shutdown
override-server-coordinated-shutdown	override-server-coordinated-shutdown	Override Server Coordinated Shutdown
override-worker-coordinated-shutdown	override-worker-coordinated-shutdown	Override Worker Coordinated Shutdown
register-job-thread-dependency	register-job-thread-dependency	Register Job Thread Dependency
register-server-thread-dependency	register-server-thread-dependency	Register Server Thread Dependency
register-worker-thread-dependency	register-worker-thread-dependency	Register Worker Thread Dependency
run-job-failure	run-job-failure	Run Job Failure
server-logs	server-logs	Server Logs
server-metrics-batch	server-metrics-batch	Server Metrics Batch

server-started	server-started	Server Started
server-starting	server-starting	Server Starting
server-stopping	server-stopping	Server Stopping
server-thread-state	server-thread-state	Server Thread State
server-worker-comms-error	server-worker-comms-error	Server Worker Comms Error
shutdown-jobs	shutdown-jobs	Shutdown Jobs
shutdown-worker	shutdown-worker	Shutdown Worker
system-shutdown	system-shutdown	System Shutdown
update-upstream-sync-for-job	update-upstream-sync-for-job	Update Upstream Sync For Job
update-upstream-sync-for-worker	update-upstream-sync-for-worker	Update Upstream Sync For Worker
update-variable	update-variable	Update Variable
user-alert	user-alert	User Alert
user-generated	user-generated	User Generated
user-notification	user-notification	User Notification
worker-command-for-job	worker-command-for-job	Worker Command For Job
worker-auth-lease-ack	worker-auth-lease-ack	Worker Auth Lease Ack
worker-connected	worker-connected	Worker Connected
worker-created	worker-created	Worker Created
worker-debug-heart-beat	worker-debug-heart-beat	Worker Debug Heart Beat
worker-error	worker-error	Worker Error
worker-first-seen	worker-first-seen	Worker First Seen
worker-heart-beat	worker-heart-beat	Worker Heart Beat
worker-logs	worker-logs	Worker Logs
worker-metrics-batch	worker-metrics-batch	Worker Metrics Batch
worker-offline	worker-offline	Worker Offline
worker-requests-auth-lease	worker-requests-auth-lease	Worker Requests Auth Lease
worker-server-comms-error	worker-server-comms-error	Worker Server Comms Error
worker-settings	worker-settings	Worker Settings
worker-shutdown	worker-shutdown	Worker Shutdown
worker-shutting-down	worker-shutting-down	Worker Shutting Down
worker-started	worker-started	Worker Started
worker-state-uuid	worker-state-uuid	Worker State Uuid

worker-stopping	worker-stopping	Worker Stopping
worker-suspicious-silence	worker-suspicious-silence	Worker Suspicious Silence
worker-system-information	worker-system-information	Worker System Information
worker-thread-state	worker-thread-state	Worker Thread State
worker-updated	worker-updated	Worker Updated
worker-modified	worker-modified	Worker Modified
worker-removed	worker-removed	Worker Removed
context-changed	context-changed	Context Changed
rerender-deployment	rerender-deployment	Rerender Deployment
job-killed	job-killed	Job Killed
message-serviced	message-serviced	Message Serviced
failed-to-service-message	failed-to-service-message	Failed To Service Message
worker-wants-initial-settings	worker-wants-initial-settings	Worker Wants Initial Settings
worker-wants-initial-settings-reply	worker-wants-initial-settings-reply	Worker Wants Initial Settings Reply
worker-wants-deployed-jobs	worker-wants-deployed-jobs	Worker Wants Deployed Jobs
worker-wants-deployed-jobs-reply	worker-wants-deployed-jobs-reply	Worker Wants Deployed Jobs Reply
worker-wants-job-configuration	worker-wants-job-configuration	Worker Wants Job Configuration
worker-wants-job-configuration-reply	worker-wants-job-configuration-reply	Worker Wants Job Configuration Reply
job-wants-dslir-key	job-wants-dslir-key	Job Wants Dslir Key
job-wants-dslir-key-reply	job-wants-dslir-key-reply	Job Wants Dslir Key Reply
worker-wants-dslir-key	worker-wants-dslir-key	Worker Wants Dslir Key
worker-wants-dslir-key-reply	worker-wants-dslir-key-reply	Worker Wants Dslir Key Reply
job-wants-variables	job-wants-variables	Job Wants Variables
job-wants-variables-reply	job-wants-variables-reply	Job Wants Variables Reply
job-wants-credentials	job-wants-credentials	Job Wants Credentials
job-wants-credentials-reply	job-wants-credentials-reply	Job Wants Credentials Reply
job-wants-credentials-error	job-wants-credentials-error	Job Wants Credentials Error
job-wants-secret-variables-reply	job-wants-secret-variables-reply	Job Wants Secret Variables Reply
job-credentials-invalidated	job-credentials-invalidated	Job Credentials Invalidated
aggregator-health	aggregator-health	Aggregator Health

<code>worker-aggregator-health</code>	worker-aggregator-health	Worker Aggregator Health
<code>worker-verification-token</code>	worker-verification-token	Worker Verification Token
<code>worker-requests-verification-token</code>	worker-requests-verification-token	Worker Requests Verification Token
<code>runtime-artifact-update</code>	runtime-artifact-update	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	runtime-artifact-update-ack	Runtime Artifact Update Ack
<code>runtime-artifact-clear</code>	runtime-artifact-clear	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch</code>	runtime-artifact-fetch	Runtime Artifact Fetch
<code>runtime-artifact-fetch-reply</code>	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
<code>runtime-artifact-fetch-error</code>	runtime-artifact-fetch-error	Runtime Artifact Fetch Error

Facebook Graph Poll

Reference for the Facebook Graph Poll component in LyftData's DSL

Source: `reference/dsl/inputs/facebook-graph-poll.md`

Facebook Graph Poll (`facebook-graph-poll`)

Opinionated preset for polling Facebook Graph posts with cursor pagination and AI-prep ready defaults.

Facebook Enterprise edition json

Minimal example

```
input:
facebook-graph-poll: access-token-ref: ~ app-secret-ref: ~ kv-namespace: ~ page-id: ~
```

JSON

```
{
  "input": { "facebook-graph-poll": { "access-token-ref": null, "app-secret-ref": null, "kv-namespace": null, "page-id": null } } }
```

Contents

- [Minimal example](#)
- [Authentication](#)
- [Facebook](#)
- [Pagination](#)
- [Request](#)
- [Response](#)
- [Trigger](#)
- [Schema](#)

Authentication

Authentication

Field	Type	Required	Description
<code>access-token-ref</code> ✓	<code>string</code>	✓	Secret or context ref resolving to a long-lived Page token.
<code>app-secret-ref</code> ✓	<code>string</code>	✓	Secret or context ref resolving to the Facebook App Secret.

Facebook

Facebook

Field	Type	Required	Description
<code>page-id</code> ✓	<code>string</code>	✓	Page ID to harvest. This can be templated for multi-page fan-out.

Pagination

Pagination

Field	Type	Required	Description
<code>kv-namespace</code> ✓	<code>string</code>	✓	Worker KV namespace (<code>tenant:namespace</code>) used for cursor checkpoints.
<code>kv-cursor-key</code> ✓	<code>string</code>		Cursor key stored per page to resume pagination. Default: <code>posts.after</code>
<code>max-pages-per-run</code> ✓	<code>number (integer)</code>		Maximum Graph pages fetched per run (including the first page). Default: <code>5</code> Examples: <code>42</code> , <code>1.2e-10</code>

Request

Request

Field	Type	Required	Description
<code>graph-version</code> ✓	<code>string</code>		Facebook Graph API version (e.g., <code>v19.0</code>). Default: <code>v19.0</code>
<code>fields</code> ✓	<code>string</code>		Comma-delimited set of post fields to request. Default: <code>id,created_time,message,...</code>
<code>page-size</code> ✓	<code>number (integer)</code>		Number of posts fetched per page (<code>limit</code>). Default: <code>100</code> Examples: <code>42</code> , <code>1.2e-10</code>
<code>extra-query</code> ✓	<code>map (string)</code>		Extra query parameters merged into the Graph request (for advanced scenarios).

Response

Response

Field	Type	Required	Description
<code>events-field</code> ✓	<code>field (string)</code>		JSON field that holds the array of posts emitted as events. Default: <code>data</code> Examples: <code>data_field</code>

<code>response-field</code> ✓	<code>field</code> (<code>string</code>)	Output field capturing the raw Graph response for auditing/debugging. Default: <code>graph_raw</code> Examples: <code>data_field</code>
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Trigger

Trigger

Field	Type	Required	Description
<code>trigger</code>	<code>Trigger</code>		When and how to run this poller. If omitted, runs once. Allowed values: <code>message</code> , <code>cron</code> , <code>interval</code>

Schema

- [Trigger - Cron - Window - Window Start Options](#)
- [Trigger - Interval - Window - Window Start Options](#)
- [Trigger Options](#)
- [Trigger - Message Fields](#)
- [Trigger - Cron - Window - Window Start - Start Time Fields](#)
- [Trigger - Cron - Window Fields](#)
- [Trigger - Cron Fields](#)
- [Trigger - Interval - Window - Window Start - Start Time Fields](#)
- [Trigger - Interval - Window Fields](#)
- [Trigger - Interval Fields](#)
- [Extra Query Table](#)
- [Trigger - Message - Filter Kind Options](#)
- [Trigger - Message - Filter Source Options](#)
- [Trigger - Message - Filter Type Options](#)

Trigger - Cron - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	<code>Start Time</code>	<code>object</code>	
<code>tracked</code>	<code>Tracked</code>	<code>string</code>	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	<code>Start Time</code>	<code>object</code>	
<code>tracked</code>	<code>Tracked</code>	<code>string</code>	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger Options

Option	Name	Type	Description
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<code>message</code>	Message	<code>object</code>	
<code>cron</code>	Cron	<code>object</code>	
<code>interval</code>	Interval	<code>object</code>	

Trigger - Message Fields

Field	Type	Required	Description
<code>limit</code> ✓	<code>number</code> (<code>integer</code>)		The number of times to run the input. Examples: <code>42</code> , <code>1.2e-10</code>
<code>filter-kind</code>	<code>Filter Kind</code>		Specifies whether the message originated from the "system" or by the "user". Allowed values: <code>system</code> , <code>user</code> , <code>runtime-artifact-fetch</code> , <code>runtime-artifact-fetch-error</code> , <code>runtime-artifact-clear</code> , <code>runtime-artifact-clear-ack</code> , <code>runtime-artifact-fetch-reply</code> , <code>runtime-artifact-update</code> , <code>runtime-artifact-update-ack</code>
<code>filter-source</code>	[<code>Filter Source[]</code>] (#trigger-message-filter-source-options)		Specifies what process generated the message. Was it a "server", "worker" or "job"? Allowed values: <code>job</code> , <code>worker</code> , <code>server</code>
<code>filter-worker</code>	<code>string</code>		Specifies what worker to select.
<code>filter-job</code>	<code>string</code>		Specifies the name of the job that the message came from.
<code>filter-type</code>	[<code>Filter Type[]</code>] (#trigger-message-filter-type-options)		Specifies that particular types of message ought to match. Allowed values: <code>worker-licensed</code> , <code>worker-unlicensed</code> , <code>variable</code> , <code>variable-deleted</code> , <code>begin-shutting-down-job</code> , <code>begin-shutting-down-server</code> , <code>begin-shutting-down-worker</code> , <code>broadcast-job-thread-state</code> , <code>broadcast-server-thread-state</code> , <code>broadcast-worker-thread-state</code> , ...
<code>filter-tag</code>	<code>string</code>		Specifies that messages matched ought to carry a tag with a particular value. This only matches against user-generated messages.

Trigger - Cron - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (<code>string</code>)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (<code>string</code>)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Cron - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (<code>string</code>)	✓	Window size.
<code>offset</code>	<code>duration</code> (<code>string</code>)		Window offset. Default: <code>0s</code>
<code>start</code>	Window Start		Specify file where timestamp would be stored in order to resume, for when job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Cron Fields

Field	Type	Required	Description
<code>cron</code>	<code>cron-expression</code> (<code>string</code>)	✓	The Cron pattern.
<code>immediate</code> ✓	<code>boolean</code> (<code>bool</code>)		Run as soon as invoked, instead of waiting for the specified cron interval. Default: <code>false</code>
<code>random-offset</code>	<code>duration</code> (<code>string</code>)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	Window		Optional window definition when the schedule should only read a bounded range.

Trigger - Interval - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (<code>string</code>)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (<code>string</code>)	✓	Specify file where timestamp would be stored in order to resume, for when job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (<code>string</code>)	✓	Window size.
<code>offset</code>	<code>duration</code> (<code>string</code>)		Window offset. Default: <code>0s</code>
<code>start</code>	Window Start		Specify file where timestamp would be stored in order to resume, for when job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Interval Fields

Field	Type	Required	Description
<code>duration</code>	<code>duration</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Duration to wait between events.
<code>random-offset</code>	<code>duration</code> (<code>string</code>)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	<code>Window</code>		Optional window definition when the interval should only cover a bounded range.

Extra Query Table

Parameter	Value
<code>param</code>	<code>value</code>

Value format: `templated-text` .

Trigger - Message - Filter Kind Options

Value	Name	Description
<code>system</code>	system	System
<code>user</code>	user	User
<code>runtime-artifact-fetch</code>	runtime-artifact-fetch	Runtime Artifact Fetch
<code>runtime-artifact-fetch-error</code>	runtime-artifact-fetch-error	Runtime Artifact Fetch Error
<code>runtime-artifact-clear</code>	runtime-artifact-clear	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch-reply</code>	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
<code>runtime-artifact-update</code>	runtime-artifact-update	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	runtime-artifact-update-ack	Runtime Artifact Update Ack

Trigger - Message - Filter Source Options

Value	Name	Description
<code>job</code>	job	Job
<code>worker</code>	worker	Worker
<code>server</code>	server	Server

Trigger - Message - Filter Type Options

Value	Name	Description
<code>worker-licensed</code>	worker-licensed	Worker Licensed

worker-unlicensed	worker-unlicensed	Worker Unlicensed
variable	variable	Variable
variable-deleted	variable-deleted	Variable Deleted
begin-shutting-down-job	begin-shutting-down-job	Begin Shutting Down Job
begin-shutting-down-server	begin-shutting-down-server	Begin Shutting Down Server
begin-shutting-down-worker	begin-shutting-down-worker	Begin Shutting Down Worker
broadcast-job-thread-state	broadcast-job-thread-state	Broadcast Job Thread State
broadcast-server-thread-state	broadcast-server-thread-state	Broadcast Server Thread State
broadcast-worker-thread-state	broadcast-worker-thread-state	Broadcast Worker Thread State
check-job-report-time	check-job-report-time	Check Job Report Time
check-worker-report-time	check-worker-report-time	Check Worker Report Time
de-register-job-thread-dependency	de-register-job-thread-dependency	De Register Job Thread Dependency
de-register-server-thread-dependency	de-register-server-thread-dependency	De Register Server Thread Dependency
de-register-worker-thread-dependency	de-register-worker-thread-dependency	De Register Worker Thread Dependency
deployed-job-active	deployed-job-active	Deployed Job Active
deployed-job-removed	deployed-job-removed	Deployed Job Removed
deployed-job-should-be-running	deployed-job-should-be-running	Deployed Job Should Be Running
deployment-phase	deployment-phase	Deployment Phase
heart-beat	heart-beat	Heart Beat
initialise-internal-state	initialise-internal-state	Initialise Internal State
initialise-job-states	initialise-job-states	Initialise Job States
job-batch-end	job-batch-end	Job Batch End
job-backlog-update	job-backlog-update	Job Backlog Update
job-checkpoint-update	job-checkpoint-update	Job Checkpoint Update
job-deploy-ready	job-deploy-ready	Job Deploy Ready
job-deployed	job-deployed	Job Deployed
job-document-end	job-document-end	Job Document End
job-document-start	job-document-start	Job Document Start
job-errors	job-errors	Job Errors
job-execution-anomaly	job-execution-anomaly	Job Execution Anomaly

<code>job-execution-status</code>	<code>job-execution-status</code>	Job Execution Status
<code>job-emit-custom</code>	<code>job-emit-custom</code>	Job Emit Custom
<code>job-finished</code>	<code>job-finished</code>	Job Finished
<code>job-idle</code>	<code>job-idle</code>	Job Idle
<code>job-initiated</code>	<code>job-initiated</code>	Job Initiated
<code>job-is-processing</code>	<code>job-is-processing</code>	Job Is Processing
<code>job-logs</code>	<code>job-logs</code>	Job Logs
<code>job-metrics</code>	<code>job-metrics</code>	Job Metrics
<code>job-notifications</code>	<code>job-notifications</code>	Job Notifications
<code>job-removing</code>	<code>job-removing</code>	Job Removing
<code>job-removed</code>	<code>job-removed</code>	Job Removed
<code>job-remove-failed</code>	<code>job-remove-failed</code>	Job Remove Failed
<code>job-remove-ready</code>	<code>job-remove-ready</code>	Job Remove Ready
<code>job-replaced</code>	<code>job-replaced</code>	Job Replaced
<code>job-required</code>	<code>job-required</code>	Job Required
<code>job-run-ended</code>	<code>job-run-ended</code>	Job Run Ended
<code>job-runtime-error</code>	<code>job-runtime-error</code>	Job Runtime Error
<code>job-runtime-settings</code>	<code>job-runtime-settings</code>	Job Runtime Settings
<code>job-run-started</code>	<code>job-run-started</code>	Job Run Started
<code>job-running-docker</code>	<code>job-running-docker</code>	Job Running Docker
<code>job-running-script</code>	<code>job-running-script</code>	Job Running Script
<code>job-running-subprocess</code>	<code>job-running-subprocess</code>	Job Running Subprocess
<code>job-running-system-d</code>	<code>job-running-system-d</code>	Job Running System D
<code>job-settings</code>	<code>job-settings</code>	Job Settings
<code>job-step-statistics</code>	<code>job-step-statistics</code>	Job Step Statistics
<code>job-started</code>	<code>job-started</code>	Job Started
<code>job-staged</code>	<code>job-staged</code>	Job Staged
<code>job-state-transition</code>	<code>job-state-transition</code>	Job State Transition
<code>job-shutting-down</code>	<code>job-shutting-down</code>	Job Shutting Down
<code>job-stopping</code>	<code>job-stopping</code>	Job Stopping
<code>job-stopped</code>	<code>job-stopped</code>	Job Stopped
<code>job-timed-out</code>	<code>job-timed-out</code>	Job Timed Out

job-suspicious-silence	job-suspicious-silence	Job Suspicious Silence
job-thread-state	job-thread-state	Job Thread State
job-trace	job-trace	Job Trace
job-trace-requires-samples	job-trace-requires-samples	Job Trace Requires Samples
job-updated	job-updated	Job Updated
job-worker-comms-error	job-worker-comms-error	Job Worker Comms Error
job-unstaged	job-unstaged	Job Unstaged
license-state-changed	license-state-changed	License State Changed
license-validation-failed	license-validation-failed	License Validation Failed
license-validation-ok	license-validation-ok	License Validation Ok
license-volume-violation	license-volume-violation	License Volume Violation
new-license	new-license	New License
override-job-coordinated-shutdown	override-job-coordinated-shutdown	Override Job Coordinated Shutdown
override-server-coordinated-shutdown	override-server-coordinated-shutdown	Override Server Coordinated Shutdown
override-worker-coordinated-shutdown	override-worker-coordinated-shutdown	Override Worker Coordinated Shutdown
register-job-thread-dependency	register-job-thread-dependency	Register Job Thread Dependency
register-server-thread-dependency	register-server-thread-dependency	Register Server Thread Dependency
register-worker-thread-dependency	register-worker-thread-dependency	Register Worker Thread Dependency
run-job-failure	run-job-failure	Run Job Failure
server-logs	server-logs	Server Logs
server-metrics-batch	server-metrics-batch	Server Metrics Batch
server-started	server-started	Server Started
server-starting	server-starting	Server Starting
server-stopping	server-stopping	Server Stopping
server-thread-state	server-thread-state	Server Thread State
server-worker-comms-error	server-worker-comms-error	Server Worker Comms Error
shutdown-jobs	shutdown-jobs	Shutdown Jobs
shutdown-worker	shutdown-worker	Shutdown Worker
system-shutdown	system-shutdown	System Shutdown
update-upstream-sync-for-job	update-upstream-sync-for-job	Update Upstream Sync For Job

update-upstream-sync-for-worker	update-upstream-sync-for-worker	Update Upstream Sync For Worker
update-variable	update-variable	Update Variable
user-alert	user-alert	User Alert
user-generated	user-generated	User Generated
user-notification	user-notification	User Notification
worker-command-for-job	worker-command-for-job	Worker Command For Job
worker-auth-lease-ack	worker-auth-lease-ack	Worker Auth Lease Ack
worker-connected	worker-connected	Worker Connected
worker-created	worker-created	Worker Created
worker-debug-heart-beat	worker-debug-heart-beat	Worker Debug Heart Beat
worker-error	worker-error	Worker Error
worker-first-seen	worker-first-seen	Worker First Seen
worker-heart-beat	worker-heart-beat	Worker Heart Beat
worker-logs	worker-logs	Worker Logs
worker-metrics-batch	worker-metrics-batch	Worker Metrics Batch
worker-offline	worker-offline	Worker Offline
worker-requests-auth-lease	worker-requests-auth-lease	Worker Requests Auth Lease
worker-server-comms-error	worker-server-comms-error	Worker Server Comms Error
worker-settings	worker-settings	Worker Settings
worker-shutdown	worker-shutdown	Worker Shutdown
worker-shutting-down	worker-shutting-down	Worker Shutting Down
worker-started	worker-started	Worker Started
worker-state-uuid	worker-state-uuid	Worker State Uuid
worker-stopping	worker-stopping	Worker Stopping
worker-suspicious-silence	worker-suspicious-silence	Worker Suspicious Silence
worker-system-information	worker-system-information	Worker System Information
worker-thread-state	worker-thread-state	Worker Thread State
worker-updated	worker-updated	Worker Updated
worker-modified	worker-modified	Worker Modified
worker-removed	worker-removed	Worker Removed
context-changed	context-changed	Context Changed
rerender-deployment	rerender-deployment	Rerender Deployment

job-killed	job-killed	Job Killed
message-serviced	message-serviced	Message Serviced
failed-to-service-message	failed-to-service-message	Failed To Service Message
worker-wants-initial-settings	worker-wants-initial-settings	Worker Wants Initial Settings
worker-wants-initial-settings-reply	worker-wants-initial-settings-reply	Worker Wants Initial Settings Reply
worker-wants-deployed-jobs	worker-wants-deployed-jobs	Worker Wants Deployed Jobs
worker-wants-deployed-jobs-reply	worker-wants-deployed-jobs-reply	Worker Wants Deployed Jobs Reply
worker-wants-job-configuration	worker-wants-job-configuration	Worker Wants Job Configuration
worker-wants-job-configuration-reply	worker-wants-job-configuration-reply	Worker Wants Job Configuration Reply
job-wants-dslir-key	job-wants-dslir-key	Job Wants Dslir Key
job-wants-dslir-key-reply	job-wants-dslir-key-reply	Job Wants Dslir Key Reply
worker-wants-dslir-key	worker-wants-dslir-key	Worker Wants Dslir Key
worker-wants-dslir-key-reply	worker-wants-dslir-key-reply	Worker Wants Dslir Key Reply
job-wants-variables	job-wants-variables	Job Wants Variables
job-wants-variables-reply	job-wants-variables-reply	Job Wants Variables Reply
job-wants-credentials	job-wants-credentials	Job Wants Credentials
job-wants-credentials-reply	job-wants-credentials-reply	Job Wants Credentials Reply
job-wants-credentials-error	job-wants-credentials-error	Job Wants Credentials Error
job-wants-secret-variables-reply	job-wants-secret-variables-reply	Job Wants Secret Variables Reply
job-credentials-invalidated	job-credentials-invalidated	Job Credentials Invalidated
aggregator-health	aggregator-health	Aggregator Health
worker-aggregator-health	worker-aggregator-health	Worker Aggregator Health
worker-verification-token	worker-verification-token	Worker Verification Token
worker-requests-verification-token	worker-requests-verification-token	Worker Requests Verification Token
runtime-artifact-update	runtime-artifact-update	Runtime Artifact Update
runtime-artifact-update-ack	runtime-artifact-update-ack	Runtime Artifact Update Ack
runtime-artifact-clear	runtime-artifact-clear	Runtime Artifact Clear
runtime-artifact-clear-ack	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
runtime-artifact-fetch	runtime-artifact-fetch	Runtime Artifact Fetch
runtime-artifact-fetch-reply	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply

<code>runtime-artifact-fetch-error</code>	<code>runtime-artifact-fetch-error</code>	Runtime Artifact Fetch Error
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File Store

Reference for the File Store component in LyftData's DSL

Source: `reference/dsl/inputs/file-store.md`

File Store (`file-store`)

Read from a local file system object store.

Block Store File binary json raw

Minimal example

```
input:
file-store: object-names: [] path: ""
```

JSON

```
{
  "input": { "file-store": { "object-names": [], "path": "" } } }
```

Contents

- [Minimal example](#)
- [Fields](#)
- [Behavior](#)
- [Filtering](#)
- [Location](#)
- [Object Properties](#)
- [Processing](#)
- [Reliability](#)
- [Trigger](#)
- [Schema](#)

Fields

Field	Type	Required	Description
<code>fingerprinting-db-path</code>	<code>path</code> (<code>string</code>)		Specify a custom path for the fingerprinting database. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Behavior

Behavior

Field	Type	Required	Description
<code>mode</code>	Block Input Mode		Input behavior: <code>list-and-download</code> , <code>list</code> , or <code>download</code> . Allowed values: <code>list-and-download-objects</code> , <code>list-objects</code> , <code>download-objects</code>
<code>ignore-linebreaks</code> ✓	<code>boolean</code> (<code>bool</code>)		Treat the entire object as a single event. Default: <code>false</code>
<code>payload-mode</code> ✓	Payload Mode		Select how payloads should be interpreted (<code>auto</code> , <code>json</code> , <code>raw</code> , <code>binary</code>). Allowed values: <code>auto</code> , <code>json</code> , <code>raw</code> , <code>binary</code>
<code>timestamp-mode</code>	Timestamp Strategy		Derive a timestamp for this object for filtering purposes based on the selected strategy. Allowed values: <code>none</code> , <code>last-modified</code> , <code>object-name-pattern</code>

Filtering

Filtering

Field	Type	Required	Description
<code>maximum-age</code>	Maximum Age		Ignore objects older than the provided duration (e.g., <code>5m</code> , <code>1h30m</code>). Leave empty to process all visible objects.
<code>include-regex</code>	<code>regex[]</code> (<code>string</code>)		Include objects matching the specified regular expressions. Examples: <code>\d+[A-Z]*</code>
<code>exclude-regex</code>	<code>regex[]</code> (<code>string</code>)		Exclude objects matching the specified regular expressions. Examples: <code>\d+[A-Z]*</code>

Location

Location

Field	Type	Required	Description
<code>path</code>	<code>path</code> (<code>string</code>)	✓	Select filesystem path as root of store. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>
<code>object-names</code>	<code>string[]</code>	✓	Names for objects. If using a list mode these are treated as prefixes.

Object Properties

Object Properties

Field	Type	Required	Description
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<code>object-name-field</code>	<code>field</code> (<code>string</code>)		The field that an object name from an operation should be stored in. Examples: <code>data_field</code>
<code>creation-time-field</code>	<code>field</code> (<code>string</code>)		The field that the object creation time should be stored in. Examples: <code>data_field</code>
<code>last-modified-field</code>	<code>field</code> (<code>string</code>)		The field that the object last modified time should be stored in. Examples: <code>data_field</code>
<code>content-length-field</code>	<code>field</code> (<code>string</code>)		The field that the object content length information should be stored in. Examples: <code>data_field</code>
<code>content-type-field</code>	<code>field</code> (<code>string</code>)		The field that the object content type information should be stored in. Examples: <code>data_field</code>
<code>etag-field</code>	<code>field</code> (<code>string</code>)		The field that the object ETag should be stored in. Examples: <code>data_field</code>
<code>data-field</code>	<code>field</code> (<code>string</code>)		A field that the object data should be nested in. Examples: <code>data_field</code>

Processing

Processing

Field	Type	Required	Description
<code>preprocessors</code>	[<code>Input Preprocessor[]</code>] (#input-preprocessor-options)		Preprocessors (process downloaded data before making it available to the job) these processors will be run in the order they are specified. Allowed values: <code>extension</code> , <code>gzip</code> , <code>parquet</code> , <code>base64</code>

Reliability

Reliability

Field	Type	Required	Description
<code>fingerprinting</code> ✓	<code>boolean</code> (<code>bool</code>)		Enable object fingerprinting to download each object only once, even across restarts. Default: <code>false</code>
<code>maximum-fingerprint-age</code>	<code>duration</code> (<code>string</code>)		How long to retain stored fingerprints before they are eligible for cleanup. Default: <code>30 days</code>
<code>retry</code>	<code>Retry</code>		How to retry failed operations (backoff, max attempts, etc.).

Trigger

Trigger

Field	Type	Required	Description
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trigger	Trigger	Run on the provided cadence; if omitted, this input runs exactly once. Allowed values: <code>message</code> , <code>cron</code> , <code>interval</code>
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Schema

- [Timestamp Strategy Options](#)
- [Trigger - Cron - Window - Window Start Options](#)
- [Trigger - Interval - Window - Window Start Options](#)
- [Trigger Options](#)
- [Maximum Age Fields](#)
- [Retry Fields](#)
- [Trigger - Message Fields](#)
- [Trigger - Cron - Window - Window Start - Start Time Fields](#)
- [Trigger - Cron - Window Fields](#)
- [Trigger - Cron Fields](#)
- [Trigger - Interval - Window - Window Start - Start Time Fields](#)
- [Trigger - Interval - Window Fields](#)
- [Trigger - Interval Fields](#)
- [Block Input Mode Options](#)
- [Payload Mode Options](#)
- [Input Preprocessor Options](#)
- [Trigger - Message - Filter Kind Options](#)
- [Trigger - Message - Filter Source Options](#)
- [Trigger - Message - Filter Type Options](#)

Timestamp Strategy Options

Option	Name	Type	Description
<code>none</code>	None	<code>map</code>	The default mode, do not filter based on timestamps.
<code>last-modified</code>	Last Modified	<code>map</code>	Filter object on the last-modified timestamp reported by the service.
<code>object-name-pattern</code>	Object Name Pattern	<code>string</code>	Filter blobs on the timestamp derived from the object name for example: <code>relevant-name-pattern: =(?P[\\d]{4,4})-(?P<m>[\\d]{2,2})-(?P<d>[\\d]{2,2})/</code>

Trigger - Cron - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	<code>object</code>	
<code>tracked</code>	Tracked	<code>string</code>	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window - Window Start Options

Option	Name	Type	Description
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<code>start-time</code>	Start Time	<code>object</code>	
<code>tracked</code>	Tracked	<code>string</code>	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger Options

Option	Name	Type	Description
<code>message</code>	Message	<code>object</code>	
<code>cron</code>	Cron	<code>object</code>	
<code>interval</code>	Interval	<code>object</code>	

Maximum Age Fields

Field	Type	Required	Description
<code>value</code>	<code>duration (string)</code>	<input checked="" type="checkbox"/>	

Retry Fields

Field	Type	Required	Description
<code>timeout</code>	<code>time-interval (string)</code>	<input checked="" type="checkbox"/>	timeout (e.g. 500ms, 2s etc. - default is 30). Examples: <code>500ms</code> , <code>2h</code>
<code>retries</code>	<code>number (integer)</code>		number of retries. Examples: <code>42</code> , <code>1.2e-10</code>

Trigger - Message Fields

Field	Type	Required	Description
<code>limit</code> ✓	<code>number (integer)</code>		The number of times to run the input. Examples: <code>42</code> , <code>1.2e-10</code>
<code>filter-kind</code>	<code>Filter Kind</code>		Specifies whether the message originated from the "system" or by the "user". Allowed values: <code>system</code> , <code>user</code> , <code>runtime-artifact-fetch</code> , <code>runtime-artifact-fetch-error</code> , <code>runtime-artifact-clear</code> , <code>runtime-artifact-clear-ack</code> , <code>runtime-artifact-fetch-reply</code> , <code>runtime-artifact-update</code> , <code>runtime-artifact-update-ack</code>
<code>filter-source</code>	<code>[Filter Source[]]</code> (#trigger-message-filter-source-options)		Specifies what process generated the message. Was it a "server", "worker" or "job"? Allowed values: <code>job</code> , <code>worker</code> , <code>server</code>
<code>filter-worker</code>	<code>string</code>		Specifies what worker to select.
<code>filter-job</code>	<code>string</code>		Specifies the name of the job that the message came from.

<code>filter-type</code>	<code>[Filter Type[]]</code> (#trigger-message-filter-type-options)		Specifies that particular types of message ought to match. Allowed values: <code>worker-licensed</code> , <code>worker-unlicensed</code> , <code>variable</code> , <code>variable-deleted</code> , <code>begin-shutting-down-job</code> , <code>begin-shutting-down-server</code> , <code>begin-shutting-down-worker</code> , <code>broadcast-job-thread-state</code> , <code>broadcast-server-thread-state</code> , <code>broadcast-worker-thread-state</code> , ...
<code>filter-tag</code>	<code>string</code>		Specifies that messages matched ought to carry a tag with a particular value. This only matches against user-generated messages.

Trigger - Cron - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (<code>string</code>)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (<code>string</code>)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Cron - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (<code>string</code>)	✓	Window size.
<code>offset</code>	<code>duration</code> (<code>string</code>)		Window offset. Default: <code>0s</code>
<code>start</code>	<code>Window Start</code>		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Cron Fields

Field	Type	Required	Description
<code>cron</code>	<code>cron-expression</code> (<code>string</code>)	✓	The Cron pattern.
<code>immediate</code> ✓	<code>boolean</code> (<code>bool</code>)		Run as soon as invoked, instead of waiting for the specified cron interval. Default: <code>false</code>
<code>random-offset</code>	<code>duration</code> (<code>string</code>)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	<code>Window</code>		Optional window definition when the schedule should only read a bounded range.

Trigger - Interval - Window - Window Start - Start Time Fields

Field	Type	Required	Description
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<code>start-time</code>	<code>time-format</code> (string)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (string)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (string)	✓	Window size.
<code>offset</code>	<code>duration</code> (string)		Window offset. Default: <code>0s</code>
<code>start</code>	Window Start		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Interval Fields

Field	Type	Required	Description
<code>duration</code>	<code>duration</code> (string)	✓	Duration to wait between events.
<code>random-offset</code>	<code>duration</code> (string)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	Window		Optional window definition when the interval should only cover a bounded range.

Block Input Mode Options

Value	Name	Description
<code>list-and-download-objects</code>	<code>list-and-download-objects</code>	List Objects and Download
<code>list-objects</code>	<code>list-objects</code>	List Objects
<code>download-objects</code>	<code>download-objects</code>	Download Given Objects

Payload Mode Options

Value	Name	Description
<code>auto</code>	<code>auto</code>	Auto
<code>json</code>	<code>json</code>	Json
<code>raw</code>	<code>raw</code>	Raw
<code>binary</code>	<code>binary</code>	Binary

Input Preprocessor Options

Value	Name	Description
<code>extension</code>	extension	Preprocess the object or blob based on the extension of the object or blob name (.gz, .parquet)
<code>gzip</code>	gzip	UnGzip the received data
<code>parquet</code>	parquet	Extract the received data as JSON rows from a parquet file
<code>base64</code>	base64	Encode the binary data as base64

Trigger - Message - Filter Kind Options

Value	Name	Description
<code>system</code>	system	System
<code>user</code>	user	User
<code>runtime-artifact-fetch</code>	runtime-artifact-fetch	Runtime Artifact Fetch
<code>runtime-artifact-fetch-error</code>	runtime-artifact-fetch-error	Runtime Artifact Fetch Error
<code>runtime-artifact-clear</code>	runtime-artifact-clear	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch-reply</code>	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
<code>runtime-artifact-update</code>	runtime-artifact-update	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	runtime-artifact-update-ack	Runtime Artifact Update Ack

Trigger - Message - Filter Source Options

Value	Name	Description
<code>job</code>	job	Job
<code>worker</code>	worker	Worker
<code>server</code>	server	Server

Trigger - Message - Filter Type Options

Value	Name	Description
<code>worker-licensed</code>	worker-licensed	Worker Licensed
<code>worker-unlicensed</code>	worker-unlicensed	Worker Unlicensed
<code>variable</code>	variable	Variable
<code>variable-deleted</code>	variable-deleted	Variable Deleted

<code>begin-shutting-down-job</code>	<code>begin-shutting-down-job</code>	Begin Shutting Down Job
<code>begin-shutting-down-server</code>	<code>begin-shutting-down-server</code>	Begin Shutting Down Server
<code>begin-shutting-down-worker</code>	<code>begin-shutting-down-worker</code>	Begin Shutting Down Worker
<code>broadcast-job-thread-state</code>	<code>broadcast-job-thread-state</code>	Broadcast Job Thread State
<code>broadcast-server-thread-state</code>	<code>broadcast-server-thread-state</code>	Broadcast Server Thread State
<code>broadcast-worker-thread-state</code>	<code>broadcast-worker-thread-state</code>	Broadcast Worker Thread State
<code>check-job-report-time</code>	<code>check-job-report-time</code>	Check Job Report Time
<code>check-worker-report-time</code>	<code>check-worker-report-time</code>	Check Worker Report Time
<code>de-register-job-thread-dependency</code>	<code>de-register-job-thread-dependency</code>	De Register Job Thread Dependency
<code>de-register-server-thread-dependency</code>	<code>de-register-server-thread-dependency</code>	De Register Server Thread Dependency
<code>de-register-worker-thread-dependency</code>	<code>de-register-worker-thread-dependency</code>	De Register Worker Thread Dependency
<code>deployed-job-active</code>	<code>deployed-job-active</code>	Deployed Job Active
<code>deployed-job-removed</code>	<code>deployed-job-removed</code>	Deployed Job Removed
<code>deployed-job-should-be-running</code>	<code>deployed-job-should-be-running</code>	Deployed Job Should Be Running
<code>deployment-phase</code>	<code>deployment-phase</code>	Deployment Phase
<code>heart-beat</code>	<code>heart-beat</code>	Heart Beat
<code>initialise-internal-state</code>	<code>initialise-internal-state</code>	Initialise Internal State
<code>initialise-job-states</code>	<code>initialise-job-states</code>	Initialise Job States
<code>job-batch-end</code>	<code>job-batch-end</code>	Job Batch End
<code>job-backlog-update</code>	<code>job-backlog-update</code>	Job Backlog Update
<code>job-checkpoint-update</code>	<code>job-checkpoint-update</code>	Job Checkpoint Update
<code>job-deploy-ready</code>	<code>job-deploy-ready</code>	Job Deploy Ready
<code>job-deployed</code>	<code>job-deployed</code>	Job Deployed
<code>job-document-end</code>	<code>job-document-end</code>	Job Document End
<code>job-document-start</code>	<code>job-document-start</code>	Job Document Start
<code>job-errors</code>	<code>job-errors</code>	Job Errors
<code>job-execution-anomaly</code>	<code>job-execution-anomaly</code>	Job Execution Anomaly
<code>job-execution-status</code>	<code>job-execution-status</code>	Job Execution Status
<code>job-emit-custom</code>	<code>job-emit-custom</code>	Job Emit Custom
<code>job-finished</code>	<code>job-finished</code>	Job Finished

<code>job-idle</code>	<code>job-idle</code>	Job Idle
<code>job-initiated</code>	<code>job-initiated</code>	Job Initiated
<code>job-is-processing</code>	<code>job-is-processing</code>	Job Is Processing
<code>job-logs</code>	<code>job-logs</code>	Job Logs
<code>job-metrics</code>	<code>job-metrics</code>	Job Metrics
<code>job-notifications</code>	<code>job-notifications</code>	Job Notifications
<code>job-removing</code>	<code>job-removing</code>	Job Removing
<code>job-removed</code>	<code>job-removed</code>	Job Removed
<code>job-remove-failed</code>	<code>job-remove-failed</code>	Job Remove Failed
<code>job-remove-ready</code>	<code>job-remove-ready</code>	Job Remove Ready
<code>job-replaced</code>	<code>job-replaced</code>	Job Replaced
<code>job-required</code>	<code>job-required</code>	Job Required
<code>job-run-ended</code>	<code>job-run-ended</code>	Job Run Ended
<code>job-runtime-error</code>	<code>job-runtime-error</code>	Job Runtime Error
<code>job-runtime-settings</code>	<code>job-runtime-settings</code>	Job Runtime Settings
<code>job-run-started</code>	<code>job-run-started</code>	Job Run Started
<code>job-running-docker</code>	<code>job-running-docker</code>	Job Running Docker
<code>job-running-script</code>	<code>job-running-script</code>	Job Running Script
<code>job-running-subprocess</code>	<code>job-running-subprocess</code>	Job Running Subprocess
<code>job-running-system-d</code>	<code>job-running-system-d</code>	Job Running System D
<code>job-settings</code>	<code>job-settings</code>	Job Settings
<code>job-step-statistics</code>	<code>job-step-statistics</code>	Job Step Statistics
<code>job-started</code>	<code>job-started</code>	Job Started
<code>job-staged</code>	<code>job-staged</code>	Job Staged
<code>job-state-transition</code>	<code>job-state-transition</code>	Job State Transition
<code>job-shutting-down</code>	<code>job-shutting-down</code>	Job Shutting Down
<code>job-stopping</code>	<code>job-stopping</code>	Job Stopping
<code>job-stopped</code>	<code>job-stopped</code>	Job Stopped
<code>job-timed-out</code>	<code>job-timed-out</code>	Job Timed Out
<code>job-suspicious-silence</code>	<code>job-suspicious-silence</code>	Job Suspicious Silence
<code>job-thread-state</code>	<code>job-thread-state</code>	Job Thread State
<code>job-trace</code>	<code>job-trace</code>	Job Trace

job-trace-requires-samples	job-trace-requires-samples	Job Trace Requires Samples
job-updated	job-updated	Job Updated
job-worker-comms-error	job-worker-comms-error	Job Worker Comms Error
job-unstaged	job-unstaged	Job Unstaged
license-state-changed	license-state-changed	License State Changed
license-validation-failed	license-validation-failed	License Validation Failed
license-validation-ok	license-validation-ok	License Validation Ok
license-volume-violation	license-volume-violation	License Volume Violation
new-license	new-license	New License
override-job-coordinated-shutdown	override-job-coordinated-shutdown	Override Job Coordinated Shutdown
override-server-coordinated-shutdown	override-server-coordinated-shutdown	Override Server Coordinated Shutdown
override-worker-coordinated-shutdown	override-worker-coordinated-shutdown	Override Worker Coordinated Shutdown
register-job-thread-dependency	register-job-thread-dependency	Register Job Thread Dependency
register-server-thread-dependency	register-server-thread-dependency	Register Server Thread Dependency
register-worker-thread-dependency	register-worker-thread-dependency	Register Worker Thread Dependency
run-job-failure	run-job-failure	Run Job Failure
server-logs	server-logs	Server Logs
server-metrics-batch	server-metrics-batch	Server Metrics Batch
server-started	server-started	Server Started
server-starting	server-starting	Server Starting
server-stopping	server-stopping	Server Stopping
server-thread-state	server-thread-state	Server Thread State
server-worker-comms-error	server-worker-comms-error	Server Worker Comms Error
shutdown-jobs	shutdown-jobs	Shutdown Jobs
shutdown-worker	shutdown-worker	Shutdown Worker
system-shutdown	system-shutdown	System Shutdown
update-upstream-sync-for-job	update-upstream-sync-for-job	Update Upstream Sync For Job
update-upstream-sync-for-worker	update-upstream-sync-for-worker	Update Upstream Sync For Worker
update-variable	update-variable	Update Variable
user-alert	user-alert	User Alert

<code>user-generated</code>	user-generated	User Generated
<code>user-notification</code>	user-notification	User Notification
<code>worker-command-for-job</code>	worker-command-for-job	Worker Command For Job
<code>worker-auth-lease-ack</code>	worker-auth-lease-ack	Worker Auth Lease Ack
<code>worker-connected</code>	worker-connected	Worker Connected
<code>worker-created</code>	worker-created	Worker Created
<code>worker-debug-heart-beat</code>	worker-debug-heart-beat	Worker Debug Heart Beat
<code>worker-error</code>	worker-error	Worker Error
<code>worker-first-seen</code>	worker-first-seen	Worker First Seen
<code>worker-heart-beat</code>	worker-heart-beat	Worker Heart Beat
<code>worker-logs</code>	worker-logs	Worker Logs
<code>worker-metrics-batch</code>	worker-metrics-batch	Worker Metrics Batch
<code>worker-offline</code>	worker-offline	Worker Offline
<code>worker-requests-auth-lease</code>	worker-requests-auth-lease	Worker Requests Auth Lease
<code>worker-server-comms-error</code>	worker-server-comms-error	Worker Server Comms Error
<code>worker-settings</code>	worker-settings	Worker Settings
<code>worker-shutdown</code>	worker-shutdown	Worker Shutdown
<code>worker-shutting-down</code>	worker-shutting-down	Worker Shutting Down
<code>worker-started</code>	worker-started	Worker Started
<code>worker-state-uuid</code>	worker-state-uuid	Worker State Uuid
<code>worker-stopping</code>	worker-stopping	Worker Stopping
<code>worker-suspicious-silence</code>	worker-suspicious-silence	Worker Suspicious Silence
<code>worker-system-information</code>	worker-system-information	Worker System Information
<code>worker-thread-state</code>	worker-thread-state	Worker Thread State
<code>worker-updated</code>	worker-updated	Worker Updated
<code>worker-modified</code>	worker-modified	Worker Modified
<code>worker-removed</code>	worker-removed	Worker Removed
<code>context-changed</code>	context-changed	Context Changed
<code>rerender-deployment</code>	rerender-deployment	Rerender Deployment
<code>job-killed</code>	job-killed	Job Killed
<code>message-serviced</code>	message-serviced	Message Serviced
<code>failed-to-service-message</code>	failed-to-service-message	Failed To Service Message

<code>worker-wants-initial-settings</code>	<code>worker-wants-initial-settings</code>	Worker Wants Initial Settings
<code>worker-wants-initial-settings-reply</code>	<code>worker-wants-initial-settings-reply</code>	Worker Wants Initial Settings Reply
<code>worker-wants-deployed-jobs</code>	<code>worker-wants-deployed-jobs</code>	Worker Wants Deployed Jobs
<code>worker-wants-deployed-jobs-reply</code>	<code>worker-wants-deployed-jobs-reply</code>	Worker Wants Deployed Jobs Reply
<code>worker-wants-job-configuration</code>	<code>worker-wants-job-configuration</code>	Worker Wants Job Configuration
<code>worker-wants-job-configuration-reply</code>	<code>worker-wants-job-configuration-reply</code>	Worker Wants Job Configuration Reply
<code>job-wants-dslir-key</code>	<code>job-wants-dslir-key</code>	Job Wants Dslir Key
<code>job-wants-dslir-key-reply</code>	<code>job-wants-dslir-key-reply</code>	Job Wants Dslir Key Reply
<code>worker-wants-dslir-key</code>	<code>worker-wants-dslir-key</code>	Worker Wants Dslir Key
<code>worker-wants-dslir-key-reply</code>	<code>worker-wants-dslir-key-reply</code>	Worker Wants Dslir Key Reply
<code>job-wants-variables</code>	<code>job-wants-variables</code>	Job Wants Variables
<code>job-wants-variables-reply</code>	<code>job-wants-variables-reply</code>	Job Wants Variables Reply
<code>job-wants-credentials</code>	<code>job-wants-credentials</code>	Job Wants Credentials
<code>job-wants-credentials-reply</code>	<code>job-wants-credentials-reply</code>	Job Wants Credentials Reply
<code>job-wants-credentials-error</code>	<code>job-wants-credentials-error</code>	Job Wants Credentials Error
<code>job-wants-secret-variables-reply</code>	<code>job-wants-secret-variables-reply</code>	Job Wants Secret Variables Reply
<code>job-credentials-invalidated</code>	<code>job-credentials-invalidated</code>	Job Credentials Invalidated
<code>aggregator-health</code>	<code>aggregator-health</code>	Aggregator Health
<code>worker-aggregator-health</code>	<code>worker-aggregator-health</code>	Worker Aggregator Health
<code>worker-verification-token</code>	<code>worker-verification-token</code>	Worker Verification Token
<code>worker-requests-verification-token</code>	<code>worker-requests-verification-token</code>	Worker Requests Verification Token
<code>runtime-artifact-update</code>	<code>runtime-artifact-update</code>	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	<code>runtime-artifact-update-ack</code>	Runtime Artifact Update Ack
<code>runtime-artifact-clear</code>	<code>runtime-artifact-clear</code>	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	<code>runtime-artifact-clear-ack</code>	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch</code>	<code>runtime-artifact-fetch</code>	Runtime Artifact Fetch
<code>runtime-artifact-fetch-reply</code>	<code>runtime-artifact-fetch-reply</code>	Runtime Artifact Fetch Reply
<code>runtime-artifact-fetch-error</code>	<code>runtime-artifact-fetch-error</code>	Runtime Artifact Fetch Error

Log Files

Reference for the Log Files component in LyftData's DSL

Source: [reference/dsl/inputs/files.md](#)

Log Files (`files`)

Monitor one or more log files for new lines.

File binary json raw

Minimal example

```
input:
files: path: ""
```

JSON

```
{
  "input": { "files": { "path": "" } } }
```

Contents

- [Minimal example](#)
- [Behavior](#)
- [Filtering](#)
- [Location](#)
- [Object Properties](#)
- [Performance](#)
- [Reliability](#)
- [Schema](#)

Behavior

Behavior

Field	Type	Required	Description
<code>encoding</code>	<code>encoding</code> (<code>string</code>)		the text encoding for the monitored files. Default: <code>UTF-8</code> Examples: <code>UTF-8</code>
<code>stop-reading-after</code> ✓	<code>boolean</code> (<code>bool</code>)		do not wait for new files. Default: <code>false</code>

<code>ignore-line-breaks</code> ✓	boolean (bool)		consume each file as one event. Default: <code>false</code>
<code>payload-mode</code> ✓	Payload Mode		Select how file content should be interpreted (<code>auto</code> , <code>json</code> , <code>raw</code> , <code>binary</code>). Default: <code>auto</code> Allowed values: <code>auto</code> , <code>json</code> , <code>raw</code> , <code>binary</code>
<code>remove-after</code>	number (integer)		remove files that are done reading after this period (seconds). Examples: <code>42</code> , <code>1.2e-10</code>
<code>oldest-first</code> ✓	boolean (bool)		default is youngest first. Default: <code>false</code>
<code>file-basename</code> ✓	boolean (bool)		the <code>file-path-field</code> path will be the basename (e.g. <code>'/path/frodo.txt'</code> becomes just <code>'frodo'</code>). Default: <code>false</code>
<code>start-at-beginning</code> ✓	boolean (bool)		ignore stored checkpoints and re-read all specified files. Default: <code>false</code>
<code>json</code> ✓	boolean (bool)		assume lines are already JSON. Default: <code>false</code>

Filtering

Filtering

Field	Type	Required	Description
<code>ignore-older-than</code>	number (integer)		ignore files older than this (epoch time in seconds). Examples: <code>42</code> , <code>1.2e-10</code>

Location

Location

Field	Type	Required	Description
<code>path</code>	path (string)	✓	a path with wildcards identifying files to be read. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>
<code>include</code>	path[] (string)		any other paths to be included. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>
<code>exclude</code>	path[] (string)		paths to be excluded. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Object Properties

Object Properties

Field	Type	Required	Description
-------	------	----------	-------------

<code>file-path-field</code>	<code>field</code> (<code>string</code>)	fill this field with the file we are currently reading from. Examples: <code>data_field</code>
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Performance

Performance

Field	Type	Required	Description
<code>glob-minimum-cooldown</code> ✓	<code>number</code> (<code>integer</code>)		pause after scanning for new files (in milliseconds). Default: <code>300</code> Examples: <code>42</code> , <code>1.2e-10</code>
<code>max-read-size</code> ✓	<code>number</code> (<code>integer</code>)		will not attempt to read files larger than this. Default: <code>100MB</code> Examples: <code>42</code> , <code>1.2e-10</code>
<code>max-line-size</code> ✓	<code>number</code> (<code>integer</code>)		will not attempt to read lines longer than this. Default: <code>1MB</code> Examples: <code>42</code> , <code>1.2e-10</code>

Reliability

Reliability

Field	Type	Required	Description
<code>fingerprinting</code>	<code>Fingerprint Strategy</code>		File fingerprinting strategy. Default: <code>dev-inode</code> Allowed values: <code>checksum</code> , <code>first-line-checksum</code> , <code>dev-inode</code>

Schema

- [Fingerprint Strategy Options](#)
- [Fingerprint Strategy - Checksum Fields](#)
- [Fingerprint Strategy - First Line Checksum Fields](#)
- [Payload Mode Options](#)
- [Fingerprint Strategy - Dev Inode Options](#)

Fingerprint Strategy Options

Option	Name	Type	Description
<code>checksum</code>	<code>Checksum</code>	<code>object</code>	Fingerprint strategy is set to a checksum of the start of the file determined by the bytes that are skipped (<code>ignored-header-bytes</code>) and then the fingerprint size in bytes.
<code>first-line-checksum</code>	<code>First Line Checksum</code>	<code>object</code>	Fingerprint strategy that uses the first line of the file to detect if a file has changed.
<code>dev-inode</code>	<code>Dev Inode</code>	<code>symbol</code>	Fingerprint strategy is set to the inode of the file causing the file monitor to detect new files when a file is recreated. Allowed values: <code>fingerprinter-dev-inode</code>

Fingerprint Strategy - Checksum Fields

Field	Type	Required	Description
<code>fingerprint-bytes</code> ✓	number (integer)		The number of bytes to use for the fingerprint, starts after <code>ignore-header-bytes</code> if specified. Examples: <code>42</code> , <code>1.2e-10</code>
<code>ignored-header-bytes</code> ✓	number (integer)		The number of bytes from the start of the file to ignore before starting the fingerprint. Examples: <code>42</code> , <code>1.2e-10</code>

Fingerprint Strategy - First Line Checksum Fields

Field	Type	Required	Description
<code>max-line-length</code> ✓	number (integer)		The maximum number of bytes to read from the first line of the file to calculate the fingerprint. Examples: <code>42</code> , <code>1.2e-10</code>

Payload Mode Options

Value	Name	Description
<code>auto</code>	auto	Auto
<code>json</code>	json	Json
<code>raw</code>	raw	Raw
<code>binary</code>	binary	Binary

Fingerprint Strategy - Dev Inode Options

Value	Name	Description
<code>fingerprinter-dev-inode</code>	fingerprinter-dev-inode	Fingerprint strategy is set to the inode of the file causing the file monitor to detect new files when a file is recreated

FTP

Reference for the FTP component in LyftData's DSL

Source: <reference/dsl/inputs/ftp.md>

FTP (`ftp`)

Poll remote FTP/SFTP/TFTP servers for new files.

File Utility Enterprise edition binary json raw

Minimal example

```
input:
ftp: endpoint: host: ~ path: ~
```

JSON

```
{
  "input": { "ftp": { "endpoint": { "host": null }, "path": null } } }
```

Contents

- [Minimal example](#)
- [Fields](#)
- [Schema](#)

Fields

Field	Type	Required	Description
<code>trigger</code>	<code>Trigger</code>		Allowed values: <code>message</code> , <code>cron</code> , <code>interval</code>
<code>retry</code>	<code>Retry</code>		
<code>protocol</code>	<code>Protocol</code>		Allowed values: <code>ftp</code> , <code>ftps-explicit</code> , <code>ftps-implicit</code> , <code>sftp</code> , <code>tftp</code>
<code>endpoint</code>	<code>Endpoint</code>	<input checked="" type="checkbox"/>	
<code>credentials</code>	<code>FTP Credentials</code>		Allowed values: <code>username-password</code> , <code>tls-client-cert</code> , <code>ssh-key</code> , <code>anonymous</code> , <code>none</code>
<code>working-directory</code>	<code>string</code>		

<code>path</code>	<code>string</code>	✓	
<code>include-regex</code>	<code>regex[] (string)</code>		Examples: <code>\d+[A-Z]*</code>
<code>exclude-regex</code>	<code>regex[] (string)</code>		Examples: <code>\d+[A-Z]*</code>
<code>recursive</code> ✓	<code>boolean (bool)</code>		Default: <code>false</code>
<code>metadata</code>	<code>Metadata</code>		
<code>payload-mode</code> ✓	<code>Payload Mode</code>		Allowed values: <code>auto</code> , <code>json</code> , <code>raw</code> , <code>binary</code>
<code>concurrency</code>	<code>number (integer)</code>		Examples: <code>42</code> , <code>1.2e-10</code>
<code>delete-after-download</code> ✓	<code>boolean (bool)</code>		Default: <code>false</code>
<code>preprocessors</code>	<code>[Input Preprocessor[]]</code> (#input-preprocessor-options)		Allowed values: <code>extension</code> , <code>gzip</code> , <code>parquet</code> , <code>base64</code>
<code>tmp-suffix</code>	<code>string</code>		
<code>passive</code> ✓	<code>boolean (bool)</code>		
<code>ftps</code>	<code>Ftps</code>		
<code>sftp</code>	<code>Sftp</code>		
<code>tftp</code>	<code>Tftp</code>		
<code>stream-buffer-size</code>	<code>number (integer)</code>		Examples: <code>42</code> , <code>1.2e-10</code>
<code>resume-checkpoint-variable</code>	<code>string</code>		

Schema

- [Trigger - Cron - Window - Window Start Options](#)
- [Trigger - Interval - Window - Window Start Options](#)
- [Trigger Options](#)
- [FTP Credentials Options](#)
- [Sftp - SFTP Host Key Verification Options](#)
- [Trigger - Message Fields](#)
- [Trigger - Cron - Window - Window Start - Start Time Fields](#)
- [Trigger - Cron - Window Fields](#)
- [Trigger - Cron Fields](#)
- [Trigger - Interval - Window - Window Start - Start Time Fields](#)
- [Trigger - Interval - Window Fields](#)
- [Trigger - Interval Fields](#)
- [Retry Fields](#)
- [Endpoint Fields](#)
- [FTP Credentials - Username Password Fields](#)
- [FTP Credentials - Tls Client Cert Fields](#)
- [FTP Credentials - Ssh Key Fields](#)

- [Metadata Fields](#)
- [Ftps Fields](#)
- [Sftp - SFTP Host Key Verification - Known Hosts File Fields](#)
- [Sftp - SFTP Host Key Verification - Fingerprint Fields](#)
- [Sftp Fields](#)
- [Tftp Fields](#)
- [Trigger - Message - Filter Kind Options](#)
- [Trigger - Message - Filter Source Options](#)
- [Trigger - Message - Filter Type Options](#)
- [Protocol Options](#)
- [Payload Mode Options](#)
- [Input Preprocessor Options](#)

Trigger - Cron - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	object	
<code>tracked</code>	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	object	
<code>tracked</code>	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger Options

Option	Name	Type	Description
<code>message</code>	Message	object	
<code>cron</code>	Cron	object	
<code>interval</code>	Interval	object	

FTP Credentials Options

Option	Name	Type	Description
<code>username-password</code>	Username Password	object	
<code>tls-client-cert</code>	Tls Client Cert	object	
<code>ssh-key</code>	Ssh Key	object	
<code>anonymous</code>	Anonymous	map	
<code>none</code>	None	map	

Sftp - SFTP Host Key Verification Options

Option	Name	Type	Description
<code>known-hosts-file</code>	Known Hosts File	object	
<code>fingerprint</code>	Fingerprint	object	
<code>accept-new</code>	Accept New	map	

Trigger - Message Fields

Field	Type	Required	Description
<code>limit</code> ✓	number (integer)		The number of times to run the input. Examples: <code>42</code> , <code>1.2e-10</code>
<code>filter-kind</code>	Filter Kind		Specifies whether the message originated from the "system" or by the "user". Allowed values: <code>system</code> , <code>user</code> , <code>runtime-artifact-fetch</code> , <code>runtime-artifact-fetch-error</code> , <code>runtime-artifact-clear</code> , <code>runtime-artifact-clear-ack</code> , <code>runtime-artifact-fetch-reply</code> , <code>runtime-artifact-update</code> , <code>runtime-artifact-update-ack</code>
<code>filter-source</code>	[Filter Source[]] (#trigger-message-filter-source-options)		Specifies what process generated the message. Was it a "server", "worker" or "job"? Allowed values: <code>job</code> , <code>worker</code> , <code>server</code>
<code>filter-worker</code>	string		Specifies what worker to select.
<code>filter-job</code>	string		Specifies the name of the job that the message came from.
<code>filter-type</code>	[Filter Type[]] (#trigger-message-filter-type-options)		Specifies that particular types of message ought to match. Allowed values: <code>worker-licensed</code> , <code>worker-unlicensed</code> , <code>variable</code> , <code>variable-deleted</code> , <code>begin-shutting-down-job</code> , <code>begin-shutting-down-server</code> , <code>begin-shutting-down-worker</code> , <code>broadcast-job-thread-state</code> , <code>broadcast-server-thread-state</code> , <code>broadcast-worker-thread-state</code> , ...
<code>filter-tag</code>	string		Specifies that messages matched ought to carry a tag with a particular value. This only matches against user-generated messages.

Trigger - Cron - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	time-format (string)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	path (string)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Cron - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Window size.
<code>offset</code>	<code>duration</code> (<code>string</code>)		Window offset. Default: <code>0s</code>
<code>start</code>	Window Start		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Cron Fields

Field	Type	Required	Description
<code>cron</code>	<code>cron-expression</code> (<code>string</code>)	<input checked="" type="checkbox"/>	The Cron pattern.
<code>immediate</code> ✓	<code>boolean</code> (<code>bool</code>)		Run as soon as invoked, instead of waiting for the specified cron interval. Default: <code>false</code>
<code>random-offset</code>	<code>duration</code> (<code>string</code>)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	Window		Optional window definition when the schedule should only read a bounded range.

Trigger - Interval - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Window size.
<code>offset</code>	<code>duration</code> (<code>string</code>)		Window offset. Default: <code>0s</code>
<code>start</code>	Window Start		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Interval Fields

Field	Type	Required	Description
<code>duration</code>	<code>duration</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Duration to wait between events.
<code>random-offset</code>	<code>duration</code> (<code>string</code>)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	<code>Window</code>		Optional window definition when the interval should only cover a bounded range.

Retry Fields

Field	Type	Required	Description
<code>timeout</code>	<code>time-interval</code> (<code>string</code>)	<input checked="" type="checkbox"/>	timeout (e.g. 500ms, 2s etc. - default is 30). Examples: <code>500ms</code> , <code>2h</code>
<code>retries</code>	<code>number</code> (<code>integer</code>)		number of retries. Examples: <code>42</code> , <code>1.2e-10</code>

Endpoint Fields

Field	Type	Required	Description
<code>host</code>	<code>string</code>	<input checked="" type="checkbox"/>	
<code>port</code>	<code>number</code> (<code>integer</code>)		Examples: <code>42</code> , <code>1.2e-10</code>
<code>proxy</code>	<code>string</code>		
<code>bastion-host</code>	<code>string</code>		

FTP Credentials - Username Password Fields

Field	Type	Required	Description
<code>username-variable</code>	<code>string</code>	<input checked="" type="checkbox"/>	
<code>password-variable</code>	<code>string</code>	<input checked="" type="checkbox"/>	

FTP Credentials - Tls Client Cert Fields

Field	Type	Required	Description
<code>username-variable</code>	<code>string</code>	<input checked="" type="checkbox"/>	
<code>password-variable</code>	<code>string</code>	<input checked="" type="checkbox"/>	
<code>client-certificate-variable</code>	<code>string</code>	<input checked="" type="checkbox"/>	
<code>client-key-variable</code>	<code>string</code>	<input checked="" type="checkbox"/>	

FTP Credentials - Ssh Key Fields

Field	Type	Required	Description
<code>username-variable</code>	<code>string</code>	<input checked="" type="checkbox"/>	
<code>private-key-variable</code>	<code>string</code>	<input checked="" type="checkbox"/>	
<code>passphrase-variable</code>	<code>string</code>		

Metadata Fields

Field	Type	Required	Description
<code>object-name-field</code>	<code>field (string)</code>		Examples: <code>data_field</code>
<code>content-length-field</code>	<code>field (string)</code>		Examples: <code>data_field</code>
<code>last-modified-field</code>	<code>field (string)</code>		Examples: <code>data_field</code>
<code>checksum-field</code>	<code>field (string)</code>		Examples: <code>data_field</code>
<code>content-type-field</code>	<code>field (string)</code>		Examples: <code>data_field</code>
<code>etag-field</code>	<code>field (string)</code>		Examples: <code>data_field</code>

Ftps Fields

Field	Type	Required	Description
<code>ca-certificate-variable</code>	<code>string</code>		
<code>client-certificate-variable</code>	<code>string</code>		
<code>client-key-variable</code>	<code>string</code>		
<code>cipher-list</code>	<code>string</code>		
<code>verify-peer</code> ✓	<code>boolean (bool)</code>		Default: <code>false</code>
<code>min-tls-version</code>	<code>string</code>		

Sftp - SFTP Host Key Verification - Known Hosts File Fields

Field	Type	Required	Description
<code>path</code>	<code>path (string)</code>	<input checked="" type="checkbox"/>	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Sftp - SFTP Host Key Verification - Fingerprint Fields

Field	Type	Required	Description
<code>fingerprint</code>	<code>string</code>	<input checked="" type="checkbox"/>	

Sftp Fields

Field	Type	Required	Description
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<code>agent-forwarding</code> ✓	<code>boolean (bool)</code>		Default: <code>false</code>
<code>known-hosts-path</code>	<code>string</code>		
<code>host-key-verification</code>	SFTP Host Key Verification		Allowed values: <code>known-hosts-file</code> , <code>fingerprint</code> , <code>accept-new</code>
<code>jump-host</code>	<code>string</code>		

Tftp Fields

Field	Type	Required	Description
<code>block-size</code>	<code>number (integer)</code>		Examples: <code>42</code> , <code>1.2e-10</code>
<code>timeout-ms</code>	<code>number (integer)</code>		Examples: <code>42</code> , <code>1.2e-10</code>
<code>max-retries</code>	<code>number</code>		
<code>file-name</code>	<code>string</code>		

Trigger - Message - Filter Kind Options

Value	Name	Description
<code>system</code>	system	System
<code>user</code>	user	User
<code>runtime-artifact-fetch</code>	runtime-artifact-fetch	Runtime Artifact Fetch
<code>runtime-artifact-fetch-error</code>	runtime-artifact-fetch-error	Runtime Artifact Fetch Error
<code>runtime-artifact-clear</code>	runtime-artifact-clear	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch-reply</code>	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
<code>runtime-artifact-update</code>	runtime-artifact-update	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	runtime-artifact-update-ack	Runtime Artifact Update Ack

Trigger - Message - Filter Source Options

Value	Name	Description
<code>job</code>	job	Job
<code>worker</code>	worker	Worker
<code>server</code>	server	Server

Trigger - Message - Filter Type Options

Value	Name	Description
worker-licensed	worker-licensed	Worker Licensed
worker-unlicensed	worker-unlicensed	Worker Unlicensed
variable	variable	Variable
variable-deleted	variable-deleted	Variable Deleted
begin-shutting-down-job	begin-shutting-down-job	Begin Shutting Down Job
begin-shutting-down-server	begin-shutting-down-server	Begin Shutting Down Server
begin-shutting-down-worker	begin-shutting-down-worker	Begin Shutting Down Worker
broadcast-job-thread-state	broadcast-job-thread-state	Broadcast Job Thread State
broadcast-server-thread-state	broadcast-server-thread-state	Broadcast Server Thread State
broadcast-worker-thread-state	broadcast-worker-thread-state	Broadcast Worker Thread State
check-job-report-time	check-job-report-time	Check Job Report Time
check-worker-report-time	check-worker-report-time	Check Worker Report Time
de-register-job-thread-dependency	de-register-job-thread-dependency	De Register Job Thread Dependency
de-register-server-thread-dependency	de-register-server-thread-dependency	De Register Server Thread Dependency
de-register-worker-thread-dependency	de-register-worker-thread-dependency	De Register Worker Thread Dependency
deployed-job-active	deployed-job-active	Deployed Job Active
deployed-job-removed	deployed-job-removed	Deployed Job Removed
deployed-job-should-be-running	deployed-job-should-be-running	Deployed Job Should Be Running
deployment-phase	deployment-phase	Deployment Phase
heart-beat	heart-beat	Heart Beat
initialise-internal-state	initialise-internal-state	Initialise Internal State
initialise-job-states	initialise-job-states	Initialise Job States
job-batch-end	job-batch-end	Job Batch End
job-backlog-update	job-backlog-update	Job Backlog Update
job-checkpoint-update	job-checkpoint-update	Job Checkpoint Update
job-deploy-ready	job-deploy-ready	Job Deploy Ready
job-deployed	job-deployed	Job Deployed
job-document-end	job-document-end	Job Document End
job-document-start	job-document-start	Job Document Start

<code>job-errors</code>	<code>job-errors</code>	Job Errors
<code>job-execution-anomaly</code>	<code>job-execution-anomaly</code>	Job Execution Anomaly
<code>job-execution-status</code>	<code>job-execution-status</code>	Job Execution Status
<code>job-emit-custom</code>	<code>job-emit-custom</code>	Job Emit Custom
<code>job-finished</code>	<code>job-finished</code>	Job Finished
<code>job-idle</code>	<code>job-idle</code>	Job Idle
<code>job-initiated</code>	<code>job-initiated</code>	Job Initiated
<code>job-is-processing</code>	<code>job-is-processing</code>	Job Is Processing
<code>job-logs</code>	<code>job-logs</code>	Job Logs
<code>job-metrics</code>	<code>job-metrics</code>	Job Metrics
<code>job-notifications</code>	<code>job-notifications</code>	Job Notifications
<code>job-removing</code>	<code>job-removing</code>	Job Removing
<code>job-removed</code>	<code>job-removed</code>	Job Removed
<code>job-remove-failed</code>	<code>job-remove-failed</code>	Job Remove Failed
<code>job-remove-ready</code>	<code>job-remove-ready</code>	Job Remove Ready
<code>job-replaced</code>	<code>job-replaced</code>	Job Replaced
<code>job-required</code>	<code>job-required</code>	Job Required
<code>job-run-ended</code>	<code>job-run-ended</code>	Job Run Ended
<code>job-runtime-error</code>	<code>job-runtime-error</code>	Job Runtime Error
<code>job-runtime-settings</code>	<code>job-runtime-settings</code>	Job Runtime Settings
<code>job-run-started</code>	<code>job-run-started</code>	Job Run Started
<code>job-running-docker</code>	<code>job-running-docker</code>	Job Running Docker
<code>job-running-script</code>	<code>job-running-script</code>	Job Running Script
<code>job-running-subprocess</code>	<code>job-running-subprocess</code>	Job Running Subprocess
<code>job-running-system-d</code>	<code>job-running-system-d</code>	Job Running System D
<code>job-settings</code>	<code>job-settings</code>	Job Settings
<code>job-step-statistics</code>	<code>job-step-statistics</code>	Job Step Statistics
<code>job-started</code>	<code>job-started</code>	Job Started
<code>job-staged</code>	<code>job-staged</code>	Job Staged
<code>job-state-transition</code>	<code>job-state-transition</code>	Job State Transition
<code>job-shutting-down</code>	<code>job-shutting-down</code>	Job Shutting Down
<code>job-stopping</code>	<code>job-stopping</code>	Job Stopping

job-stopped	job-stopped	Job Stopped
job-timed-out	job-timed-out	Job Timed Out
job-suspicious-silence	job-suspicious-silence	Job Suspicious Silence
job-thread-state	job-thread-state	Job Thread State
job-trace	job-trace	Job Trace
job-trace-requires-samples	job-trace-requires-samples	Job Trace Requires Samples
job-updated	job-updated	Job Updated
job-worker-comms-error	job-worker-comms-error	Job Worker Comms Error
job-unstaged	job-unstaged	Job Unstaged
license-state-changed	license-state-changed	License State Changed
license-validation-failed	license-validation-failed	License Validation Failed
license-validation-ok	license-validation-ok	License Validation Ok
license-volume-violation	license-volume-violation	License Volume Violation
new-license	new-license	New License
override-job-coordinated-shutdown	override-job-coordinated-shutdown	Override Job Coordinated Shutdown
override-server-coordinated-shutdown	override-server-coordinated-shutdown	Override Server Coordinated Shutdown
override-worker-coordinated-shutdown	override-worker-coordinated-shutdown	Override Worker Coordinated Shutdown
register-job-thread-dependency	register-job-thread-dependency	Register Job Thread Dependency
register-server-thread-dependency	register-server-thread-dependency	Register Server Thread Dependency
register-worker-thread-dependency	register-worker-thread-dependency	Register Worker Thread Dependency
run-job-failure	run-job-failure	Run Job Failure
server-logs	server-logs	Server Logs
server-metrics-batch	server-metrics-batch	Server Metrics Batch
server-started	server-started	Server Started
server-starting	server-starting	Server Starting
server-stopping	server-stopping	Server Stopping
server-thread-state	server-thread-state	Server Thread State
server-worker-comms-error	server-worker-comms-error	Server Worker Comms Error
shutdown-jobs	shutdown-jobs	Shutdown Jobs
shutdown-worker	shutdown-worker	Shutdown Worker

system-shutdown	system-shutdown	System Shutdown
update-upstream-sync-for-job	update-upstream-sync-for-job	Update Upstream Sync For Job
update-upstream-sync-for-worker	update-upstream-sync-for-worker	Update Upstream Sync For Worker
update-variable	update-variable	Update Variable
user-alert	user-alert	User Alert
user-generated	user-generated	User Generated
user-notification	user-notification	User Notification
worker-command-for-job	worker-command-for-job	Worker Command For Job
worker-auth-lease-ack	worker-auth-lease-ack	Worker Auth Lease Ack
worker-connected	worker-connected	Worker Connected
worker-created	worker-created	Worker Created
worker-debug-heart-beat	worker-debug-heart-beat	Worker Debug Heart Beat
worker-error	worker-error	Worker Error
worker-first-seen	worker-first-seen	Worker First Seen
worker-heart-beat	worker-heart-beat	Worker Heart Beat
worker-logs	worker-logs	Worker Logs
worker-metrics-batch	worker-metrics-batch	Worker Metrics Batch
worker-offline	worker-offline	Worker Offline
worker-requests-auth-lease	worker-requests-auth-lease	Worker Requests Auth Lease
worker-server-comms-error	worker-server-comms-error	Worker Server Comms Error
worker-settings	worker-settings	Worker Settings
worker-shutdown	worker-shutdown	Worker Shutdown
worker-shutting-down	worker-shutting-down	Worker Shutting Down
worker-started	worker-started	Worker Started
worker-state-uuid	worker-state-uuid	Worker State Uuid
worker-stopping	worker-stopping	Worker Stopping
worker-suspicious-silence	worker-suspicious-silence	Worker Suspicious Silence
worker-system-information	worker-system-information	Worker System Information
worker-thread-state	worker-thread-state	Worker Thread State
worker-updated	worker-updated	Worker Updated
worker-modified	worker-modified	Worker Modified
worker-removed	worker-removed	Worker Removed

context-changed	context-changed	Context Changed
rerender-deployment	rerender-deployment	Rerender Deployment
job-killed	job-killed	Job Killed
message-serviced	message-serviced	Message Serviced
failed-to-service-message	failed-to-service-message	Failed To Service Message
worker-wants-initial-settings	worker-wants-initial-settings	Worker Wants Initial Settings
worker-wants-initial-settings-reply	worker-wants-initial-settings-reply	Worker Wants Initial Settings Reply
worker-wants-deployed-jobs	worker-wants-deployed-jobs	Worker Wants Deployed Jobs
worker-wants-deployed-jobs-reply	worker-wants-deployed-jobs-reply	Worker Wants Deployed Jobs Reply
worker-wants-job-configuration	worker-wants-job-configuration	Worker Wants Job Configuration
worker-wants-job-configuration-reply	worker-wants-job-configuration-reply	Worker Wants Job Configuration Reply
job-wants-dslir-key	job-wants-dslir-key	Job Wants Dslir Key
job-wants-dslir-key-reply	job-wants-dslir-key-reply	Job Wants Dslir Key Reply
worker-wants-dslir-key	worker-wants-dslir-key	Worker Wants Dslir Key
worker-wants-dslir-key-reply	worker-wants-dslir-key-reply	Worker Wants Dslir Key Reply
job-wants-variables	job-wants-variables	Job Wants Variables
job-wants-variables-reply	job-wants-variables-reply	Job Wants Variables Reply
job-wants-credentials	job-wants-credentials	Job Wants Credentials
job-wants-credentials-reply	job-wants-credentials-reply	Job Wants Credentials Reply
job-wants-credentials-error	job-wants-credentials-error	Job Wants Credentials Error
job-wants-secret-variables-reply	job-wants-secret-variables-reply	Job Wants Secret Variables Reply
job-credentials-invalidated	job-credentials-invalidated	Job Credentials Invalidated
aggregator-health	aggregator-health	Aggregator Health
worker-aggregator-health	worker-aggregator-health	Worker Aggregator Health
worker-verification-token	worker-verification-token	Worker Verification Token
worker-requests-verification-token	worker-requests-verification-token	Worker Requests Verification Token
runtime-artifact-update	runtime-artifact-update	Runtime Artifact Update
runtime-artifact-update-ack	runtime-artifact-update-ack	Runtime Artifact Update Ack
runtime-artifact-clear	runtime-artifact-clear	Runtime Artifact Clear
runtime-artifact-clear-ack	runtime-artifact-clear-ack	Runtime Artifact Clear Ack

<code>runtime-artifact-fetch</code>	runtime-artifact-fetch	Runtime Artifact Fetch
<code>runtime-artifact-fetch-reply</code>	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
<code>runtime-artifact-fetch-error</code>	runtime-artifact-fetch-error	Runtime Artifact Fetch Error

Protocol Options

Value	Name	Description
<code>ftp</code>	ftp	Ftp
<code>ftps-explicit</code>	ftps-explicit	Ftps Explicit
<code>ftps-implicit</code>	ftps-implicit	Ftps Implicit
<code>sftp</code>	sftp	Sftp
<code>tftp</code>	tftp	Tftp

Payload Mode Options

Value	Name	Description
<code>auto</code>	auto	Auto
<code>json</code>	json	Json
<code>raw</code>	raw	Raw
<code>binary</code>	binary	Binary

Input Preprocessor Options

Value	Name	Description
<code>extension</code>	extension	Preprocess the object or blob based on the extension of the object or blob name (.gz, .parquet)
<code>gzip</code>	gzip	UnGzip the received data
<code>parquet</code>	parquet	Extract the received data as JSON rows from a parquet file
<code>base64</code>	base64	Encode the binary data as base64

Google Cloud Storage

Reference for the Google Cloud Storage component in LyftData's DSL

Source: [reference/dsl/inputs/gcs.md](#)

Google Cloud Storage (`gcs`)

Read objects from Google Cloud Storage.

Block Store Cloud Enterprise edition binary json raw

Minimal example

```
input:
gcs: bucket-name: ~ credentials: storage-url: ~ object-names: []
```

JSON

```
{
  "input": { "gcs": { "bucket-name": null, "credentials": { "storage-url": null }, "object-names": [] } } }
```

Contents

- [Minimal example](#)
- [Fields](#)
- [Authentication](#)
- [Behavior](#)
- [Filtering](#)
- [Location](#)
- [Object Properties](#)
- [Processing](#)
- [Reliability](#)
- [Trigger](#)
- [Schema](#)

Fields

Field	Type	Required	Description
<code>payload-mode</code> ✓	Payload Mode		Select how payloads should be interpreted (<code>auto</code> , <code>json</code> , <code>raw</code> , <code>binary</code>). Allowed values: <code>auto</code> , <code>json</code> , <code>raw</code> , <code>binary</code>

Authentication

Authentication

Field	Type	Required	Description
<code>credentials</code>	<code>Credentials</code>	✓	Google Cloud credentials (service account JSON, workload identity, etc.). Supports literal values or <code>context</code> interpolation via <code>PossibleContextString</code> . Allowed values: <code>storage-url</code> , <code>service-account</code> , <code>application-credentials</code>

Behavior

Behavior

Field	Type	Required	Description
<code>mode</code>	<code>Block Input Mode</code>		Input behavior: use <code>list-and-download</code> , <code>list</code> , or <code>download</code> depending on whether you want to enumerate objects, fetch contents, or download specific names directly. Allowed values: <code>list-and-download-objects</code> , <code>list-objects</code> , <code>download-objects</code>
<code>ignore-linebreaks</code> ✓	<code>boolean</code> (<code>bool</code>)		Treat the entire object as a single event. When <code>false</code> , objects are split on newlines unless <code>json=true</code> instructs the runtime to parse JSON arrays. Default: <code>false</code>
<code>timestamp-mode</code>	<code>Timestamp Strategy</code>		Derive a timestamp for this blob for filtering purposes based on the selected strategy (e.g., object creation time vs. last modification). Allowed values: <code>none</code> , <code>last-modified</code> , <code>object-name-pattern</code>

Filtering

Filtering

Field	Type	Required	Description
<code>maximum-age</code>	<code>Maximum Age</code>		Ignore objects older than the provided duration (e.g., <code>5m</code> , <code>1h30m</code>). Leave empty to process all visible objects.
<code>include-regex</code>	<code>regex[]</code> (<code>string</code>)		Include objects matching the specified regular expressions. Examples: <code>\d+[A-Z]*</code>
<code>exclude-regex</code>	<code>regex[]</code> (<code>string</code>)		Exclude objects matching the specified regular expressions. Examples: <code>\d+[A-Z]*</code>

Location

Location

Field	Type	Required	Description
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<code>bucket-name</code>	<code>string</code>	✓	The GCS bucket to read from.
<code>object-names</code>	<code>string[]</code>	✓	Object names or prefixes to target. Leave empty to consider every object exposed by the selected mode—take care with large buckets.

Object Properties

Object Properties

Field	Type	Required	Description
<code>object-name-field</code>	<code>field (string)</code>		The field that the object name from an operation should be stored in. Examples: <code>data_field</code>
<code>creation-time-field</code>	<code>field (string)</code>		The field that the object creation time should be stored in. Examples: <code>data_field</code>
<code>last-modified-field</code>	<code>field (string)</code>		The field that the object last modified time should be stored in. Examples: <code>data_field</code>
<code>content-length-field</code>	<code>field (string)</code>		The field that the object content length information should be stored in. Examples: <code>data_field</code>
<code>content-type-field</code>	<code>field (string)</code>		The field that the object content type information should be stored in. Examples: <code>data_field</code>
<code>etag-field</code>	<code>field (string)</code>		The field that the object ETag should be stored in. Examples: <code>data_field</code>
<code>data-field</code>	<code>field (string)</code>		A field to take the object data (default is to merge fields if possible). Examples: <code>data_field</code>

Processing

Processing

Field	Type	Required	Description
<code>preprocessors</code>	<code>[Input Preprocessor[]]</code> (#input-preprocessor-options)		Preprocessors (process downloaded data before making it available to the job) these processors will be run in the order they are specified. Allowed values: <code>extension</code> , <code>gzip</code> , <code>parquet</code> , <code>base64</code>

Reliability

Reliability

Field	Type	Required	Description
<code>fingerprinting</code> ✓	<code>boolean (bool)</code>		Enable object fingerprinting to download each object only once, even across restarts. Default: <code>false</code>

<code>maximum-fingerprint-age</code>	<code>duration</code> (<code>string</code>)	How long to retain stored fingerprints before they are eligible for cleanup. Default: <code>30 days</code>
<code>retry</code>	<code>Retry</code>	How to retry failed operations (backoff, max attempts, etc.).

Trigger

Trigger

Field	Type	Required	Description
<code>trigger</code>	<code>Trigger</code>		Run on the provided cadence; if omitted, this input runs exactly once. Allowed values: <code>message</code> , <code>cron</code> , <code>interval</code>

Schema

- [Credentials - Service Account Options](#)
- [Credentials - Application Credentials Options](#)
- [Credentials Options](#)
- [Timestamp Strategy Options](#)
- [Trigger - Cron - Window - Window Start Options](#)
- [Trigger - Interval - Window - Window Start Options](#)
- [Trigger Options](#)
- [Maximum Age Fields](#)
- [Retry Fields](#)
- [Trigger - Message Fields](#)
- [Trigger - Cron - Window - Window Start - Start Time Fields](#)
- [Trigger - Cron - Window Fields](#)
- [Trigger - Cron Fields](#)
- [Trigger - Interval - Window - Window Start - Start Time Fields](#)
- [Trigger - Interval - Window Fields](#)
- [Trigger - Interval Fields](#)
- [Payload Mode Options](#)
- [Block Input Mode Options](#)
- [Input Preprocessor Options](#)
- [Trigger - Message - Filter Kind Options](#)
- [Trigger - Message - Filter Source Options](#)
- [Trigger - Message - Filter Type Options](#)

Credentials - Service Account Options

Option	Name	Type	Description
<code>path</code>	Path	<code>string</code>	Service Account File location. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>
<code>key</code>	Key	<code>string</code>	

Credentials - Application Credentials Options

Option	Name	Type	Description
<code>path</code>	Path	string	Application Credential File Location. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>
<code>key</code>	Key	string	Application Credential in JSON format.

Credentials Options

Option	Name	Type	Description
<code>storage-url</code>	Storage Url	string	URL in the form <code>gs://<bucket>/path</code> .
<code>service-account</code>	Service Account	one_of	Service Account credentials. Allowed values: <code>path</code> , <code>key</code>
<code>application-credentials</code>	Application Credentials	one_of	Application credentials. Allowed values: <code>path</code> , <code>key</code>

Timestamp Strategy Options

Option	Name	Type	Description
<code>none</code>	None	map	The default mode, do not filter based on timestamps.
<code>last-modified</code>	Last Modified	map	Filter object on the last-modified timestamp reported by the service.
<code>object-name-pattern</code>	Object Name Pattern	string	Filter blobs on the timestamp derived from the object name for example: relevant-name-pattern: <code>=(?P[\d]{4,4})-(?P<m>[\d]{2,2})-(?P<d>[\d]{2,2})/</code> .

Trigger - Cron - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	object	
<code>tracked</code>	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	object	
<code>tracked</code>	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger Options

Option	Name	Type	Description
<code>message</code>	Message	object	

<code>cron</code>	Cron	<code>object</code>	
<code>interval</code>	Interval	<code>object</code>	

Maximum Age Fields

Field	Type	Required	Description
<code>value</code>	<code>duration (string)</code>	<input checked="" type="checkbox"/>	

Retry Fields

Field	Type	Required	Description
<code>timeout</code>	<code>time-interval (string)</code>	<input checked="" type="checkbox"/>	timeout (e.g. 500ms, 2s etc. - default is 30). Examples: <code>500ms</code> , <code>2h</code>
<code>retries</code>	<code>number (integer)</code>		number of retries. Examples: <code>42</code> , <code>1.2e-10</code>

Trigger - Message Fields

Field	Type	Required	Description
<code>limit</code> ✓	<code>number (integer)</code>		The number of times to run the input. Examples: <code>42</code> , <code>1.2e-10</code>
<code>filter-kind</code>	<code>Filter Kind</code>		Specifies whether the message originated from the "system" or by the "user". Allowed values: <code>system</code> , <code>user</code> , <code>runtime-artifact-fetch</code> , <code>runtime-artifact-fetch-error</code> , <code>runtime-artifact-clear</code> , <code>runtime-artifact-clear-ack</code> , <code>runtime-artifact-fetch-reply</code> , <code>runtime-artifact-update</code> , <code>runtime-artifact-update-ack</code>
<code>filter-source</code>	<code>[Filter Source[]] (#trigger-message-filter-source-options)</code>		Specifies what process generated the message. Was it a "server", "worker" or "job"? Allowed values: <code>job</code> , <code>worker</code> , <code>server</code>
<code>filter-worker</code>	<code>string</code>		Specifies what worker to select.
<code>filter-job</code>	<code>string</code>		Specifies the name of the job that the message came from.
<code>filter-type</code>	<code>[Filter Type[]] (#trigger-message-filter-type-options)</code>		Specifies that particular types of message ought to match. Allowed values: <code>worker-licensed</code> , <code>worker-unlicensed</code> , <code>variable</code> , <code>variable-deleted</code> , <code>begin-shutting-down-job</code> , <code>begin-shutting-down-server</code> , <code>begin-shutting-down-worker</code> , <code>broadcast-job-thread-state</code> , <code>broadcast-server-thread-state</code> , <code>broadcast-worker-thread-state</code> , ...
<code>filter-tag</code>	<code>string</code>		Specifies that messages matched ought to carry a tag with a particular value. This only matches against user-generated messages.

Trigger - Cron - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (string)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (string)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Cron - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (string)	✓	Window size.
<code>offset</code>	<code>duration</code> (string)		Window offset. Default: <code>0s</code>
<code>start</code>	Window Start		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Cron Fields

Field	Type	Required	Description
<code>cron</code>	<code>cron-expression</code> (string)	✓	The Cron pattern.
<code>immediate</code> ✓	<code>boolean</code> (bool)		Run as soon as invoked, instead of waiting for the specified cron interval. Default: <code>false</code>
<code>random-offset</code>	<code>duration</code> (string)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	Window		Optional window definition when the schedule should only read a bounded range.

Trigger - Interval - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (string)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (string)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window Fields

Field	Type	Required	Description
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size	duration (string)	✓	Window size.
offset	duration (string)		Window offset. Default: 0s
start	Window Start		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: start-time, tracked

Trigger - Interval Fields

Field	Type	Required	Description
duration	duration (string)	✓	Duration to wait between events.
random-offset	duration (string)		Sets a random offset to the schedule, then sticks to it. Default: 0s
window	Window		Optional window definition when the interval should only cover a bounded range.

Payload Mode Options

Value	Name	Description
auto	auto	Auto
json	json	Json
raw	raw	Raw
binary	binary	Binary

Block Input Mode Options

Value	Name	Description
list-and-download-objects	list-and-download-objects	List Objects and Download
list-objects	list-objects	List Objects
download-objects	download-objects	Download Given Objects

Input Preprocessor Options

Value	Name	Description
extension	extension	Preprocess the object or blob based on the extension of the object or blob name (.gz, .parquet)
gzip	gzip	UnGzip the received data
parquet	parquet	Extract the received data as JSON rows from a parquet file

base64	base64	Encode the binary data as base64
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Trigger - Message - Filter Kind Options

Value	Name	Description
system	system	System
user	user	User
runtime-artifact-fetch	runtime-artifact-fetch	Runtime Artifact Fetch
runtime-artifact-fetch-error	runtime-artifact-fetch-error	Runtime Artifact Fetch Error
runtime-artifact-clear	runtime-artifact-clear	Runtime Artifact Clear
runtime-artifact-clear-ack	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
runtime-artifact-fetch-reply	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
runtime-artifact-update	runtime-artifact-update	Runtime Artifact Update
runtime-artifact-update-ack	runtime-artifact-update-ack	Runtime Artifact Update Ack

Trigger - Message - Filter Source Options

Value	Name	Description
job	job	Job
worker	worker	Worker
server	server	Server

Trigger - Message - Filter Type Options

Value	Name	Description
worker-licensed	worker-licensed	Worker Licensed
worker-unlicensed	worker-unlicensed	Worker Unlicensed
variable	variable	Variable
variable-deleted	variable-deleted	Variable Deleted
begin-shutting-down-job	begin-shutting-down-job	Begin Shutting Down Job
begin-shutting-down-server	begin-shutting-down-server	Begin Shutting Down Server
begin-shutting-down-worker	begin-shutting-down-worker	Begin Shutting Down Worker
broadcast-job-thread-state	broadcast-job-thread-state	Broadcast Job Thread State
broadcast-server-thread-state	broadcast-server-thread-state	Broadcast Server Thread State
broadcast-worker-thread-state	broadcast-worker-thread-state	Broadcast Worker Thread State

check-job-report-time	check-job-report-time	Check Job Report Time
check-worker-report-time	check-worker-report-time	Check Worker Report Time
de-register-job-thread-dependency	de-register-job-thread-dependency	De Register Job Thread Dependency
de-register-server-thread-dependency	de-register-server-thread-dependency	De Register Server Thread Dependency
de-register-worker-thread-dependency	de-register-worker-thread-dependency	De Register Worker Thread Dependency
deployed-job-active	deployed-job-active	Deployed Job Active
deployed-job-removed	deployed-job-removed	Deployed Job Removed
deployed-job-should-be-running	deployed-job-should-be-running	Deployed Job Should Be Running
deployment-phase	deployment-phase	Deployment Phase
heart-beat	heart-beat	Heart Beat
initialise-internal-state	initialise-internal-state	Initialise Internal State
initialise-job-states	initialise-job-states	Initialise Job States
job-batch-end	job-batch-end	Job Batch End
job-backlog-update	job-backlog-update	Job Backlog Update
job-checkpoint-update	job-checkpoint-update	Job Checkpoint Update
job-deploy-ready	job-deploy-ready	Job Deploy Ready
job-deployed	job-deployed	Job Deployed
job-document-end	job-document-end	Job Document End
job-document-start	job-document-start	Job Document Start
job-errors	job-errors	Job Errors
job-execution-anomaly	job-execution-anomaly	Job Execution Anomaly
job-execution-status	job-execution-status	Job Execution Status
job-emit-custom	job-emit-custom	Job Emit Custom
job-finished	job-finished	Job Finished
job-idle	job-idle	Job Idle
job-initiated	job-initiated	Job Initiated
job-is-processing	job-is-processing	Job Is Processing
job-logs	job-logs	Job Logs
job-metrics	job-metrics	Job Metrics
job-notifications	job-notifications	Job Notifications

<code>job-removing</code>	job-removing	Job Removing
<code>job-removed</code>	job-removed	Job Removed
<code>job-remove-failed</code>	job-remove-failed	Job Remove Failed
<code>job-remove-ready</code>	job-remove-ready	Job Remove Ready
<code>job-replaced</code>	job-replaced	Job Replaced
<code>job-required</code>	job-required	Job Required
<code>job-run-ended</code>	job-run-ended	Job Run Ended
<code>job-runtime-error</code>	job-runtime-error	Job Runtime Error
<code>job-runtime-settings</code>	job-runtime-settings	Job Runtime Settings
<code>job-run-started</code>	job-run-started	Job Run Started
<code>job-running-docker</code>	job-running-docker	Job Running Docker
<code>job-running-script</code>	job-running-script	Job Running Script
<code>job-running-subprocess</code>	job-running-subprocess	Job Running Subprocess
<code>job-running-system-d</code>	job-running-system-d	Job Running System D
<code>job-settings</code>	job-settings	Job Settings
<code>job-step-statistics</code>	job-step-statistics	Job Step Statistics
<code>job-started</code>	job-started	Job Started
<code>job-staged</code>	job-staged	Job Staged
<code>job-state-transition</code>	job-state-transition	Job State Transition
<code>job-shutting-down</code>	job-shutting-down	Job Shutting Down
<code>job-stopping</code>	job-stopping	Job Stopping
<code>job-stopped</code>	job-stopped	Job Stopped
<code>job-timed-out</code>	job-timed-out	Job Timed Out
<code>job-suspicious-silence</code>	job-suspicious-silence	Job Suspicious Silence
<code>job-thread-state</code>	job-thread-state	Job Thread State
<code>job-trace</code>	job-trace	Job Trace
<code>job-trace-requires-samples</code>	job-trace-requires-samples	Job Trace Requires Samples
<code>job-updated</code>	job-updated	Job Updated
<code>job-worker-comms-error</code>	job-worker-comms-error	Job Worker Comms Error
<code>job-unstaged</code>	job-unstaged	Job Unstaged
<code>license-state-changed</code>	license-state-changed	License State Changed
<code>license-validation-failed</code>	license-validation-failed	License Validation Failed

license-validation-ok	license-validation-ok	License Validation Ok
license-volume-violation	license-volume-violation	License Volume Violation
new-license	new-license	New License
override-job-coordinated-shutdown	override-job-coordinated-shutdown	Override Job Coordinated Shutdown
override-server-coordinated-shutdown	override-server-coordinated-shutdown	Override Server Coordinated Shutdown
override-worker-coordinated-shutdown	override-worker-coordinated-shutdown	Override Worker Coordinated Shutdown
register-job-thread-dependency	register-job-thread-dependency	Register Job Thread Dependency
register-server-thread-dependency	register-server-thread-dependency	Register Server Thread Dependency
register-worker-thread-dependency	register-worker-thread-dependency	Register Worker Thread Dependency
run-job-failure	run-job-failure	Run Job Failure
server-logs	server-logs	Server Logs
server-metrics-batch	server-metrics-batch	Server Metrics Batch
server-started	server-started	Server Started
server-starting	server-starting	Server Starting
server-stopping	server-stopping	Server Stopping
server-thread-state	server-thread-state	Server Thread State
server-worker-comms-error	server-worker-comms-error	Server Worker Comms Error
shutdown-jobs	shutdown-jobs	Shutdown Jobs
shutdown-worker	shutdown-worker	Shutdown Worker
system-shutdown	system-shutdown	System Shutdown
update-upstream-sync-for-job	update-upstream-sync-for-job	Update Upstream Sync For Job
update-upstream-sync-for-worker	update-upstream-sync-for-worker	Update Upstream Sync For Worker
update-variable	update-variable	Update Variable
user-alert	user-alert	User Alert
user-generated	user-generated	User Generated
user-notification	user-notification	User Notification
worker-command-for-job	worker-command-for-job	Worker Command For Job
worker-auth-lease-ack	worker-auth-lease-ack	Worker Auth Lease Ack
worker-connected	worker-connected	Worker Connected
worker-created	worker-created	Worker Created

<code>worker-debug-heart-beat</code>	<code>worker-debug-heart-beat</code>	Worker Debug Heart Beat
<code>worker-error</code>	<code>worker-error</code>	Worker Error
<code>worker-first-seen</code>	<code>worker-first-seen</code>	Worker First Seen
<code>worker-heart-beat</code>	<code>worker-heart-beat</code>	Worker Heart Beat
<code>worker-logs</code>	<code>worker-logs</code>	Worker Logs
<code>worker-metrics-batch</code>	<code>worker-metrics-batch</code>	Worker Metrics Batch
<code>worker-offline</code>	<code>worker-offline</code>	Worker Offline
<code>worker-requests-auth-lease</code>	<code>worker-requests-auth-lease</code>	Worker Requests Auth Lease
<code>worker-server-comms-error</code>	<code>worker-server-comms-error</code>	Worker Server Comms Error
<code>worker-settings</code>	<code>worker-settings</code>	Worker Settings
<code>worker-shutdown</code>	<code>worker-shutdown</code>	Worker Shutdown
<code>worker-shutting-down</code>	<code>worker-shutting-down</code>	Worker Shutting Down
<code>worker-started</code>	<code>worker-started</code>	Worker Started
<code>worker-state-uuid</code>	<code>worker-state-uuid</code>	Worker State Uuid
<code>worker-stopping</code>	<code>worker-stopping</code>	Worker Stopping
<code>worker-suspicious-silence</code>	<code>worker-suspicious-silence</code>	Worker Suspicious Silence
<code>worker-system-information</code>	<code>worker-system-information</code>	Worker System Information
<code>worker-thread-state</code>	<code>worker-thread-state</code>	Worker Thread State
<code>worker-updated</code>	<code>worker-updated</code>	Worker Updated
<code>worker-modified</code>	<code>worker-modified</code>	Worker Modified
<code>worker-removed</code>	<code>worker-removed</code>	Worker Removed
<code>context-changed</code>	<code>context-changed</code>	Context Changed
<code>rerender-deployment</code>	<code>rerender-deployment</code>	Rerender Deployment
<code>job-killed</code>	<code>job-killed</code>	Job Killed
<code>message-serviced</code>	<code>message-serviced</code>	Message Serviced
<code>failed-to-service-message</code>	<code>failed-to-service-message</code>	Failed To Service Message
<code>worker-wants-initial-settings</code>	<code>worker-wants-initial-settings</code>	Worker Wants Initial Settings
<code>worker-wants-initial-settings-reply</code>	<code>worker-wants-initial-settings-reply</code>	Worker Wants Initial Settings Reply
<code>worker-wants-deployed-jobs</code>	<code>worker-wants-deployed-jobs</code>	Worker Wants Deployed Jobs
<code>worker-wants-deployed-jobs-reply</code>	<code>worker-wants-deployed-jobs-reply</code>	Worker Wants Deployed Jobs Reply
<code>worker-wants-job-configuration</code>	<code>worker-wants-job-configuration</code>	Worker Wants Job Configuration

<code>worker-wants-job-configuration-reply</code>	<code>worker-wants-job-configuration-reply</code>	Worker Wants Job Configuration Reply
<code>job-wants-dslir-key</code>	<code>job-wants-dslir-key</code>	Job Wants Dslir Key
<code>job-wants-dslir-key-reply</code>	<code>job-wants-dslir-key-reply</code>	Job Wants Dslir Key Reply
<code>worker-wants-dslir-key</code>	<code>worker-wants-dslir-key</code>	Worker Wants Dslir Key
<code>worker-wants-dslir-key-reply</code>	<code>worker-wants-dslir-key-reply</code>	Worker Wants Dslir Key Reply
<code>job-wants-variables</code>	<code>job-wants-variables</code>	Job Wants Variables
<code>job-wants-variables-reply</code>	<code>job-wants-variables-reply</code>	Job Wants Variables Reply
<code>job-wants-credentials</code>	<code>job-wants-credentials</code>	Job Wants Credentials
<code>job-wants-credentials-reply</code>	<code>job-wants-credentials-reply</code>	Job Wants Credentials Reply
<code>job-wants-credentials-error</code>	<code>job-wants-credentials-error</code>	Job Wants Credentials Error
<code>job-wants-secret-variables-reply</code>	<code>job-wants-secret-variables-reply</code>	Job Wants Secret Variables Reply
<code>job-credentials-invalidated</code>	<code>job-credentials-invalidated</code>	Job Credentials Invalidated
<code>aggregator-health</code>	<code>aggregator-health</code>	Aggregator Health
<code>worker-aggregator-health</code>	<code>worker-aggregator-health</code>	Worker Aggregator Health
<code>worker-verification-token</code>	<code>worker-verification-token</code>	Worker Verification Token
<code>worker-requests-verification-token</code>	<code>worker-requests-verification-token</code>	Worker Requests Verification Token
<code>runtime-artifact-update</code>	<code>runtime-artifact-update</code>	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	<code>runtime-artifact-update-ack</code>	Runtime Artifact Update Ack
<code>runtime-artifact-clear</code>	<code>runtime-artifact-clear</code>	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	<code>runtime-artifact-clear-ack</code>	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch</code>	<code>runtime-artifact-fetch</code>	Runtime Artifact Fetch
<code>runtime-artifact-fetch-reply</code>	<code>runtime-artifact-fetch-reply</code>	Runtime Artifact Fetch Reply
<code>runtime-artifact-fetch-error</code>	<code>runtime-artifact-fetch-error</code>	Runtime Artifact Fetch Error

HTTP Poll

Reference for the HTTP Poll component in LyftData's DSL

Source: <reference/dsl/inputs/http-poll.md>

HTTP Poll (`http-poll`)

Run HTTP queries.

Http binary json raw

Minimal example

```
input:
http-poll: url: ""
```

JSON

```
{
  "input": { "http-poll": { "url": "" } } }
```

Contents

- [Minimal example](#)
- [Authentication](#)
- [Behavior](#)
- [Pagination](#)
- [Processing](#)
- [Reliability](#)
- [Request](#)
- [Response](#)
- [Security](#)
- [Trigger](#)
- [Schema](#)

Authentication

Authentication

Field	Type	Required	Description
<code>auth</code>	<code>Auth</code>		HTTP authentication / signing strategy. Allowed values: <code>basic</code> , <code>header-token</code> , <code>facebook-app-secret</code> , <code>aws-sig-v4</code> , <code>oauth2-via-credential-manager</code>

Behavior

Behavior

Field	Type	Required	Description
<code>json</code> ✓	<code>boolean</code> (<code>bool</code>)		Use for when data is text or already JSON. Default: <code>false</code>
<code>payload-mode</code> ✓	Payload Mode		Select how the response body should be interpreted (<code>auto</code> , <code>json</code> , <code>raw</code> , <code>binary</code>). Default: <code>auto</code> Allowed values: <code>auto</code> , <code>json</code> , <code>raw</code> , <code>binary</code>
<code>ignore-line-breaks</code> ✓	<code>boolean</code> (<code>bool</code>)		Do not treat separate lines as distinct events. Default: <code>false</code>

Pagination

Pagination

Field	Type	Required	Description
<code>pagination</code>	Pagination		Optional pagination handler configuration. Allowed values: <code>cursor</code> , <code>link-header</code> , <code>query-param</code>

Processing

Processing

Field	Type	Required	Description
<code>batch</code>	Batch		Mark each group of input events in a distinct way.
<code>events-field</code>	<code>field</code> (<code>string</code>)		extract events from this field of the response, assumed to be an array. Body is assumed to be JSON and we ignore line breaks. Examples: <code>data_field</code>
<code>document-mode</code> ✓	<code>boolean</code> (<code>bool</code>)		collect all the output together as a single document (will affect batching on the output). Default: <code>false</code>

Reliability

Reliability

Field	Type	Required	Description
<code>retry</code>	Retry		How to retry operation if it fails.
<code>timeout</code>	<code>time-interval</code> (<code>string</code>)		Timeout for the request (e.g. 500ms, 2s, etc. - the default is 30 seconds). Examples: <code>500ms</code> , <code>2h</code>

Request

Request

Field	Type	Required	Description
<code>url</code>	<code>url (string)</code>	<input checked="" type="checkbox"/>	The URL for this request. Examples: <code>https://example.com/path</code>
<code>headers</code>	<code>map (string)</code>		Headers to send with the query.
<code>query</code>	<code>map (string)</code>		Query parameters to send with the query.
<code>body</code>	<code>multiline-text (string)</code>		The payload to send.
<code>form-urlencoded-body</code>	<code>map (string)</code>		Payload as key-value pairs posted as form-urlencoded.
<code>method</code>	<code>Method</code>		HTTP method to use for the query - default is GET. Default: <code>get</code> Allowed values: <code>get</code> , <code>post</code> , <code>put</code> , <code>patch</code> , <code>delete</code> , <code>options</code> , <code>head</code>

Response

Response

Field	Type	Required	Description
<code>response</code>	<code>HTTP Response Mapping</code>		Fields to include in returned event.

Security

Security

Field	Type	Required	Description
<code>insecure</code> <input checked="" type="checkbox"/>	<code>boolean (bool)</code>		Ignore TLS certificate validation errors (This is unsafe to use). Default: <code>false</code>

Trigger

Trigger

Field	Type	Required	Description
<code>trigger</code>	<code>Trigger</code>		When and how to run this input. If omitted, runs exactly once. Allowed values: <code>message</code> , <code>cron</code> , <code>interval</code>

Schema

- [Auth Options](#)
- [Pagination Options](#)
- [Trigger - Cron - Window - Window Start Options](#)
- [Trigger - Interval - Window - Window Start Options](#)
- [Trigger Options](#)
- [Auth - Basic Fields](#)
- [Auth - Header Token Fields](#)
- [Auth - Facebook App Secret Fields](#)
- [Auth - Aws Sig V4 Fields](#)
- [Auth - Oauth2 Via Credential Manager Fields](#)
- [Pagination - Cursor Fields](#)
- [Pagination - Link Header Fields](#)
- [Pagination - Query Param Fields](#)
- [Pagination - Checkpoint Options](#)
- [Pagination - Checkpoint - Worker KV Fields](#)
- [Batch Fields](#)
- [Retry Fields](#)
- [HTTP Response Mapping Fields](#)
- [Trigger - Message Fields](#)
- [Trigger - Cron - Window - Window Start - Start Time Fields](#)
- [Trigger - Cron - Window Fields](#)
- [Trigger - Cron Fields](#)
- [Trigger - Interval - Window - Window Start - Start Time Fields](#)
- [Trigger - Interval - Window Fields](#)
- [Trigger - Interval Fields](#)
- [Headers Table](#)
- [Query Table](#)
- [Form Urlencoded Body Table](#)
- [Auth - Oauth2 Via Credential Manager - Credential scope mode Options](#)
- [Payload Mode Options](#)
- [Method Options](#)
- [Trigger - Message - Filter Kind Options](#)
- [Trigger - Message - Filter Source Options](#)
- [Trigger - Message - Filter Type Options](#)

Auth Options

Option	Name	Type	Description
<code>basic</code>	Basic	<code>object</code>	
<code>header-token</code>	Header Token	<code>object</code>	
<code>facebook-app-secret</code>	Facebook App Secret	<code>object</code>	
<code>aws-sig-v4</code>	Aws Sig V4	<code>object</code>	
<code>oauth2-via-credential-manager</code>	Oauth2 Via Credential Manager	<code>object</code>	

Pagination Options

Option	Name	Type	Description
<code>cursor</code>	Cursor	object	
<code>link-header</code>	Link Header	object	
<code>query-param</code>	Query Param	object	

Trigger - Cron - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	object	
<code>tracked</code>	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	object	
<code>tracked</code>	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger Options

Option	Name	Type	Description
<code>message</code>	Message	object	
<code>cron</code>	Cron	object	
<code>interval</code>	Interval	object	

Auth - Basic Fields

Field	Type	Required	Description
<code>username</code>	string	<input checked="" type="checkbox"/>	Name of User.
<code>password</code>	string	<input checked="" type="checkbox"/>	Password.

Auth - Header Token Fields

Field	Type	Required	Description
<code>token</code> ✓	string	<input checked="" type="checkbox"/>	Token value (literal or context/secret/credential reference).
<code>auth-header</code>	string		Header used to carry the token. Default: <code>Authorization</code>

<code>prefix</code>	<code>string</code>		Prefix prepended to the token (use an empty string to send the token as-is). Default: <code>Bearer</code>
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Auth - Facebook App Secret Fields

Field	Type	Required	Description
<code>access-token</code> ✓	<code>string</code>	✓	Access token (usually a user or page token). Accepts literal values or context/secret references (<code>{{ ctx.facebook.token }}</code>).
<code>app-secret</code> ✓	<code>string</code>	✓	Facebook App Secret used to compute the HMAC proof (literal or context/secret reference).
<code>proof-param</code>	<code>string</code>		Query parameter name used for the proof. Default: <code>appsecret_proof</code>
<code>auth-header</code>	<code>string</code>		Header used to carry the access token. Default: <code>Authorization</code>

Auth - Aws Sig V4 Fields

Field	Type	Required	Description
<code>access-key-id</code> ✓	<code>string</code>	✓	AWS access key id (literal or context/secret/credential reference).
<code>secret-access-key</code> ✓	<code>string</code>	✓	AWS secret access key (literal or context/secret/credential reference).
<code>session-token</code> ✓	<code>string</code>		Optional AWS session token for temporary credentials (literal or context reference).
<code>region</code> ✓	<code>string</code>	✓	AWS region used to compute the signature (e.g. <code>us-east-1</code>).
<code>service</code> ✓	<code>string</code>		AWS service name (defaults to <code>execute-api</code> when omitted).

Auth - Oauth2 Via Credential Manager Fields

Field	Type	Required	Description
<code>credential-id</code> ✓	<code>credential-id</code> (<code>string</code>)	✓	Credential manager id used to hydrate the OAuth2 token. Examples: <code>2b64d2a0-0b76-4cd0-9ef0-3f0ef3d2a9a1</code>
<code>credential-scope-mode</code>	<code>Credential scope mode</code>	✓	How to choose the scopes bound to this job when using the credential. Allowed values: <code>allowed</code> , <code>custom</code>
<code>credential-scopes</code>	<code>string[]</code>		Custom scopes to bind to this job when <code>credential-scope-mode</code> is <code>custom</code> .
<code>token-field</code>	<code>string</code>		Credential field name used as the token (e.g. <code>access_token</code>). Default: <code>access_token</code>
<code>auth-header</code>	<code>string</code>		Header used to carry the token. Default: <code>Authorization</code>
<code>prefix</code>	<code>string</code>		Prefix prepended to the token (use an empty string to send the token as-is). Default: <code>Bearer</code>

Pagination - Cursor Fields

Field	Type	Required	Description
<code>namespace</code> ✓	<code>string</code>	✓	Worker KV namespace in <code>tenant:namespace</code> form used to persist cursors.
<code>cursor-key</code> ✓	<code>string</code>	✓	Key used to store the latest cursor for this poller.
<code>cursor-query-param</code>	<code>string</code>		Query parameter appended for cursor pagination. Default: <code>after</code>
<code>cursor-pointer</code>	<code>json-pointer</code> (<code>string</code>)		JSON pointer to extract the cursor value. Default: <code>/paging/cursors/after</code>
<code>next-pointer</code>	<code>json-pointer</code> (<code>string</code>)		JSON pointer to extract the next page URL. Default: <code>/paging/next</code>
<code>max-pages-per-run</code>	<code>number</code>		Maximum number of pages fetched per run. Default: <code>5</code>

Pagination - Link Header Fields

Field	Type	Required	Description
<code>header</code>	<code>string</code>		Header to parse for pagination links. Default: <code>Link</code>
<code>rel</code>	<code>string</code>		Link relation to follow (typically <code>next</code>). Default: <code>next</code>
<code>max-pages-per-run</code>	<code>number</code>		Maximum number of pages fetched per run. Default: <code>5</code>

Pagination - Query Param Fields

Field	Type	Required	Description
<code>param</code>	<code>string</code>	✓	Query parameter name used for pagination.
<code>start</code>	<code>number</code>		First paged value to request after the base URL is fetched. Default: <code>2</code>
<code>step</code>	<code>number</code>		Increment applied after each successfully fetched page. Default: <code>1</code>
<code>max-pages-per-run</code>	<code>number</code>		Maximum number of pages fetched per run. Default: <code>5</code>
<code>checkpoint</code>	<code>Checkpoint</code>		Where to persist pagination checkpoints (defaults to runtime artefacts). Allowed values: <code>runtime-artifacts</code> , <code>worker-kv</code>
<code>continue-if-body-regex</code>	<code>string</code>		Continue pagination only while this regex matches the response body.
<code>terminal-status-codes</code>	<code>number[]</code>		Treat these HTTP status codes as a clean end-of-pagination (no error event, no payload emit). Default: <code>404</code>

Pagination - Checkpoint Options

Option	Name	Type	Description
<code>runtime-artifacts</code>	Runtime Artifacts	<code>object</code>	
<code>worker-kv</code>	Worker KV	<code>object</code>	

Pagination - Checkpoint - Worker KV Fields

Field	Type	Required	Description
<code>namespace</code> ✓	<code>string</code>	✓	Worker KV namespace in <code>tenant:namespace</code> form.
<code>key</code> ✓	<code>string</code>	✓	Key used to store pagination state.

Batch Fields

Field	Type	Required	Description
<code>uuid-field</code>	<code>field</code> (<code>string</code>)		Field where generated uuid, the unique marker for the group, will be stored. Examples: <code>data_field</code>
<code>invocation-time-field</code>	<code>field</code> (<code>string</code>)		Field where invocation time will be stored. Examples: <code>data_field</code>
<code>completion-time-field</code>	<code>field</code> (<code>string</code>)		Field where completion (end of execution) time will be stored. Examples: <code>data_field</code>
<code>begin-marker-field</code>	<code>field</code> (<code>string</code>)		Field used to mark first event in the group. Examples: <code>data_field</code>
<code>end-marker-field</code>	<code>field</code> (<code>string</code>)		Field used to mark last event in the group. Examples: <code>data_field</code>
<code>line-count-field</code>	<code>field</code> (<code>string</code>)		Field used to store the line count of the batch. Examples: <code>data_field</code>
<code>line-num-field</code>	<code>field</code> (<code>string</code>)		Field used to store the line number of the batch. Examples: <code>data_field</code>

Retry Fields

Field	Type	Required	Description
<code>timeout</code>	<code>time-interval</code> (<code>string</code>)	✓	timeout (e.g. 500ms, 2s etc. - default is 30). Examples: <code>500ms</code> , <code>2h</code>
<code>retries</code>	<code>number</code> (<code>integer</code>)		number of retries. Examples: <code>42</code> , <code>1.2e-10</code>

HTTP Response Mapping Fields

Field	Type	Required	Description
<code>json</code> ✓	<code>boolean</code> (<code>bool</code>)		Return response in JSON format as single line-delimited event. Default: <code>true</code>

<code>status-field</code>	<code>field</code> (<code>string</code>)		Field to store HTTP status code. Examples: <code>data_field</code>
<code>headers-field</code>	<code>field</code> (<code>string</code>)		Field to store response headers. Examples: <code>data_field</code>
<code>response-field</code>	<code>field</code> (<code>string</code>)		Field to store the body of the response. Default: <code>_raw</code> Examples: <code>data_field</code>

Trigger - Message Fields

Field	Type	Required	Description
<code>limit</code> ✓	<code>number</code> (<code>integer</code>)		The number of times to run the input. Examples: <code>42</code> , <code>1.2e-10</code>
<code>filter-kind</code>	<code>Filter Kind</code>		Specifies whether the message originated from the "system" or by the "user". Allowed values: <code>system</code> , <code>user</code> , <code>runtime-artifact-fetch</code> , <code>runtime-artifact-fetch-error</code> , <code>runtime-artifact-clear</code> , <code>runtime-artifact-clear-ack</code> , <code>runtime-artifact-fetch-reply</code> , <code>runtime-artifact-update</code> , <code>runtime-artifact-update-ack</code>
<code>filter-source</code>	[<code>Filter Source[]</code>] (#trigger-message-filter-source-options)		Specifies what process generated the message. Was it a "server", "worker" or "job"? Allowed values: <code>job</code> , <code>worker</code> , <code>server</code>
<code>filter-worker</code>	<code>string</code>		Specifies what worker to select.
<code>filter-job</code>	<code>string</code>		Specifies the name of the job that the message came from.
<code>filter-type</code>	[<code>Filter Type[]</code>] (#trigger-message-filter-type-options)		Specifies that particular types of message ought to match. Allowed values: <code>worker-licensed</code> , <code>worker-unlicensed</code> , <code>variable</code> , <code>variable-deleted</code> , <code>begin-shutting-down-job</code> , <code>begin-shutting-down-server</code> , <code>begin-shutting-down-worker</code> , <code>broadcast-job-thread-state</code> , <code>broadcast-server-thread-state</code> , <code>broadcast-worker-thread-state</code> , ...
<code>filter-tag</code>	<code>string</code>		Specifies that messages matched ought to carry a tag with a particular value. This only matches against user-generated messages.

Trigger - Cron - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (<code>string</code>)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (<code>string</code>)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Cron - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Window size.
<code>offset</code>	<code>duration</code> (<code>string</code>)		Window offset. Default: <code>0s</code>
<code>start</code>	Window Start		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Cron Fields

Field	Type	Required	Description
<code>cron</code>	<code>cron-expression</code> (<code>string</code>)	<input checked="" type="checkbox"/>	The Cron pattern.
<code>immediate</code> ✓	<code>boolean</code> (<code>bool</code>)		Run as soon as invoked, instead of waiting for the specified cron interval. Default: <code>false</code>
<code>random-offset</code>	<code>duration</code> (<code>string</code>)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	Window		Optional window definition when the schedule should only read a bounded range.

Trigger - Interval - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Window size.
<code>offset</code>	<code>duration</code> (<code>string</code>)		Window offset. Default: <code>0s</code>
<code>start</code>	Window Start		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Interval Fields

Field	Type	Required	Description
<code>duration</code>	<code>duration</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Duration to wait between events.
<code>random-offset</code>	<code>duration</code> (<code>string</code>)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	<code>Window</code>		Optional window definition when the interval should only cover a bounded range.

Headers Table

Header	Value
<code>Header-Name</code>	<code>value</code>

Value format: `templated-text` .

Query Table

Parameter	Value
<code>param</code>	<code>value</code>

Value format: `templated-text` .

Form Urlencoded Body Table

Field	Value
<code>field</code>	<code>value</code>

Value format: `templated-text` .

Auth - Oauth2 Via Credential Manager - Credential scope mode Options

Value	Name	Description
<code>allowed</code>	<code>allowed</code>	Allowed
<code>custom</code>	<code>custom</code>	Custom

Payload Mode Options

Value	Name	Description
<code>auto</code>	<code>auto</code>	Auto
<code>json</code>	<code>json</code>	Json
<code>raw</code>	<code>raw</code>	Raw

binary	binary	Binary
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Method Options

Value	Name	Description
get	get	Get
post	post	Post
put	put	Put
patch	patch	Patch
delete	delete	Delete
options	options	Options
head	head	Head

Trigger - Message - Filter Kind Options

Value	Name	Description
system	system	System
user	user	User
runtime-artifact-fetch	runtime-artifact-fetch	Runtime Artifact Fetch
runtime-artifact-fetch-error	runtime-artifact-fetch-error	Runtime Artifact Fetch Error
runtime-artifact-clear	runtime-artifact-clear	Runtime Artifact Clear
runtime-artifact-clear-ack	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
runtime-artifact-fetch-reply	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
runtime-artifact-update	runtime-artifact-update	Runtime Artifact Update
runtime-artifact-update-ack	runtime-artifact-update-ack	Runtime Artifact Update Ack

Trigger - Message - Filter Source Options

Value	Name	Description
job	job	Job
worker	worker	Worker
server	server	Server

Trigger - Message - Filter Type Options

Value	Name	Description
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worker-licensed	worker-licensed	Worker Licensed
worker-unlicensed	worker-unlicensed	Worker Unlicensed
variable	variable	Variable
variable-deleted	variable-deleted	Variable Deleted
begin-shutting-down-job	begin-shutting-down-job	Begin Shutting Down Job
begin-shutting-down-server	begin-shutting-down-server	Begin Shutting Down Server
begin-shutting-down-worker	begin-shutting-down-worker	Begin Shutting Down Worker
broadcast-job-thread-state	broadcast-job-thread-state	Broadcast Job Thread State
broadcast-server-thread-state	broadcast-server-thread-state	Broadcast Server Thread State
broadcast-worker-thread-state	broadcast-worker-thread-state	Broadcast Worker Thread State
check-job-report-time	check-job-report-time	Check Job Report Time
check-worker-report-time	check-worker-report-time	Check Worker Report Time
de-register-job-thread-dependency	de-register-job-thread-dependency	De Register Job Thread Dependency
de-register-server-thread-dependency	de-register-server-thread-dependency	De Register Server Thread Dependency
de-register-worker-thread-dependency	de-register-worker-thread-dependency	De Register Worker Thread Dependency
deployed-job-active	deployed-job-active	Deployed Job Active
deployed-job-removed	deployed-job-removed	Deployed Job Removed
deployed-job-should-be-running	deployed-job-should-be-running	Deployed Job Should Be Running
deployment-phase	deployment-phase	Deployment Phase
heart-beat	heart-beat	Heart Beat
initialise-internal-state	initialise-internal-state	Initialise Internal State
initialise-job-states	initialise-job-states	Initialise Job States
job-batch-end	job-batch-end	Job Batch End
job-backlog-update	job-backlog-update	Job Backlog Update
job-checkpoint-update	job-checkpoint-update	Job Checkpoint Update
job-deploy-ready	job-deploy-ready	Job Deploy Ready
job-deployed	job-deployed	Job Deployed
job-document-end	job-document-end	Job Document End
job-document-start	job-document-start	Job Document Start
job-errors	job-errors	Job Errors

<code>job-execution-anomaly</code>	<code>job-execution-anomaly</code>	Job Execution Anomaly
<code>job-execution-status</code>	<code>job-execution-status</code>	Job Execution Status
<code>job-emit-custom</code>	<code>job-emit-custom</code>	Job Emit Custom
<code>job-finished</code>	<code>job-finished</code>	Job Finished
<code>job-idle</code>	<code>job-idle</code>	Job Idle
<code>job-initiated</code>	<code>job-initiated</code>	Job Initiated
<code>job-is-processing</code>	<code>job-is-processing</code>	Job Is Processing
<code>job-logs</code>	<code>job-logs</code>	Job Logs
<code>job-metrics</code>	<code>job-metrics</code>	Job Metrics
<code>job-notifications</code>	<code>job-notifications</code>	Job Notifications
<code>job-removing</code>	<code>job-removing</code>	Job Removing
<code>job-removed</code>	<code>job-removed</code>	Job Removed
<code>job-remove-failed</code>	<code>job-remove-failed</code>	Job Remove Failed
<code>job-remove-ready</code>	<code>job-remove-ready</code>	Job Remove Ready
<code>job-replaced</code>	<code>job-replaced</code>	Job Replaced
<code>job-required</code>	<code>job-required</code>	Job Required
<code>job-run-ended</code>	<code>job-run-ended</code>	Job Run Ended
<code>job-runtime-error</code>	<code>job-runtime-error</code>	Job Runtime Error
<code>job-runtime-settings</code>	<code>job-runtime-settings</code>	Job Runtime Settings
<code>job-run-started</code>	<code>job-run-started</code>	Job Run Started
<code>job-running-docker</code>	<code>job-running-docker</code>	Job Running Docker
<code>job-running-script</code>	<code>job-running-script</code>	Job Running Script
<code>job-running-subprocess</code>	<code>job-running-subprocess</code>	Job Running Subprocess
<code>job-running-system-d</code>	<code>job-running-system-d</code>	Job Running System D
<code>job-settings</code>	<code>job-settings</code>	Job Settings
<code>job-step-statistics</code>	<code>job-step-statistics</code>	Job Step Statistics
<code>job-started</code>	<code>job-started</code>	Job Started
<code>job-staged</code>	<code>job-staged</code>	Job Staged
<code>job-state-transition</code>	<code>job-state-transition</code>	Job State Transition
<code>job-shutting-down</code>	<code>job-shutting-down</code>	Job Shutting Down
<code>job-stopping</code>	<code>job-stopping</code>	Job Stopping
<code>job-stopped</code>	<code>job-stopped</code>	Job Stopped

job-timed-out	job-timed-out	Job Timed Out
job-suspicious-silence	job-suspicious-silence	Job Suspicious Silence
job-thread-state	job-thread-state	Job Thread State
job-trace	job-trace	Job Trace
job-trace-requires-samples	job-trace-requires-samples	Job Trace Requires Samples
job-updated	job-updated	Job Updated
job-worker-comms-error	job-worker-comms-error	Job Worker Comms Error
job-unstaged	job-unstaged	Job Unstaged
license-state-changed	license-state-changed	License State Changed
license-validation-failed	license-validation-failed	License Validation Failed
license-validation-ok	license-validation-ok	License Validation Ok
license-volume-violation	license-volume-violation	License Volume Violation
new-license	new-license	New License
override-job-coordinated-shutdown	override-job-coordinated-shutdown	Override Job Coordinated Shutdown
override-server-coordinated-shutdown	override-server-coordinated-shutdown	Override Server Coordinated Shutdown
override-worker-coordinated-shutdown	override-worker-coordinated-shutdown	Override Worker Coordinated Shutdown
register-job-thread-dependency	register-job-thread-dependency	Register Job Thread Dependency
register-server-thread-dependency	register-server-thread-dependency	Register Server Thread Dependency
register-worker-thread-dependency	register-worker-thread-dependency	Register Worker Thread Dependency
run-job-failure	run-job-failure	Run Job Failure
server-logs	server-logs	Server Logs
server-metrics-batch	server-metrics-batch	Server Metrics Batch
server-started	server-started	Server Started
server-starting	server-starting	Server Starting
server-stopping	server-stopping	Server Stopping
server-thread-state	server-thread-state	Server Thread State
server-worker-comms-error	server-worker-comms-error	Server Worker Comms Error
shutdown-jobs	shutdown-jobs	Shutdown Jobs
shutdown-worker	shutdown-worker	Shutdown Worker
system-shutdown	system-shutdown	System Shutdown

update-upstream-sync-for-job	update-upstream-sync-for-job	Update Upstream Sync For Job
update-upstream-sync-for-worker	update-upstream-sync-for-worker	Update Upstream Sync For Worker
update-variable	update-variable	Update Variable
user-alert	user-alert	User Alert
user-generated	user-generated	User Generated
user-notification	user-notification	User Notification
worker-command-for-job	worker-command-for-job	Worker Command For Job
worker-auth-lease-ack	worker-auth-lease-ack	Worker Auth Lease Ack
worker-connected	worker-connected	Worker Connected
worker-created	worker-created	Worker Created
worker-debug-heart-beat	worker-debug-heart-beat	Worker Debug Heart Beat
worker-error	worker-error	Worker Error
worker-first-seen	worker-first-seen	Worker First Seen
worker-heart-beat	worker-heart-beat	Worker Heart Beat
worker-logs	worker-logs	Worker Logs
worker-metrics-batch	worker-metrics-batch	Worker Metrics Batch
worker-offline	worker-offline	Worker Offline
worker-requests-auth-lease	worker-requests-auth-lease	Worker Requests Auth Lease
worker-server-comms-error	worker-server-comms-error	Worker Server Comms Error
worker-settings	worker-settings	Worker Settings
worker-shutdown	worker-shutdown	Worker Shutdown
worker-shutting-down	worker-shutting-down	Worker Shutting Down
worker-started	worker-started	Worker Started
worker-state-uuid	worker-state-uuid	Worker State Uuid
worker-stopping	worker-stopping	Worker Stopping
worker-suspicious-silence	worker-suspicious-silence	Worker Suspicious Silence
worker-system-information	worker-system-information	Worker System Information
worker-thread-state	worker-thread-state	Worker Thread State
worker-updated	worker-updated	Worker Updated
worker-modified	worker-modified	Worker Modified
worker-removed	worker-removed	Worker Removed
context-changed	context-changed	Context Changed

rerender-deployment	rerender-deployment	Rerender Deployment
job-killed	job-killed	Job Killed
message-serviced	message-serviced	Message Serviced
failed-to-service-message	failed-to-service-message	Failed To Service Message
worker-wants-initial-settings	worker-wants-initial-settings	Worker Wants Initial Settings
worker-wants-initial-settings-reply	worker-wants-initial-settings-reply	Worker Wants Initial Settings Reply
worker-wants-deployed-jobs	worker-wants-deployed-jobs	Worker Wants Deployed Jobs
worker-wants-deployed-jobs-reply	worker-wants-deployed-jobs-reply	Worker Wants Deployed Jobs Reply
worker-wants-job-configuration	worker-wants-job-configuration	Worker Wants Job Configuration
worker-wants-job-configuration-reply	worker-wants-job-configuration-reply	Worker Wants Job Configuration Reply
job-wants-dslir-key	job-wants-dslir-key	Job Wants Dslir Key
job-wants-dslir-key-reply	job-wants-dslir-key-reply	Job Wants Dslir Key Reply
worker-wants-dslir-key	worker-wants-dslir-key	Worker Wants Dslir Key
worker-wants-dslir-key-reply	worker-wants-dslir-key-reply	Worker Wants Dslir Key Reply
job-wants-variables	job-wants-variables	Job Wants Variables
job-wants-variables-reply	job-wants-variables-reply	Job Wants Variables Reply
job-wants-credentials	job-wants-credentials	Job Wants Credentials
job-wants-credentials-reply	job-wants-credentials-reply	Job Wants Credentials Reply
job-wants-credentials-error	job-wants-credentials-error	Job Wants Credentials Error
job-wants-secret-variables-reply	job-wants-secret-variables-reply	Job Wants Secret Variables Reply
job-credentials-invalidated	job-credentials-invalidated	Job Credentials Invalidated
aggregator-health	aggregator-health	Aggregator Health
worker-aggregator-health	worker-aggregator-health	Worker Aggregator Health
worker-verification-token	worker-verification-token	Worker Verification Token
worker-requests-verification-token	worker-requests-verification-token	Worker Requests Verification Token
runtime-artifact-update	runtime-artifact-update	Runtime Artifact Update
runtime-artifact-update-ack	runtime-artifact-update-ack	Runtime Artifact Update Ack
runtime-artifact-clear	runtime-artifact-clear	Runtime Artifact Clear
runtime-artifact-clear-ack	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
runtime-artifact-fetch	runtime-artifact-fetch	Runtime Artifact Fetch

<code>runtime-artifact-fetch-reply</code>	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
<code>runtime-artifact-fetch-error</code>	runtime-artifact-fetch-error	Runtime Artifact Fetch Error

HTTP Server

Reference for the HTTP Server component in LyftData's DSL

Source: <reference/dsl/inputs/http-server.md>

HTTP Server (`http-server`)

Run an HTTP server and output any received requests.

Http binary json raw

Minimal example

```
input:
http-server: address: ~
```

JSON

```
{
  "input": { "http-server": { "address": null } } }
```

Contents

- [Minimal example](#)
- [Behavior](#)
- [Reliability](#)
- [Response](#)
- [Security](#)
- [Server](#)
- [Schema](#)

Behavior

Behavior

Field	Type	Required	Description
<code>only-body</code> ✓	<code>boolean</code> (<code>bool</code>)		Only print out body, assumed to be JSON. Default: <code>false</code>
<code>query</code>	<code>string</code>		Only print out given query var.
<code>json</code> ✓	<code>boolean</code> (<code>bool</code>)		Data is assumed to be already JSON. Default: <code>false</code>
<code>ignore-linebreaks</code> ✓	<code>boolean</code> (<code>bool</code>)		Do not split body on line breaks. Default: <code>false</code>

Reliability

Reliability

Field	Type	Required	Description
<code>timeout</code>	<code>string</code>		Timeout.

Response

Response

Field	Type	Required	Description
<code>custom-response</code>	<code>multiline-text (string)</code>		Respond using this text.
<code>source-ip-field</code>	<code>field (string)</code>		If specified the source IP address for the HTTP request to the server will be stored in the specified field. Examples: <code>data_field</code>

Security

Security

Field	Type	Required	Description
<code>tls</code>	<code>Tls</code>		Optional TLS certificate and key.

Server

Server

Field	Type	Required	Description
<code>address</code>	<code>string</code>	<input checked="" type="checkbox"/>	Server listens on this address:port.
<code>path</code>	<code>string</code>		Optionally restrict to this path.
<code>content-type</code>	<code>string</code>		Optional content type for responses.

Schema

- [Tls Fields](#)

Tls Fields

Field	Type	Required	Description
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<code>cert</code>	<code>path</code> (<code>string</code>)	✓	Path to the certificate file. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>
<code>key</code>	<code>path</code> (<code>string</code>)	✓	Path to the private key file. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Internal Messages

Reference for the Internal Messages component in LyftData's DSL

Source: `reference/dsl/inputs/internal-messages.md`

Internal Messages (`internal-messages`)

Receive internal messages.

Messaging json

Minimal example

```
input:
  internal-messages: {}
```

JSON

```
{
  "input": { "internal-messages": {} } }
```

Contents

- [Minimal example](#)
- [Behavior](#)
- [Filtering](#)
- [Schema](#)

Behavior

Behavior

Field	Type	Required	Description
<code>limit</code> ✓	<code>number (integer)</code>		The number of times to run the input. Examples: <code>42</code> , <code>1.2e-10</code>

Filtering

> note

`filter-kind` supports several `runtime-artifact-*` values for historical reasons, but they currently behave the same as `system` . To match runtime-artifact traffic, filter by `filter-type` (for example `runtime-artifact-fetch`) and treat kind as a coarse `system` vs `user` split.

> Note

Filtering

Field	Type	Required	Description
<code>filter-kind</code>	<code>Filter Kind</code>		Specifies whether the message originated from the "system" or by the "user". Allowed values: <code>system</code> , <code>user</code> , <code>runtime-artifact-fetch</code> , <code>runtime-artifact-fetch-error</code> , <code>runtime-artifact-clear</code> , <code>runtime-artifact-clear-ack</code> , <code>runtime-artifact-fetch-reply</code> , <code>runtime-artifact-update</code> , <code>runtime-artifact-update-ack</code>
<code>filter-source</code>	<code>[Filter Source[]]</code> (#filter-source-options)		Specifies what process generated the message. Was it a "server", "worker" or "job"? Allowed values: <code>job</code> , <code>worker</code> , <code>server</code>
<code>filter-worker</code>	<code>string</code>		Specifies what worker to select.
<code>filter-job</code>	<code>string</code>		Specifies the name of the job that the message came from.
<code>filter-type</code>	<code>[Filter Type[]]</code> (#filter-type-options)		Specifies that particular types of message ought to match. Allowed values: <code>worker-licensed</code> , <code>worker-unlicensed</code> , <code>variable</code> , <code>variable-deleted</code> , <code>begin-shutting-down-job</code> , <code>begin-shutting-down-server</code> , <code>begin-shutting-down-worker</code> , <code>broadcast-job-thread-state</code> , <code>broadcast-server-thread-state</code> , <code>broadcast-worker-thread-state</code> , ...
<code>filter-tag</code>	<code>string</code>		Specifies that messages matched ought to carry a tag with a particular value. This only matches against user-generated messages.

Schema

- [Filter Kind Options](#)
- [Filter Source Options](#)
- [Filter Type Options](#)

Filter Kind Options

Value	Name	Description
<code>system</code>	<code>system</code>	System
<code>user</code>	<code>user</code>	User
<code>runtime-artifact-fetch</code>	<code>runtime-artifact-fetch</code>	Runtime Artifact Fetch
<code>runtime-artifact-fetch-error</code>	<code>runtime-artifact-fetch-error</code>	Runtime Artifact Fetch Error
<code>runtime-artifact-clear</code>	<code>runtime-artifact-clear</code>	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	<code>runtime-artifact-clear-ack</code>	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch-reply</code>	<code>runtime-artifact-fetch-reply</code>	Runtime Artifact Fetch Reply

<code>runtime-artifact-update</code>	runtime-artifact-update	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	runtime-artifact-update-ack	Runtime Artifact Update Ack

Filter Source Options

Value	Name	Description
<code>job</code>	job	Job
<code>worker</code>	worker	Worker
<code>server</code>	server	Server

Filter Type Options

Value	Name	Description
<code>worker-licensed</code>	worker-licensed	Worker Licensed
<code>worker-unlicensed</code>	worker-unlicensed	Worker Unlicensed
<code>variable</code>	variable	Variable
<code>variable-deleted</code>	variable-deleted	Variable Deleted
<code>begin-shutting-down-job</code>	begin-shutting-down-job	Begin Shutting Down Job
<code>begin-shutting-down-server</code>	begin-shutting-down-server	Begin Shutting Down Server
<code>begin-shutting-down-worker</code>	begin-shutting-down-worker	Begin Shutting Down Worker
<code>broadcast-job-thread-state</code>	broadcast-job-thread-state	Broadcast Job Thread State
<code>broadcast-server-thread-state</code>	broadcast-server-thread-state	Broadcast Server Thread State
<code>broadcast-worker-thread-state</code>	broadcast-worker-thread-state	Broadcast Worker Thread State
<code>check-job-report-time</code>	check-job-report-time	Check Job Report Time
<code>check-worker-report-time</code>	check-worker-report-time	Check Worker Report Time
<code>de-register-job-thread-dependency</code>	de-register-job-thread-dependency	De Register Job Thread Dependency
<code>de-register-server-thread-dependency</code>	de-register-server-thread-dependency	De Register Server Thread Dependency
<code>de-register-worker-thread-dependency</code>	de-register-worker-thread-dependency	De Register Worker Thread Dependency
<code>deployed-job-active</code>	deployed-job-active	Deployed Job Active
<code>deployed-job-removed</code>	deployed-job-removed	Deployed Job Removed
<code>deployed-job-should-be-running</code>	deployed-job-should-be-running	Deployed Job Should Be Running
<code>deployment-phase</code>	deployment-phase	Deployment Phase
<code>heart-beat</code>	heart-beat	Heart Beat

<code>initialise-internal-state</code>	initialise-internal-state	Initialise Internal State
<code>initialise-job-states</code>	initialise-job-states	Initialise Job States
<code>job-batch-end</code>	job-batch-end	Job Batch End
<code>job-backlog-update</code>	job-backlog-update	Job Backlog Update
<code>job-checkpoint-update</code>	job-checkpoint-update	Job Checkpoint Update
<code>job-deploy-ready</code>	job-deploy-ready	Job Deploy Ready
<code>job-deployed</code>	job-deployed	Job Deployed
<code>job-document-end</code>	job-document-end	Job Document End
<code>job-document-start</code>	job-document-start	Job Document Start
<code>job-errors</code>	job-errors	Job Errors
<code>job-execution-anomaly</code>	job-execution-anomaly	Job Execution Anomaly
<code>job-execution-status</code>	job-execution-status	Job Execution Status
<code>job-emit-custom</code>	job-emit-custom	Job Emit Custom
<code>job-finished</code>	job-finished	Job Finished
<code>job-idle</code>	job-idle	Job Idle
<code>job-initiated</code>	job-initiated	Job Initiated
<code>job-is-processing</code>	job-is-processing	Job Is Processing
<code>job-logs</code>	job-logs	Job Logs
<code>job-metrics</code>	job-metrics	Job Metrics
<code>job-notifications</code>	job-notifications	Job Notifications
<code>job-removing</code>	job-removing	Job Removing
<code>job-removed</code>	job-removed	Job Removed
<code>job-remove-failed</code>	job-remove-failed	Job Remove Failed
<code>job-remove-ready</code>	job-remove-ready	Job Remove Ready
<code>job-replaced</code>	job-replaced	Job Replaced
<code>job-required</code>	job-required	Job Required
<code>job-run-ended</code>	job-run-ended	Job Run Ended
<code>job-runtime-error</code>	job-runtime-error	Job Runtime Error
<code>job-runtime-settings</code>	job-runtime-settings	Job Runtime Settings
<code>job-run-started</code>	job-run-started	Job Run Started
<code>job-running-docker</code>	job-running-docker	Job Running Docker
<code>job-running-script</code>	job-running-script	Job Running Script

<code>job-running-subprocess</code>	job-running-subprocess	Job Running Subprocess
<code>job-running-system-d</code>	job-running-system-d	Job Running System D
<code>job-settings</code>	job-settings	Job Settings
<code>job-step-statistics</code>	job-step-statistics	Job Step Statistics
<code>job-started</code>	job-started	Job Started
<code>job-staged</code>	job-staged	Job Staged
<code>job-state-transition</code>	job-state-transition	Job State Transition
<code>job-shutting-down</code>	job-shutting-down	Job Shutting Down
<code>job-stopping</code>	job-stopping	Job Stopping
<code>job-stopped</code>	job-stopped	Job Stopped
<code>job-timed-out</code>	job-timed-out	Job Timed Out
<code>job-suspicious-silence</code>	job-suspicious-silence	Job Suspicious Silence
<code>job-thread-state</code>	job-thread-state	Job Thread State
<code>job-trace</code>	job-trace	Job Trace
<code>job-trace-requires-samples</code>	job-trace-requires-samples	Job Trace Requires Samples
<code>job-updated</code>	job-updated	Job Updated
<code>job-worker-comms-error</code>	job-worker-comms-error	Job Worker Comms Error
<code>job-unstaged</code>	job-unstaged	Job Unstaged
<code>license-state-changed</code>	license-state-changed	License State Changed
<code>license-validation-failed</code>	license-validation-failed	License Validation Failed
<code>license-validation-ok</code>	license-validation-ok	License Validation Ok
<code>license-volume-violation</code>	license-volume-violation	License Volume Violation
<code>new-license</code>	new-license	New License
<code>override-job-coordinated-shutdown</code>	override-job-coordinated-shutdown	Override Job Coordinated Shutdown
<code>override-server-coordinated-shutdown</code>	override-server-coordinated-shutdown	Override Server Coordinated Shutdown
<code>override-worker-coordinated-shutdown</code>	override-worker-coordinated-shutdown	Override Worker Coordinated Shutdown
<code>register-job-thread-dependency</code>	register-job-thread-dependency	Register Job Thread Dependency
<code>register-server-thread-dependency</code>	register-server-thread-dependency	Register Server Thread Dependency
<code>register-worker-thread-dependency</code>	register-worker-thread-dependency	Register Worker Thread Dependency
<code>run-job-failure</code>	run-job-failure	Run Job Failure

server-logs	server-logs	Server Logs
server-metrics-batch	server-metrics-batch	Server Metrics Batch
server-started	server-started	Server Started
server-starting	server-starting	Server Starting
server-stopping	server-stopping	Server Stopping
server-thread-state	server-thread-state	Server Thread State
server-worker-comms-error	server-worker-comms-error	Server Worker Comms Error
shutdown-jobs	shutdown-jobs	Shutdown Jobs
shutdown-worker	shutdown-worker	Shutdown Worker
system-shutdown	system-shutdown	System Shutdown
update-upstream-sync-for-job	update-upstream-sync-for-job	Update Upstream Sync For Job
update-upstream-sync-for-worker	update-upstream-sync-for-worker	Update Upstream Sync For Worker
update-variable	update-variable	Update Variable
user-alert	user-alert	User Alert
user-generated	user-generated	User Generated
trigger-response	trigger-response	Trigger Response
trigger-proxy-response	trigger-proxy-response	Trigger Proxy Response
user-notification	user-notification	User Notification
worker-command-for-job	worker-command-for-job	Worker Command For Job
worker-auth-lease-ack	worker-auth-lease-ack	Worker Auth Lease Ack
worker-connected	worker-connected	Worker Connected
worker-created	worker-created	Worker Created
worker-debug-heart-beat	worker-debug-heart-beat	Worker Debug Heart Beat
worker-error	worker-error	Worker Error
worker-first-seen	worker-first-seen	Worker First Seen
worker-heart-beat	worker-heart-beat	Worker Heart Beat
worker-logs	worker-logs	Worker Logs
worker-metrics-batch	worker-metrics-batch	Worker Metrics Batch
worker-offline	worker-offline	Worker Offline
worker-requests-auth-lease	worker-requests-auth-lease	Worker Requests Auth Lease
worker-server-comms-error	worker-server-comms-error	Worker Server Comms Error
worker-settings	worker-settings	Worker Settings

<code>worker-shutdown</code>	worker-shutdown	Worker Shutdown
<code>worker-shutting-down</code>	worker-shutting-down	Worker Shutting Down
<code>worker-started</code>	worker-started	Worker Started
<code>worker-state-uuid</code>	worker-state-uuid	Worker State Uuid
<code>worker-stopping</code>	worker-stopping	Worker Stopping
<code>worker-suspicious-silence</code>	worker-suspicious-silence	Worker Suspicious Silence
<code>worker-system-information</code>	worker-system-information	Worker System Information
<code>worker-thread-state</code>	worker-thread-state	Worker Thread State
<code>worker-updated</code>	worker-updated	Worker Updated
<code>worker-modified</code>	worker-modified	Worker Modified
<code>worker-removed</code>	worker-removed	Worker Removed
<code>context-changed</code>	context-changed	Context Changed
<code>rerender-deployment</code>	rerender-deployment	Rerender Deployment
<code>job-killed</code>	job-killed	Job Killed
<code>message-serviced</code>	message-serviced	Message Serviced
<code>failed-to-service-message</code>	failed-to-service-message	Failed To Service Message
<code>worker-wants-initial-settings</code>	worker-wants-initial-settings	Worker Wants Initial Settings
<code>worker-wants-initial-settings-reply</code>	worker-wants-initial-settings-reply	Worker Wants Initial Settings Reply
<code>worker-wants-deployed-jobs</code>	worker-wants-deployed-jobs	Worker Wants Deployed Jobs
<code>worker-wants-deployed-jobs-reply</code>	worker-wants-deployed-jobs-reply	Worker Wants Deployed Jobs Reply
<code>worker-wants-job-configuration</code>	worker-wants-job-configuration	Worker Wants Job Configuration
<code>worker-wants-job-configuration-reply</code>	worker-wants-job-configuration-reply	Worker Wants Job Configuration Reply
<code>job-wants-dslir-key</code>	job-wants-dslir-key	Job Wants Dslir Key
<code>job-wants-dslir-key-reply</code>	job-wants-dslir-key-reply	Job Wants Dslir Key Reply
<code>worker-wants-dslir-key</code>	worker-wants-dslir-key	Worker Wants Dslir Key
<code>worker-wants-dslir-key-reply</code>	worker-wants-dslir-key-reply	Worker Wants Dslir Key Reply
<code>job-wants-variables</code>	job-wants-variables	Job Wants Variables
<code>job-wants-variables-reply</code>	job-wants-variables-reply	Job Wants Variables Reply
<code>job-wants-credentials</code>	job-wants-credentials	Job Wants Credentials
<code>job-wants-credentials-reply</code>	job-wants-credentials-reply	Job Wants Credentials Reply

<code>job-wants-credentials-error</code>	job-wants-credentials-error	Job Wants Credentials Error
<code>job-wants-secret-variables-reply</code>	job-wants-secret-variables-reply	Job Wants Secret Variables Reply
<code>job-credentials-invalidated</code>	job-credentials-invalidated	Job Credentials Invalidated
<code>aggregator-health</code>	aggregator-health	Aggregator Health
<code>worker-aggregator-health</code>	worker-aggregator-health	Worker Aggregator Health
<code>worker-verification-token</code>	worker-verification-token	Worker Verification Token
<code>worker-requests-verification-token</code>	worker-requests-verification-token	Worker Requests Verification Token
<code>runtime-artifact-update</code>	runtime-artifact-update	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	runtime-artifact-update-ack	Runtime Artifact Update Ack
<code>runtime-artifact-clear</code>	runtime-artifact-clear	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch</code>	runtime-artifact-fetch	Runtime Artifact Fetch
<code>runtime-artifact-fetch-reply</code>	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
<code>runtime-artifact-fetch-error</code>	runtime-artifact-fetch-error	Runtime Artifact Fetch Error

Journald

Reference for the Journald component in LyftData's DSL

Source: [reference/dsl/inputs/journald.md](#)

Journald (`journald`)

Read events from systemd-journald (Linux-only).

Linux Enterprise edition json

Minimal example

```
input:
journald: {}
```

JSON

```
{
  "input": { "journald": {} } }
```

Contents

- [Minimal example](#)
- [Behaviour](#)
- [Debugging](#)
- [Filtering](#)
- [Schema](#)

Behaviour

Behaviour

Field	Type	Required	Description
<code>start-at-oldest</code> ✓	<code>boolean</code> (<code>bool</code>)		Start reading from the oldest available entry (clears any saved cursor). Default: <code>false</code>
<code>follow-boot</code> ✓	<code>boolean</code> (<code>bool</code>)		Continue reading past boot boundaries (ignore saved cursors from previous boots). Default: <code>false</code>

Debugging

Debugging

Field	Type	Required	Description
<code>debug-entry-payloads</code> ✓	<code>boolean</code> (<code>bool</code>)		Emit the raw journald entry payload alongside the parsed fields (verbose). Default: <code>false</code>

Filtering

Filtering

Field	Type	Required	Description								
<code>matches</code> ✓	<code>string[]</code>		Optional match filters in <code>FIELD=VALUE</code> form (systemd journal native syntax).								
<code>units</code> ✓	<code>string[]</code>		Optional systemd unit names to constrain journal reads.								
<code>priorities</code> ✓	<code>[Priorities[]]</code> (#priorities-options)		Optional priority filters (emerg	alert	crit	err	warning	notice	info	debug or numeric 0-7). Allowed values: <code>emerg</code> , <code>alert</code> , <code>crit</code> , <code>err</code> , <code>warning</code> , <code>notice</code> , <code>info</code> , <code>debug</code>	

Schema

- [Priorities Options](#)

Priorities Options

Value	Name	Description
<code>emerg</code>	emerg	Emerg
<code>alert</code>	alert	Alert
<code>crit</code>	crit	Crit
<code>err</code>	err	Err

warning	warning	Warning
notice	notice	Notice
info	info	Info
debug	debug	Debug

Kafka

Reference for the Kafka component in LyftData's DSL

Source: [reference/dsl/inputs/kafka.md](#)

Kafka (`kafka`)

Consume records from Kafka/Redpanda clusters.

Messaging Enterprise edition binary json raw

Minimal example

```
input:
kafka: bootstrap-servers: ""
```

JSON

```
{
  "input": { "kafka": { "bootstrap-servers": "" } } }
```

Contents

- [Minimal example](#)
- [Advanced](#)
- [Authentication](#)
- [Connection](#)
- [Cursor](#)
- [Payload](#)
- [Processing](#)
- [Reliability](#)
- [Schema](#)
- [Subscription](#)
- [Trigger](#)
- [Schema](#)

Advanced

Advanced

Field	Type	Required	Description
<code>global-options</code> ✓	<code>map</code> (<code>string</code>)		Additional librdkafka consumer configuration.

<code>topic-options</code> ✓	<code>map (string)</code>		Topic-level librdkafka configuration overrides.
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Authentication

Authentication

Field	Type	Required	Description
<code>auth</code>	<code>Kafka Authentication</code>		Authentication and TLS material.

Connection

Connection

Field	Type	Required	Description
<code>bootstrap-servers</code>	<code>hostname (string)</code>	✓	Comma separated bootstrap server list. Examples: <code>example.com</code> , <code>localhost</code>
<code>client-id</code>	<code>string</code>		Optional client identifier override.
<code>group-id</code>	<code>string</code>		Consumer group identifier (required for coordinated consumption).

Cursor

Cursor

Field	Type	Required	Description
<code>cursor</code>	<code>Kafka Cursor</code>		Cursor persistence configuration for incremental polling.

Payload

Payload

Field	Type	Required	Description
<code>payload</code>	<code>Kafka Payload Format</code>		Controls how payload bytes should be interpreted. Allowed values: <code>json</code> , <code>raw</code> , <code>avro-bridge</code>

Processing

Processing

Field	Type	Required	Description
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<code>batch</code>	<code>Batch</code>		Optional batching semantics shared with other inputs.
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Reliability

Reliability

Field	Type	Required	Description
<code>retry</code>	<code>Retry</code>		Retry configuration for transient failures.

Schema

Schema

Field	Type	Required	Description
<code>avro</code>	<code>Schema Registry</code>		Schema registry configuration (required for Avro bridge).

Subscription

Subscription

Field	Type	Required	Description
<code>topics</code>	<code>string[]</code>		Explicit list of topics to subscribe to.
<code>topic-pattern</code>	<code>string</code>		Regex pattern for dynamic topic subscription.
<code>partitions</code> ✓	<code>map (string)</code>		Explicit partition list per topic.
<code>assignments</code>	<code>[Assignments[]](#assignments-fields)</code>		Static assignments of topic/partition pairs.

Trigger

Trigger

Field	Type	Required	Description
<code>trigger</code>	<code>Trigger</code>		Run on the provided cadence; if omitted, this input runs exactly once. Allowed values: <code>message</code> , <code>cron</code> , <code>interval</code>

Schema

- [Trigger - Cron - Window - Window Start Options](#)
- [Trigger - Interval - Window - Window Start Options](#)
- [Trigger Options](#)
- [Kafka Authentication - Kafka SASL Fields](#)
- [Kafka Authentication - Kafka TLS Fields](#)

- [Kafka Authentication Fields](#)
- [Kafka Cursor Fields](#)
- [Batch Fields](#)
- [Retry Fields](#)
- [Schema Registry Fields](#)
- [Assignments Fields](#)
- [Trigger - Message Fields](#)
- [Trigger - Cron - Window - Window Start - Start Time Fields](#)
- [Trigger - Cron - Window Fields](#)
- [Trigger - Cron Fields](#)
- [Trigger - Interval - Window - Window Start - Start Time Fields](#)
- [Trigger - Interval - Window Fields](#)
- [Trigger - Interval Fields](#)
- [Global Options Table](#)
- [Topic Options Table](#)
- [Kafka Authentication - Kafka SASL - Extensions Table](#)
- [Kafka Authentication - Config Table](#)
- [Kafka Cursor - Per Partition Table](#)
- [Kafka Authentication - Kafka SASL - Kafka SASL Mechanism Options](#)
- [Kafka Cursor - Cursor Mode Options](#)
- [Kafka Payload Format Options](#)
- [Trigger - Message - Filter Kind Options](#)
- [Trigger - Message - Filter Source Options](#)
- [Trigger - Message - Filter Type Options](#)

Trigger - Cron - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	object	
<code>tracked</code>	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	object	
<code>tracked</code>	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger Options

Option	Name	Type	Description
<code>message</code>	Message	object	
<code>cron</code>	Cron	object	
<code>interval</code>	Interval	object	

Kafka Authentication - Kafka SASL Fields

Field	Type	Required	Description
<code>mechanism</code>	Kafka SASL Mechanism	<input checked="" type="checkbox"/>	Allowed values: <code>plain</code> , <code>scram-sha256</code> , <code>scram-sha512</code> , <code>o-auth-bearer</code>
<code>username</code> ✓	<code>string</code>		
<code>password</code> ✓	<code>string</code>		
<code>token</code> ✓	<code>string</code>		
<code>token-command</code> ✓	<code>string</code>		
<code>extensions</code> ✓	<code>map (string)</code>		

Kafka Authentication - Kafka TLS Fields

Field	Type	Required	Description
<code>ca-certificate</code>	<code>string</code>		
<code>client-certificate</code>	<code>string</code>		
<code>client-key</code>	<code>string</code>		
<code>insecure-skip-verify</code> ✓	<code>boolean (bool)</code>		Default: <code>false</code>

Kafka Authentication Fields

Field	Type	Required	Description
<code>sasl</code>	Kafka SASL		
<code>tls</code>	Kafka TLS		
<code>config</code> ✓	<code>map (string)</code>		Additional librdkafka configuration forwarded verbatim.

Kafka Cursor Fields

Field	Type	Required	Description
<code>mode</code>	Cursor Mode		Default: <code>offset</code> Allowed values: <code>offset</code> , <code>timestamp</code> , <code>custom</code>
<code>persist-to</code>	<code>string</code>		
<code>initial-offset</code>	<code>string</code>		
<code>initial-timestamp</code>	<code>string</code>		
<code>per-partition</code>	<code>map (string)</code>		Per-topic/partition initial offsets in the form <code>topic:partition</code> -> offset.

<code>custom-value</code>	<code>string</code>		
<code>state-id</code>	<code>string</code>		Optional human-readable identifier used to stabilise cursor persistence across redeployments.

Batch Fields

Field	Type	Required	Description
<code>uuid-field</code>	<code>field</code> (<code>string</code>)		Field where generated uuid, the unique marker for the group, will be stored. Examples: <code>data_field</code>
<code>invocation-time-field</code>	<code>field</code> (<code>string</code>)		Field where invocation time will be stored. Examples: <code>data_field</code>
<code>completion-time-field</code>	<code>field</code> (<code>string</code>)		Field where completion (end of execution) time will be stored. Examples: <code>data_field</code>
<code>begin-marker-field</code>	<code>field</code> (<code>string</code>)		Field used to mark first event in the group. Examples: <code>data_field</code>
<code>end-marker-field</code>	<code>field</code> (<code>string</code>)		Field used to mark last event in the group. Examples: <code>data_field</code>
<code>line-count-field</code>	<code>field</code> (<code>string</code>)		Field used to store the line count of the batch. Examples: <code>data_field</code>
<code>line-num-field</code>	<code>field</code> (<code>string</code>)		Field used to store the line number of the batch. Examples: <code>data_field</code>

Retry Fields

Field	Type	Required	Description
<code>timeout</code>	<code>time-interval</code> (<code>string</code>)	<input checked="" type="checkbox"/>	timeout (e.g. 500ms, 2s etc. - default is 30). Examples: <code>500ms</code> , <code>2h</code>
<code>retries</code>	<code>number</code> (<code>integer</code>)		number of retries. Examples: <code>42</code> , <code>1.2e-10</code>

Schema Registry Fields

Field	Type	Required	Description
<code>url</code>	<code>url</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Examples: <code>https://example.com/path</code>
<code>username</code>	<code>string</code>		
<code>password</code>	<code>string</code>		
<code>access-token</code>	<code>string</code>		
<code>subject-suffix</code>	<code>string</code>		Optional suffix appended to subject names (e.g. <code>-value</code>).

<code>use-latest</code> ✓	<code>boolean</code> (<code>bool</code>)	When true, fetch the latest compatible schema instead of an explicit version. Default: <code>false</code>
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Assignments Fields

Field	Type	Required	Description
<code>topic</code>	<code>string</code>	✓	
<code>partition</code> ✓	<code>string</code>	✓	
<code>offset</code>	<code>string</code>		

Trigger - Message Fields

Field	Type	Required	Description
<code>limit</code> ✓	<code>number</code> (<code>integer</code>)		The number of times to run the input. Examples: <code>42</code> , <code>1.2e-10</code>
<code>filter-kind</code>	<code>Filter Kind</code>		Specifies whether the message originated from the "system" or by the "user". Allowed values: <code>system</code> , <code>user</code> , <code>runtime-artifact-fetch</code> , <code>runtime-artifact-fetch-error</code> , <code>runtime-artifact-clear</code> , <code>runtime-artifact-clear-ack</code> , <code>runtime-artifact-fetch-reply</code> , <code>runtime-artifact-update</code> , <code>runtime-artifact-update-ack</code>
<code>filter-source</code>	[<code>Filter Source[]</code>] (#trigger-message-filter-source-options)		Specifies what process generated the message. Was it a "server", "worker" or "job"? Allowed values: <code>job</code> , <code>worker</code> , <code>server</code>
<code>filter-worker</code>	<code>string</code>		Specifies what worker to select.
<code>filter-job</code>	<code>string</code>		Specifies the name of the job that the message came from.
<code>filter-type</code>	[<code>Filter Type[]</code>] (#trigger-message-filter-type-options)		Specifies that particular types of message ought to match. Allowed values: <code>worker-licensed</code> , <code>worker-unlicensed</code> , <code>variable</code> , <code>variable-deleted</code> , <code>begin-shutting-down-job</code> , <code>begin-shutting-down-server</code> , <code>begin-shutting-down-worker</code> , <code>broadcast-job-thread-state</code> , <code>broadcast-server-thread-state</code> , <code>broadcast-worker-thread-state</code> , ...
<code>filter-tag</code>	<code>string</code>		Specifies that messages matched ought to carry a tag with a particular value. This only matches against user-generated messages.

Trigger - Cron - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (<code>string</code>)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>

<code>highwatermark-file</code>	<code>path</code> (string)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>
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Trigger - Cron - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (string)	✓	Window size.
<code>offset</code>	<code>duration</code> (string)		Window offset. Default: <code>0s</code>
<code>start</code>	Window Start		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Cron Fields

Field	Type	Required	Description
<code>cron</code>	<code>cron-expression</code> (string)	✓	The Cron pattern.
<code>immediate</code> ✓	<code>boolean</code> (bool)		Run as soon as invoked, instead of waiting for the specified cron interval. Default: <code>false</code>
<code>random-offset</code>	<code>duration</code> (string)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	Window		Optional window definition when the schedule should only read a bounded range.

Trigger - Interval - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (string)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (string)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (string)	✓	Window size.
<code>offset</code>	<code>duration</code> (string)		Window offset. Default: <code>0s</code>

<code>start</code>	<code>Window Start</code>	Specify file where timestamp would be stored in order to resume, for when job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>
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Trigger - Interval Fields

Field	Type	Required	Description
<code>duration</code>	<code>duration</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Duration to wait between events.
<code>random-offset</code>	<code>duration</code> (<code>string</code>)	<input type="checkbox"/>	Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	<code>Window</code>	<input type="checkbox"/>	Optional window definition when the interval should only cover a bounded range.

Global Options Table

Option	Value
<code>option.name</code>	<code>value</code>

Value format: `templated-text` .

Topic Options Table

Topic option	Value
<code>option.name</code>	<code>value</code>

Value format: `templated-text` .

Kafka Authentication - Kafka SASL - Extensions Table

Extension	Value
<code>key</code>	<code>value</code>

Value format: `templated-text` .

Kafka Authentication - Config Table

Option	Value
<code>option.name</code>	<code>value</code>

Value format: `templated-text` .

Kafka Cursor - Per Partition Table

Topic:Partition	Offset
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<code>topic:partition</code>	<code>offset</code>
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Kafka Authentication - Kafka SASL - Kafka SASL Mechanism Options

Value	Name	Description
<code>plain</code>	plain	Plain
<code>scram-sha256</code>	scram-sha256	Scram Sha256
<code>scram-sha512</code>	scram-sha512	Scram Sha512
<code>o-auth-bearer</code>	o-auth-bearer	O Auth Bearer

Kafka Cursor - Cursor Mode Options

Value	Name	Description
<code>offset</code>	offset	Offset
<code>timestamp</code>	timestamp	Timestamp
<code>custom</code>	custom	Custom

Kafka Payload Format Options

Value	Name	Description
<code>json</code>	json	Json
<code>raw</code>	raw	Raw
<code>avro-bridge</code>	avro-bridge	Avro Bridge

Trigger - Message - Filter Kind Options

Value	Name	Description
<code>system</code>	system	System
<code>user</code>	user	User
<code>runtime-artifact-fetch</code>	runtime-artifact-fetch	Runtime Artifact Fetch
<code>runtime-artifact-fetch-error</code>	runtime-artifact-fetch-error	Runtime Artifact Fetch Error
<code>runtime-artifact-clear</code>	runtime-artifact-clear	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch-reply</code>	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
<code>runtime-artifact-update</code>	runtime-artifact-update	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	runtime-artifact-update-ack	Runtime Artifact Update Ack

Trigger - Message - Filter Source Options

Value	Name	Description
job	job	Job
worker	worker	Worker
server	server	Server

Trigger - Message - Filter Type Options

Value	Name	Description
worker-licensed	worker-licensed	Worker Licensed
worker-unlicensed	worker-unlicensed	Worker Unlicensed
variable	variable	Variable
variable-deleted	variable-deleted	Variable Deleted
begin-shutting-down-job	begin-shutting-down-job	Begin Shutting Down Job
begin-shutting-down-server	begin-shutting-down-server	Begin Shutting Down Server
begin-shutting-down-worker	begin-shutting-down-worker	Begin Shutting Down Worker
broadcast-job-thread-state	broadcast-job-thread-state	Broadcast Job Thread State
broadcast-server-thread-state	broadcast-server-thread-state	Broadcast Server Thread State
broadcast-worker-thread-state	broadcast-worker-thread-state	Broadcast Worker Thread State
check-job-report-time	check-job-report-time	Check Job Report Time
check-worker-report-time	check-worker-report-time	Check Worker Report Time
de-register-job-thread-dependency	de-register-job-thread-dependency	De Register Job Thread Dependency
de-register-server-thread-dependency	de-register-server-thread-dependency	De Register Server Thread Dependency
de-register-worker-thread-dependency	de-register-worker-thread-dependency	De Register Worker Thread Dependency
deployed-job-active	deployed-job-active	Deployed Job Active
deployed-job-removed	deployed-job-removed	Deployed Job Removed
deployed-job-should-be-running	deployed-job-should-be-running	Deployed Job Should Be Running
deployment-phase	deployment-phase	Deployment Phase
heart-beat	heart-beat	Heart Beat
initialise-internal-state	initialise-internal-state	Initialise Internal State
initialise-job-states	initialise-job-states	Initialise Job States

<code>job-batch-end</code>	job-batch-end	Job Batch End
<code>job-backlog-update</code>	job-backlog-update	Job Backlog Update
<code>job-checkpoint-update</code>	job-checkpoint-update	Job Checkpoint Update
<code>job-deploy-ready</code>	job-deploy-ready	Job Deploy Ready
<code>job-deployed</code>	job-deployed	Job Deployed
<code>job-document-end</code>	job-document-end	Job Document End
<code>job-document-start</code>	job-document-start	Job Document Start
<code>job-errors</code>	job-errors	Job Errors
<code>job-execution-anomaly</code>	job-execution-anomaly	Job Execution Anomaly
<code>job-execution-status</code>	job-execution-status	Job Execution Status
<code>job-emit-custom</code>	job-emit-custom	Job Emit Custom
<code>job-finished</code>	job-finished	Job Finished
<code>job-idle</code>	job-idle	Job Idle
<code>job-initiated</code>	job-initiated	Job Initiated
<code>job-is-processing</code>	job-is-processing	Job Is Processing
<code>job-logs</code>	job-logs	Job Logs
<code>job-metrics</code>	job-metrics	Job Metrics
<code>job-notifications</code>	job-notifications	Job Notifications
<code>job-removing</code>	job-removing	Job Removing
<code>job-removed</code>	job-removed	Job Removed
<code>job-remove-failed</code>	job-remove-failed	Job Remove Failed
<code>job-remove-ready</code>	job-remove-ready	Job Remove Ready
<code>job-replaced</code>	job-replaced	Job Replaced
<code>job-required</code>	job-required	Job Required
<code>job-run-ended</code>	job-run-ended	Job Run Ended
<code>job-runtime-error</code>	job-runtime-error	Job Runtime Error
<code>job-runtime-settings</code>	job-runtime-settings	Job Runtime Settings
<code>job-run-started</code>	job-run-started	Job Run Started
<code>job-running-docker</code>	job-running-docker	Job Running Docker
<code>job-running-script</code>	job-running-script	Job Running Script
<code>job-running-subprocess</code>	job-running-subprocess	Job Running Subprocess
<code>job-running-system-d</code>	job-running-system-d	Job Running System D

job-settings	job-settings	Job Settings
job-step-statistics	job-step-statistics	Job Step Statistics
job-started	job-started	Job Started
job-staged	job-staged	Job Staged
job-state-transition	job-state-transition	Job State Transition
job-shutting-down	job-shutting-down	Job Shutting Down
job-stopping	job-stopping	Job Stopping
job-stopped	job-stopped	Job Stopped
job-timed-out	job-timed-out	Job Timed Out
job-suspicious-silence	job-suspicious-silence	Job Suspicious Silence
job-thread-state	job-thread-state	Job Thread State
job-trace	job-trace	Job Trace
job-trace-requires-samples	job-trace-requires-samples	Job Trace Requires Samples
job-updated	job-updated	Job Updated
job-worker-comms-error	job-worker-comms-error	Job Worker Comms Error
job-unstaged	job-unstaged	Job Unstaged
license-state-changed	license-state-changed	License State Changed
license-validation-failed	license-validation-failed	License Validation Failed
license-validation-ok	license-validation-ok	License Validation Ok
license-volume-violation	license-volume-violation	License Volume Violation
new-license	new-license	New License
override-job-coordinated-shutdown	override-job-coordinated-shutdown	Override Job Coordinated Shutdown
override-server-coordinated-shutdown	override-server-coordinated-shutdown	Override Server Coordinated Shutdown
override-worker-coordinated-shutdown	override-worker-coordinated-shutdown	Override Worker Coordinated Shutdown
register-job-thread-dependency	register-job-thread-dependency	Register Job Thread Dependency
register-server-thread-dependency	register-server-thread-dependency	Register Server Thread Dependency
register-worker-thread-dependency	register-worker-thread-dependency	Register Worker Thread Dependency
run-job-failure	run-job-failure	Run Job Failure
server-logs	server-logs	Server Logs
server-metrics-batch	server-metrics-batch	Server Metrics Batch

server-started	server-started	Server Started
server-starting	server-starting	Server Starting
server-stopping	server-stopping	Server Stopping
server-thread-state	server-thread-state	Server Thread State
server-worker-comms-error	server-worker-comms-error	Server Worker Comms Error
shutdown-jobs	shutdown-jobs	Shutdown Jobs
shutdown-worker	shutdown-worker	Shutdown Worker
system-shutdown	system-shutdown	System Shutdown
update-upstream-sync-for-job	update-upstream-sync-for-job	Update Upstream Sync For Job
update-upstream-sync-for-worker	update-upstream-sync-for-worker	Update Upstream Sync For Worker
update-variable	update-variable	Update Variable
user-alert	user-alert	User Alert
user-generated	user-generated	User Generated
user-notification	user-notification	User Notification
worker-command-for-job	worker-command-for-job	Worker Command For Job
worker-auth-lease-ack	worker-auth-lease-ack	Worker Auth Lease Ack
worker-connected	worker-connected	Worker Connected
worker-created	worker-created	Worker Created
worker-debug-heart-beat	worker-debug-heart-beat	Worker Debug Heart Beat
worker-error	worker-error	Worker Error
worker-first-seen	worker-first-seen	Worker First Seen
worker-heart-beat	worker-heart-beat	Worker Heart Beat
worker-logs	worker-logs	Worker Logs
worker-metrics-batch	worker-metrics-batch	Worker Metrics Batch
worker-offline	worker-offline	Worker Offline
worker-requests-auth-lease	worker-requests-auth-lease	Worker Requests Auth Lease
worker-server-comms-error	worker-server-comms-error	Worker Server Comms Error
worker-settings	worker-settings	Worker Settings
worker-shutdown	worker-shutdown	Worker Shutdown
worker-shutting-down	worker-shutting-down	Worker Shutting Down
worker-started	worker-started	Worker Started
worker-state-uuid	worker-state-uuid	Worker State Uuid

worker-stopping	worker-stopping	Worker Stopping
worker-suspicious-silence	worker-suspicious-silence	Worker Suspicious Silence
worker-system-information	worker-system-information	Worker System Information
worker-thread-state	worker-thread-state	Worker Thread State
worker-updated	worker-updated	Worker Updated
worker-modified	worker-modified	Worker Modified
worker-removed	worker-removed	Worker Removed
context-changed	context-changed	Context Changed
rerender-deployment	rerender-deployment	Rerender Deployment
job-killed	job-killed	Job Killed
message-serviced	message-serviced	Message Serviced
failed-to-service-message	failed-to-service-message	Failed To Service Message
worker-wants-initial-settings	worker-wants-initial-settings	Worker Wants Initial Settings
worker-wants-initial-settings-reply	worker-wants-initial-settings-reply	Worker Wants Initial Settings Reply
worker-wants-deployed-jobs	worker-wants-deployed-jobs	Worker Wants Deployed Jobs
worker-wants-deployed-jobs-reply	worker-wants-deployed-jobs-reply	Worker Wants Deployed Jobs Reply
worker-wants-job-configuration	worker-wants-job-configuration	Worker Wants Job Configuration
worker-wants-job-configuration-reply	worker-wants-job-configuration-reply	Worker Wants Job Configuration Reply
job-wants-dslir-key	job-wants-dslir-key	Job Wants Dslir Key
job-wants-dslir-key-reply	job-wants-dslir-key-reply	Job Wants Dslir Key Reply
worker-wants-dslir-key	worker-wants-dslir-key	Worker Wants Dslir Key
worker-wants-dslir-key-reply	worker-wants-dslir-key-reply	Worker Wants Dslir Key Reply
job-wants-variables	job-wants-variables	Job Wants Variables
job-wants-variables-reply	job-wants-variables-reply	Job Wants Variables Reply
job-wants-credentials	job-wants-credentials	Job Wants Credentials
job-wants-credentials-reply	job-wants-credentials-reply	Job Wants Credentials Reply
job-wants-credentials-error	job-wants-credentials-error	Job Wants Credentials Error
job-wants-secret-variables-reply	job-wants-secret-variables-reply	Job Wants Secret Variables Reply
job-credentials-invalidated	job-credentials-invalidated	Job Credentials Invalidated
aggregator-health	aggregator-health	Aggregator Health

<code>worker-aggregator-health</code>	worker-aggregator-health	Worker Aggregator Health
<code>worker-verification-token</code>	worker-verification-token	Worker Verification Token
<code>worker-requests-verification-token</code>	worker-requests-verification-token	Worker Requests Verification Token
<code>runtime-artifact-update</code>	runtime-artifact-update	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	runtime-artifact-update-ack	Runtime Artifact Update Ack
<code>runtime-artifact-clear</code>	runtime-artifact-clear	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch</code>	runtime-artifact-fetch	Runtime Artifact Fetch
<code>runtime-artifact-fetch-reply</code>	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
<code>runtime-artifact-fetch-error</code>	runtime-artifact-fetch-error	Runtime Artifact Fetch Error

Microsoft Graph

Reference for the Microsoft Graph component in LyftData's DSL

Source: [reference/dsl/inputs/microsoft-graph.md](#)

Microsoft Graph (`microsoft-graph`)

Ingest data from Microsoft Graph resources such as mail, calendars, or directory objects via REST calls.

API Microsoft Enterprise edition json

Minimal example

```
input:
microsoft-graph: credential: "" credential-scope-mode: allowed resource: ~
```

JSON

```
{
  "input": { "microsoft-graph": { "credential": "", "credential-scope-mode": "allowed",
    "resource": null } } }
```

Contents

- [Minimal example](#)
- [Authentication](#)
- [Batching](#)
- [Delta Sync](#)
- [Payload](#)
- [Reliability](#)
- [Request](#)
- [Trigger](#)
- [Schema](#)

Authentication

Authentication

Field	Type	Required	Description
<code>credential</code>	<code>credential-id</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Credential identifier managed by the credential manager. Examples: <code>2b64d2a0-0b76-4cd0-9ef0-3f0ef3d2a9a1</code>

<code>credential-scope-mode</code>	<code>Credential scope mode</code>	✓	How to choose the scopes bound to this job when using the credential. Allowed values: <code>allowed</code> , <code>custom</code>
<code>credential-scopes</code>	<code>string[]</code>		Custom scopes to bind to this job when <code>credential-scope-mode</code> is <code>custom</code> .

Batching

Batching

Field	Type	Required	Description
<code>batch</code>	<code>Batch</code>		Batch configuration when issuing bulk requests (for example, large message pulls).

Delta Sync

Delta Sync

Field	Type	Required	Description
<code>delta</code>	<code>Delta</code>		Delta synchronization settings that let the connector resume where it left off.

Payload

Payload

Field	Type	Required	Description
<code>payload-mode</code> ✓	<code>Payload Mode</code>		Payload mode describing how events should be emitted (JSON vs binary). Default: <code>json</code> Allowed values: <code>auto</code> , <code>json</code> , <code>raw</code> , <code>binary</code>

Reliability

Reliability

Field	Type	Required	Description
<code>retry</code>	<code>Retry</code>		Retry policy to use when Microsoft Graph returns errors or throttling responses.

Request

Request

Field	Type	Required	Description
<code>resource</code>	<code>string</code>	✓	Graph resource path (e.g. <code>/users/{user-id}/messages</code>).

<code>api-version</code> ✓	<code>Microsoft Graph API Version</code>		API version to target (<code>v1.0</code> stable or <code>beta</code>). Default: <code>v1.0</code> Allowed values: <code>v1</code> , <code>beta</code>
<code>query</code>	<code>map</code> (<code>string</code>)		Optional querystring parameters appended to every request.

Trigger

Trigger

Field	Type	Required	Description
<code>trigger</code>	<code>Trigger</code>		Interval-based polling schedule. Leave empty to run once when the job starts. Allowed values: <code>message</code> , <code>cron</code> , <code>interval</code>

Schema

- [Trigger - Cron - Window - Window Start Options](#)
- [Trigger - Interval - Window - Window Start Options](#)
- [Trigger Options](#)
- [Batch Fields](#)
- [Delta Fields](#)
- [Retry Fields](#)
- [Trigger - Message Fields](#)
- [Trigger - Cron - Window - Window Start - Start Time Fields](#)
- [Trigger - Cron - Window Fields](#)
- [Trigger - Cron Fields](#)
- [Trigger - Interval - Window - Window Start - Start Time Fields](#)
- [Trigger - Interval - Window Fields](#)
- [Trigger - Interval Fields](#)
- [Query Table](#)
- [Credential scope mode Options](#)
- [Payload Mode Options](#)
- [Microsoft Graph API Version Options](#)
- [Trigger - Message - Filter Kind Options](#)
- [Trigger - Message - Filter Source Options](#)
- [Trigger - Message - Filter Type Options](#)

Trigger - Cron - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	<code>Start Time</code>	<code>object</code>	
<code>tracked</code>	<code>Tracked</code>	<code>string</code>	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window - Window Start Options

Option	Name	Type	Description
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<code>start-time</code>	Start Time	<code>object</code>	
<code>tracked</code>	Tracked	<code>string</code>	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger Options

Option	Name	Type	Description
<code>message</code>	Message	<code>object</code>	
<code>cron</code>	Cron	<code>object</code>	
<code>interval</code>	Interval	<code>object</code>	

Batch Fields

Field	Type	Required	Description
<code>uuid-field</code>	<code>field</code> (<code>string</code>)		Field where generated uuid, the unique marker for the group, will be stored. Examples: <code>data_field</code>
<code>invocation-time-field</code>	<code>field</code> (<code>string</code>)		Field where invocation time will be stored. Examples: <code>data_field</code>
<code>completion-time-field</code>	<code>field</code> (<code>string</code>)		Field where completion (end of execution) time will be stored. Examples: <code>data_field</code>
<code>begin-marker-field</code>	<code>field</code> (<code>string</code>)		Field used to mark first event in the group. Examples: <code>data_field</code>
<code>end-marker-field</code>	<code>field</code> (<code>string</code>)		Field used to mark last event in the group. Examples: <code>data_field</code>
<code>line-count-field</code>	<code>field</code> (<code>string</code>)		Field used to store the line count of the batch. Examples: <code>data_field</code>
<code>line-num-field</code>	<code>field</code> (<code>string</code>)		Field used to store the line number of the batch. Examples: <code>data_field</code>

Delta Fields

Field	Type	Required	Description
<code>persist-to</code>	<code>string</code>		Path where delta state should be persisted.
<code>initial-url</code>	<code>string</code>		Seed delta link when starting from an external checkpoint.

Retry Fields

Field	Type	Required	Description
<code>timeout</code>	<code>time-interval</code> (<code>string</code>)	<input checked="" type="checkbox"/>	timeout (e.g. 500ms, 2s etc. - default is 30). Examples: <code>500ms</code> , <code>2h</code>
<code>retries</code>	<code>number</code> (<code>integer</code>)		number of retries. Examples: <code>42</code> , <code>1.2e-10</code>

Trigger - Message Fields

Field	Type	Required	Description
<code>limit</code> ✓	<code>number</code> (<code>integer</code>)		The number of times to run the input. Examples: <code>42</code> , <code>1.2e-10</code>
<code>filter-kind</code>	<code>Filter Kind</code>		Specifies whether the message originated from the "system" or by the "user". Allowed values: <code>system</code> , <code>user</code> , <code>runtime-artifact-fetch</code> , <code>runtime-artifact-fetch-error</code> , <code>runtime-artifact-clear</code> , <code>runtime-artifact-clear-ack</code> , <code>runtime-artifact-fetch-reply</code> , <code>runtime-artifact-update</code> , <code>runtime-artifact-update-ack</code>
<code>filter-source</code>	[<code>Filter Source[]</code>] (#trigger-message-filter-source-options)		Specifies what process generated the message. Was it a "server", "worker" or "job"? Allowed values: <code>job</code> , <code>worker</code> , <code>server</code>
<code>filter-worker</code>	<code>string</code>		Specifies what worker to select.
<code>filter-job</code>	<code>string</code>		Specifies the name of the job that the message came from.
<code>filter-type</code>	[<code>Filter Type[]</code>] (#trigger-message-filter-type-options)		Specifies that particular types of message ought to match. Allowed values: <code>worker-licensed</code> , <code>worker-unlicensed</code> , <code>variable</code> , <code>variable-deleted</code> , <code>begin-shutting-down-job</code> , <code>begin-shutting-down-server</code> , <code>begin-shutting-down-worker</code> , <code>broadcast-job-thread-state</code> , <code>broadcast-server-thread-state</code> , <code>broadcast-worker-thread-state</code> , ...
<code>filter-tag</code>	<code>string</code>		Specifies that messages matched ought to carry a tag with a particular value. This only matches against user-generated messages.

Trigger - Cron - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (<code>string</code>)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (<code>string</code>)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Cron - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (<code>string</code>)	✓	Window size.
<code>offset</code>	<code>duration</code> (<code>string</code>)		Window offset. Default: <code>0s</code>

<code>start</code>	<code>Window Start</code>		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>
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Trigger - Cron Fields

Field	Type	Required	Description
<code>cron</code>	<code>cron-expression</code> (<code>string</code>)	<input checked="" type="checkbox"/>	The Cron pattern.
<code>immediate</code> ✓	<code>boolean</code> (<code>bool</code>)		Run as soon as invoked, instead of waiting for the specified cron interval. Default: <code>false</code>
<code>random-offset</code>	<code>duration</code> (<code>string</code>)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	<code>Window</code>		Optional window definition when the schedule should only read a bounded range.

Trigger - Interval - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Window size.
<code>offset</code>	<code>duration</code> (<code>string</code>)		Window offset. Default: <code>0s</code>
<code>start</code>	<code>Window Start</code>		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Interval Fields

Field	Type	Required	Description
<code>duration</code>	<code>duration</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Duration to wait between events.
<code>random-offset</code>	<code>duration</code> (<code>string</code>)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>

<code>window</code>	<code>Window</code>	Optional window definition when the interval should only cover a bounded range.
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Query Table

Parameter	Value
<code>param</code>	<code>value</code>

Value format: `templated-text`.

Credential scope mode Options

Value	Name	Description
<code>allowed</code>	allowed	Allowed
<code>custom</code>	custom	Custom

Payload Mode Options

Value	Name	Description
<code>auto</code>	auto	Auto
<code>json</code>	json	Json
<code>raw</code>	raw	Raw
<code>binary</code>	binary	Binary

Microsoft Graph API Version Options

Value	Name	Description
<code>v1</code>	v1	V1
<code>beta</code>	beta	Beta

Trigger - Message - Filter Kind Options

Value	Name	Description
<code>system</code>	system	System
<code>user</code>	user	User
<code>runtime-artifact-fetch</code>	runtime-artifact-fetch	Runtime Artifact Fetch
<code>runtime-artifact-fetch-error</code>	runtime-artifact-fetch-error	Runtime Artifact Fetch Error
<code>runtime-artifact-clear</code>	runtime-artifact-clear	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	runtime-artifact-clear-ack	Runtime Artifact Clear Ack

<code>runtime-artifact-fetch-reply</code>	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
<code>runtime-artifact-update</code>	runtime-artifact-update	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	runtime-artifact-update-ack	Runtime Artifact Update Ack

Trigger - Message - Filter Source Options

Value	Name	Description
<code>job</code>	job	Job
<code>worker</code>	worker	Worker
<code>server</code>	server	Server

Trigger - Message - Filter Type Options

Value	Name	Description
<code>worker-licensed</code>	worker-licensed	Worker Licensed
<code>worker-unlicensed</code>	worker-unlicensed	Worker Unlicensed
<code>variable</code>	variable	Variable
<code>variable-deleted</code>	variable-deleted	Variable Deleted
<code>begin-shutting-down-job</code>	begin-shutting-down-job	Begin Shutting Down Job
<code>begin-shutting-down-server</code>	begin-shutting-down-server	Begin Shutting Down Server
<code>begin-shutting-down-worker</code>	begin-shutting-down-worker	Begin Shutting Down Worker
<code>broadcast-job-thread-state</code>	broadcast-job-thread-state	Broadcast Job Thread State
<code>broadcast-server-thread-state</code>	broadcast-server-thread-state	Broadcast Server Thread State
<code>broadcast-worker-thread-state</code>	broadcast-worker-thread-state	Broadcast Worker Thread State
<code>check-job-report-time</code>	check-job-report-time	Check Job Report Time
<code>check-worker-report-time</code>	check-worker-report-time	Check Worker Report Time
<code>de-register-job-thread-dependency</code>	de-register-job-thread-dependency	De Register Job Thread Dependency
<code>de-register-server-thread-dependency</code>	de-register-server-thread-dependency	De Register Server Thread Dependency
<code>de-register-worker-thread-dependency</code>	de-register-worker-thread-dependency	De Register Worker Thread Dependency
<code>deployed-job-active</code>	deployed-job-active	Deployed Job Active
<code>deployed-job-removed</code>	deployed-job-removed	Deployed Job Removed
<code>deployed-job-should-be-running</code>	deployed-job-should-be-running	Deployed Job Should Be Running
<code>deployment-phase</code>	deployment-phase	Deployment Phase

heart-beat	heart-beat	Heart Beat
initialise-internal-state	initialise-internal-state	Initialise Internal State
initialise-job-states	initialise-job-states	Initialise Job States
job-batch-end	job-batch-end	Job Batch End
job-backlog-update	job-backlog-update	Job Backlog Update
job-checkpoint-update	job-checkpoint-update	Job Checkpoint Update
job-deploy-ready	job-deploy-ready	Job Deploy Ready
job-deployed	job-deployed	Job Deployed
job-document-end	job-document-end	Job Document End
job-document-start	job-document-start	Job Document Start
job-errors	job-errors	Job Errors
job-execution-anomaly	job-execution-anomaly	Job Execution Anomaly
job-execution-status	job-execution-status	Job Execution Status
job-emit-custom	job-emit-custom	Job Emit Custom
job-finished	job-finished	Job Finished
job-idle	job-idle	Job Idle
job-initiated	job-initiated	Job Initiated
job-is-processing	job-is-processing	Job Is Processing
job-logs	job-logs	Job Logs
job-metrics	job-metrics	Job Metrics
job-notifications	job-notifications	Job Notifications
job-removing	job-removing	Job Removing
job-removed	job-removed	Job Removed
job-remove-failed	job-remove-failed	Job Remove Failed
job-remove-ready	job-remove-ready	Job Remove Ready
job-replaced	job-replaced	Job Replaced
job-required	job-required	Job Required
job-run-ended	job-run-ended	Job Run Ended
job-runtime-error	job-runtime-error	Job Runtime Error
job-runtime-settings	job-runtime-settings	Job Runtime Settings
job-run-started	job-run-started	Job Run Started
job-running-docker	job-running-docker	Job Running Docker

<code>job-running-script</code>	job-running-script	Job Running Script
<code>job-running-subprocess</code>	job-running-subprocess	Job Running Subprocess
<code>job-running-system-d</code>	job-running-system-d	Job Running System D
<code>job-settings</code>	job-settings	Job Settings
<code>job-step-statistics</code>	job-step-statistics	Job Step Statistics
<code>job-started</code>	job-started	Job Started
<code>job-staged</code>	job-staged	Job Staged
<code>job-state-transition</code>	job-state-transition	Job State Transition
<code>job-shutting-down</code>	job-shutting-down	Job Shutting Down
<code>job-stopping</code>	job-stopping	Job Stopping
<code>job-stopped</code>	job-stopped	Job Stopped
<code>job-timed-out</code>	job-timed-out	Job Timed Out
<code>job-suspicious-silence</code>	job-suspicious-silence	Job Suspicious Silence
<code>job-thread-state</code>	job-thread-state	Job Thread State
<code>job-trace</code>	job-trace	Job Trace
<code>job-trace-requires-samples</code>	job-trace-requires-samples	Job Trace Requires Samples
<code>job-updated</code>	job-updated	Job Updated
<code>job-worker-comms-error</code>	job-worker-comms-error	Job Worker Comms Error
<code>job-unstaged</code>	job-unstaged	Job Unstaged
<code>license-state-changed</code>	license-state-changed	License State Changed
<code>license-validation-failed</code>	license-validation-failed	License Validation Failed
<code>license-validation-ok</code>	license-validation-ok	License Validation Ok
<code>license-volume-violation</code>	license-volume-violation	License Volume Violation
<code>new-license</code>	new-license	New License
<code>override-job-coordinated-shutdown</code>	override-job-coordinated-shutdown	Override Job Coordinated Shutdown
<code>override-server-coordinated-shutdown</code>	override-server-coordinated-shutdown	Override Server Coordinated Shutdown
<code>override-worker-coordinated-shutdown</code>	override-worker-coordinated-shutdown	Override Worker Coordinated Shutdown
<code>register-job-thread-dependency</code>	register-job-thread-dependency	Register Job Thread Dependency
<code>register-server-thread-dependency</code>	register-server-thread-dependency	Register Server Thread Dependency
<code>register-worker-thread-dependency</code>	register-worker-thread-dependency	Register Worker Thread Dependency

run-job-failure	run-job-failure	Run Job Failure
server-logs	server-logs	Server Logs
server-metrics-batch	server-metrics-batch	Server Metrics Batch
server-started	server-started	Server Started
server-starting	server-starting	Server Starting
server-stopping	server-stopping	Server Stopping
server-thread-state	server-thread-state	Server Thread State
server-worker-comms-error	server-worker-comms-error	Server Worker Comms Error
shutdown-jobs	shutdown-jobs	Shutdown Jobs
shutdown-worker	shutdown-worker	Shutdown Worker
system-shutdown	system-shutdown	System Shutdown
update-upstream-sync-for-job	update-upstream-sync-for-job	Update Upstream Sync For Job
update-upstream-sync-for-worker	update-upstream-sync-for-worker	Update Upstream Sync For Worker
update-variable	update-variable	Update Variable
user-alert	user-alert	User Alert
user-generated	user-generated	User Generated
user-notification	user-notification	User Notification
worker-command-for-job	worker-command-for-job	Worker Command For Job
worker-auth-lease-ack	worker-auth-lease-ack	Worker Auth Lease Ack
worker-connected	worker-connected	Worker Connected
worker-created	worker-created	Worker Created
worker-debug-heart-beat	worker-debug-heart-beat	Worker Debug Heart Beat
worker-error	worker-error	Worker Error
worker-first-seen	worker-first-seen	Worker First Seen
worker-heart-beat	worker-heart-beat	Worker Heart Beat
worker-logs	worker-logs	Worker Logs
worker-metrics-batch	worker-metrics-batch	Worker Metrics Batch
worker-offline	worker-offline	Worker Offline
worker-requests-auth-lease	worker-requests-auth-lease	Worker Requests Auth Lease
worker-server-comms-error	worker-server-comms-error	Worker Server Comms Error
worker-settings	worker-settings	Worker Settings
worker-shutdown	worker-shutdown	Worker Shutdown

worker-shutting-down	worker-shutting-down	Worker Shutting Down
worker-started	worker-started	Worker Started
worker-state-uuid	worker-state-uuid	Worker State Uuid
worker-stopping	worker-stopping	Worker Stopping
worker-suspicious-silence	worker-suspicious-silence	Worker Suspicious Silence
worker-system-information	worker-system-information	Worker System Information
worker-thread-state	worker-thread-state	Worker Thread State
worker-updated	worker-updated	Worker Updated
worker-modified	worker-modified	Worker Modified
worker-removed	worker-removed	Worker Removed
context-changed	context-changed	Context Changed
rerender-deployment	rerender-deployment	Rerender Deployment
job-killed	job-killed	Job Killed
message-serviced	message-serviced	Message Serviced
failed-to-service-message	failed-to-service-message	Failed To Service Message
worker-wants-initial-settings	worker-wants-initial-settings	Worker Wants Initial Settings
worker-wants-initial-settings-reply	worker-wants-initial-settings-reply	Worker Wants Initial Settings Reply
worker-wants-deployed-jobs	worker-wants-deployed-jobs	Worker Wants Deployed Jobs
worker-wants-deployed-jobs-reply	worker-wants-deployed-jobs-reply	Worker Wants Deployed Jobs Reply
worker-wants-job-configuration	worker-wants-job-configuration	Worker Wants Job Configuration
worker-wants-job-configuration-reply	worker-wants-job-configuration-reply	Worker Wants Job Configuration Reply
job-wants-dslir-key	job-wants-dslir-key	Job Wants Dslir Key
job-wants-dslir-key-reply	job-wants-dslir-key-reply	Job Wants Dslir Key Reply
worker-wants-dslir-key	worker-wants-dslir-key	Worker Wants Dslir Key
worker-wants-dslir-key-reply	worker-wants-dslir-key-reply	Worker Wants Dslir Key Reply
job-wants-variables	job-wants-variables	Job Wants Variables
job-wants-variables-reply	job-wants-variables-reply	Job Wants Variables Reply
job-wants-credentials	job-wants-credentials	Job Wants Credentials
job-wants-credentials-reply	job-wants-credentials-reply	Job Wants Credentials Reply
job-wants-credentials-error	job-wants-credentials-error	Job Wants Credentials Error

<code>job-wants-secret-variables-reply</code>	job-wants-secret-variables-reply	Job Wants Secret Variables Reply
<code>job-credentials-invalidated</code>	job-credentials-invalidated	Job Credentials Invalidated
<code>aggregator-health</code>	aggregator-health	Aggregator Health
<code>worker-aggregator-health</code>	worker-aggregator-health	Worker Aggregator Health
<code>worker-verification-token</code>	worker-verification-token	Worker Verification Token
<code>worker-requests-verification-token</code>	worker-requests-verification-token	Worker Requests Verification Token
<code>runtime-artifact-update</code>	runtime-artifact-update	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	runtime-artifact-update-ack	Runtime Artifact Update Ack
<code>runtime-artifact-clear</code>	runtime-artifact-clear	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch</code>	runtime-artifact-fetch	Runtime Artifact Fetch
<code>runtime-artifact-fetch-reply</code>	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
<code>runtime-artifact-fetch-error</code>	runtime-artifact-fetch-error	Runtime Artifact Fetch Error

MongoDB

Reference for the MongoDB component in LyftData's DSL

Source: `reference/dsl/inputs/mongodb.md`

MongoDB (`mongodb`)

Read MongoDB documents via scheduled `find` or `aggregate` queries.

Database Enterprise edition json

Minimal example

```
input:
mongodb: collection: ~ database: ~ operation: find: {} uri: ""
```

JSON

```
{
  "input": { "mongodb": { "collection": null, "database": null, "operation": { "find": {} },
    "uri": "" } } }
```

Contents

- [Minimal example](#)
- [Connection](#)
- [Processing](#)
- [Query](#)
- [Reliability](#)
- [Trigger](#)
- [Schema](#)

Connection

Connection

Field	Type	Required	Description
<code>uri</code>	<code>url (string)</code>	✓	MongoDB connection URI. Examples: <code>https://example.com/path</code>
<code>database</code>	<code>string</code>	✓	Database name.
<code>collection</code>	<code>string</code>	✓	Collection name.

Processing

Processing

Field	Type	Required	Description
<code>batch</code>	<code>Batch</code>		Optional input batching hints shared with other poll-based inputs.

Query

Query

Field	Type	Required	Description
<code>operation</code>	<code>Operation</code>	<input checked="" type="checkbox"/>	Query operation to execute. Allowed values: <code>find</code> , <code>aggregate</code>

Reliability

Reliability

Field	Type	Required	Description
<code>retry</code>	<code>Retry</code>		Retry policy for transient query failures.

Trigger

Trigger

Field	Type	Required	Description
<code>trigger</code>	<code>Trigger</code>		Run on the provided cadence; if omitted, this input runs once. Allowed values: <code>message</code> , <code>cron</code> , <code>interval</code>

Schema

- [Operation Options](#)
- [Trigger - Cron - Window - Window Start Options](#)
- [Trigger - Interval - Window - Window Start Options](#)
- [Trigger Options](#)
- [Batch Fields](#)
- [Operation - Find Fields](#)
- [Operation - Aggregate Fields](#)
- [Retry Fields](#)
- [Trigger - Message Fields](#)
- [Trigger - Cron - Window - Window Start - Start Time Fields](#)
- [Trigger - Cron - Window Fields](#)
- [Trigger - Cron Fields](#)

- [Trigger - Interval - Window - Window Start - Start Time Fields](#)
- [Trigger - Interval - Window Fields](#)
- [Trigger - Interval Fields](#)
- [Trigger - Message - Filter Kind Options](#)
- [Trigger - Message - Filter Source Options](#)
- [Trigger - Message - Filter Type Options](#)

Operation Options

Option	Name	Type	Description
<code>find</code>	Find	object	Execute a <code>find</code> query.
<code>aggregate</code>	Aggregate	object	Execute an <code>aggregate</code> pipeline.

Trigger - Cron - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	object	
<code>tracked</code>	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	object	
<code>tracked</code>	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger Options

Option	Name	Type	Description
<code>message</code>	Message	object	
<code>cron</code>	Cron	object	
<code>interval</code>	Interval	object	

Batch Fields

Field	Type	Required	Description
<code>uuid-field</code>	field (string)		Field where generated uuid, the unique marker for the group, will be stored. Examples: <code>data_field</code>
<code>invocation-time-field</code>	field (string)		Field where invocation time will be stored. Examples: <code>data_field</code>
<code>completion-time-field</code>	field (string)		Field where completion (end of execution) time will be stored. Examples: <code>data_field</code>

<code>begin-marker-field</code>	<code>field (string)</code>		Field used to mark first event in the group. Examples: <code>data_field</code>
<code>end-marker-field</code>	<code>field (string)</code>		Field used to mark last event in the group. Examples: <code>data_field</code>
<code>line-count-field</code>	<code>field (string)</code>		Field used to store the line count of the batch. Examples: <code>data_field</code>
<code>line-num-field</code>	<code>field (string)</code>		Field used to store the line number of the batch. Examples: <code>data_field</code>

Operation - Find Fields

Field	Type	Required	Description
<code>filter</code>	<code>object</code>		Query filter document (defaults to <code>{}</code>). Hint: <code>JSON object</code>
<code>projection</code>	<code>object</code>		Projection document. Hint: <code>JSON object</code>
<code>sort</code>	<code>object</code>		Sort document. Hint: <code>JSON object</code>
<code>limit</code>	<code>number (integer)</code>		Maximum number of documents to read. Examples: <code>42</code> , <code>1.2e-10</code>
<code>batch-size</code>	<code>number (integer)</code>		Driver cursor batch-size hint. Examples: <code>42</code> , <code>1.2e-10</code>

Operation - Aggregate Fields

Field	Type	Required	Description
<code>pipeline</code>	<code>object[]</code>	<input checked="" type="checkbox"/>	Aggregation pipeline stages. Hint: <code>JSON object</code>
<code>batch-size</code>	<code>number (integer)</code>		Driver cursor batch-size hint. Examples: <code>42</code> , <code>1.2e-10</code>
<code>allow-disk-use</code>	<code>boolean (bool)</code>		Enable aggregation disk spill when supported.
<code>max-time-ms</code>	<code>number (integer)</code>		Optional query max-time in milliseconds. Examples: <code>42</code> , <code>1.2e-10</code>

Retry Fields

Field	Type	Required	Description
<code>timeout</code>	<code>time-interval (string)</code>	<input checked="" type="checkbox"/>	timeout (e.g. 500ms, 2s etc. - default is 30). Examples: <code>500ms</code> , <code>2h</code>
<code>retries</code>	<code>number (integer)</code>		number of retries. Examples: <code>42</code> , <code>1.2e-10</code>

Trigger - Message Fields

Field	Type	Required	Description
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<code>limit</code> ✓	<code>number</code> (<code>integer</code>)		The number of times to run the input. Examples: <code>42</code> , <code>1.2e-10</code>
<code>filter-kind</code>	<code>Filter Kind</code>		Specifies whether the message originated from the "system" or by the "user". Allowed values: <code>system</code> , <code>user</code> , <code>runtime-artifact-fetch</code> , <code>runtime-artifact-fetch-error</code> , <code>runtime-artifact-clear</code> , <code>runtime-artifact-clear-ack</code> , <code>runtime-artifact-fetch-reply</code> , <code>runtime-artifact-update</code> , <code>runtime-artifact-update-ack</code>
<code>filter-source</code>	[<code>Filter Source[]</code>] (#trigger-message-filter-source-options)		Specifies what process generated the message. Was it a "server", "worker" or "job"? Allowed values: <code>job</code> , <code>worker</code> , <code>server</code>
<code>filter-worker</code>	<code>string</code>		Specifies what worker to select.
<code>filter-job</code>	<code>string</code>		Specifies the name of the job that the message came from.
<code>filter-type</code>	[<code>Filter Type[]</code>] (#trigger-message-filter-type-options)		Specifies that particular types of message ought to match. Allowed values: <code>worker-licensed</code> , <code>worker-unlicensed</code> , <code>variable</code> , <code>variable-deleted</code> , <code>begin-shutting-down-job</code> , <code>begin-shutting-down-server</code> , <code>begin-shutting-down-worker</code> , <code>broadcast-job-thread-state</code> , <code>broadcast-server-thread-state</code> , <code>broadcast-worker-thread-state</code> , ...
<code>filter-tag</code>	<code>string</code>		Specifies that messages matched ought to carry a tag with a particular value. This only matches against user-generated messages.

Trigger - Cron - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (<code>string</code>)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (<code>string</code>)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Cron - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (<code>string</code>)	✓	Window size.
<code>offset</code>	<code>duration</code> (<code>string</code>)		Window offset. Default: <code>0s</code>
<code>start</code>	<code>Window Start</code>		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Cron Fields

Field	Type	Required	Description
<code>cron</code>	<code>cron-expression</code> (<code>string</code>)	<input checked="" type="checkbox"/>	The Cron pattern.
<code>immediate</code> ✓	<code>boolean</code> (<code>bool</code>)		Run as soon as invoked, instead of waiting for the specified cron interval. Default: <code>false</code>
<code>random-offset</code>	<code>duration</code> (<code>string</code>)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	Window		Optional window definition when the schedule should only read a bounded range.

Trigger - Interval - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Specify file where timestamp would be stored in order to resume, for when job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Window size.
<code>offset</code>	<code>duration</code> (<code>string</code>)		Window offset. Default: <code>0s</code>
<code>start</code>	Window Start		Specify file where timestamp would be stored in order to resume, for when job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Interval Fields

Field	Type	Required	Description
<code>duration</code>	<code>duration</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Duration to wait between events.
<code>random-offset</code>	<code>duration</code> (<code>string</code>)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	Window		Optional window definition when the interval should only cover a bounded range.

Trigger - Message - Filter Kind Options

Value	Name	Description
system	system	System
user	user	User
runtime-artifact-fetch	runtime-artifact-fetch	Runtime Artifact Fetch
runtime-artifact-fetch-error	runtime-artifact-fetch-error	Runtime Artifact Fetch Error
runtime-artifact-clear	runtime-artifact-clear	Runtime Artifact Clear
runtime-artifact-clear-ack	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
runtime-artifact-fetch-reply	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
runtime-artifact-update	runtime-artifact-update	Runtime Artifact Update
runtime-artifact-update-ack	runtime-artifact-update-ack	Runtime Artifact Update Ack

Trigger - Message - Filter Source Options

Value	Name	Description
job	job	Job
worker	worker	Worker
server	server	Server

Trigger - Message - Filter Type Options

Value	Name	Description
worker-licensed	worker-licensed	Worker Licensed
worker-unlicensed	worker-unlicensed	Worker Unlicensed
variable	variable	Variable
variable-deleted	variable-deleted	Variable Deleted
begin-shutting-down-job	begin-shutting-down-job	Begin Shutting Down Job
begin-shutting-down-server	begin-shutting-down-server	Begin Shutting Down Server
begin-shutting-down-worker	begin-shutting-down-worker	Begin Shutting Down Worker
broadcast-job-thread-state	broadcast-job-thread-state	Broadcast Job Thread State
broadcast-server-thread-state	broadcast-server-thread-state	Broadcast Server Thread State
broadcast-worker-thread-state	broadcast-worker-thread-state	Broadcast Worker Thread State
check-job-report-time	check-job-report-time	Check Job Report Time
check-worker-report-time	check-worker-report-time	Check Worker Report Time
de-register-job-thread-dependency	de-register-job-thread-dependency	De Register Job Thread Dependency

de-register-server-thread-dependency	de-register-server-thread-dependency	De Register Server Thread Dependency
de-register-worker-thread-dependency	de-register-worker-thread-dependency	De Register Worker Thread Dependency
deployed-job-active	deployed-job-active	Deployed Job Active
deployed-job-removed	deployed-job-removed	Deployed Job Removed
deployed-job-should-be-running	deployed-job-should-be-running	Deployed Job Should Be Running
deployment-phase	deployment-phase	Deployment Phase
heart-beat	heart-beat	Heart Beat
initialise-internal-state	initialise-internal-state	Initialise Internal State
initialise-job-states	initialise-job-states	Initialise Job States
job-batch-end	job-batch-end	Job Batch End
job-backlog-update	job-backlog-update	Job Backlog Update
job-checkpoint-update	job-checkpoint-update	Job Checkpoint Update
job-deploy-ready	job-deploy-ready	Job Deploy Ready
job-deployed	job-deployed	Job Deployed
job-document-end	job-document-end	Job Document End
job-document-start	job-document-start	Job Document Start
job-errors	job-errors	Job Errors
job-execution-anomaly	job-execution-anomaly	Job Execution Anomaly
job-execution-status	job-execution-status	Job Execution Status
job-emit-custom	job-emit-custom	Job Emit Custom
job-finished	job-finished	Job Finished
job-idle	job-idle	Job Idle
job-initiated	job-initiated	Job Initiated
job-is-processing	job-is-processing	Job Is Processing
job-logs	job-logs	Job Logs
job-metrics	job-metrics	Job Metrics
job-notifications	job-notifications	Job Notifications
job-removing	job-removing	Job Removing
job-removed	job-removed	Job Removed
job-remove-failed	job-remove-failed	Job Remove Failed

<code>job-remove-ready</code>	<code>job-remove-ready</code>	Job Remove Ready
<code>job-replaced</code>	<code>job-replaced</code>	Job Replaced
<code>job-required</code>	<code>job-required</code>	Job Required
<code>job-run-ended</code>	<code>job-run-ended</code>	Job Run Ended
<code>job-runtime-error</code>	<code>job-runtime-error</code>	Job Runtime Error
<code>job-runtime-settings</code>	<code>job-runtime-settings</code>	Job Runtime Settings
<code>job-run-started</code>	<code>job-run-started</code>	Job Run Started
<code>job-running-docker</code>	<code>job-running-docker</code>	Job Running Docker
<code>job-running-script</code>	<code>job-running-script</code>	Job Running Script
<code>job-running-subprocess</code>	<code>job-running-subprocess</code>	Job Running Subprocess
<code>job-running-system-d</code>	<code>job-running-system-d</code>	Job Running System D
<code>job-settings</code>	<code>job-settings</code>	Job Settings
<code>job-step-statistics</code>	<code>job-step-statistics</code>	Job Step Statistics
<code>job-started</code>	<code>job-started</code>	Job Started
<code>job-staged</code>	<code>job-staged</code>	Job Staged
<code>job-state-transition</code>	<code>job-state-transition</code>	Job State Transition
<code>job-shutting-down</code>	<code>job-shutting-down</code>	Job Shutting Down
<code>job-stopping</code>	<code>job-stopping</code>	Job Stopping
<code>job-stopped</code>	<code>job-stopped</code>	Job Stopped
<code>job-timed-out</code>	<code>job-timed-out</code>	Job Timed Out
<code>job-suspicious-silence</code>	<code>job-suspicious-silence</code>	Job Suspicious Silence
<code>job-thread-state</code>	<code>job-thread-state</code>	Job Thread State
<code>job-trace</code>	<code>job-trace</code>	Job Trace
<code>job-trace-requires-samples</code>	<code>job-trace-requires-samples</code>	Job Trace Requires Samples
<code>job-updated</code>	<code>job-updated</code>	Job Updated
<code>job-worker-comms-error</code>	<code>job-worker-comms-error</code>	Job Worker Comms Error
<code>job-unstaged</code>	<code>job-unstaged</code>	Job Unstaged
<code>license-state-changed</code>	<code>license-state-changed</code>	License State Changed
<code>license-validation-failed</code>	<code>license-validation-failed</code>	License Validation Failed
<code>license-validation-ok</code>	<code>license-validation-ok</code>	License Validation Ok
<code>license-volume-violation</code>	<code>license-volume-violation</code>	License Volume Violation
<code>new-license</code>	<code>new-license</code>	New License

override-job-coordinated-shutdown	override-job-coordinated-shutdown	Override Job Coordinated Shutdown
override-server-coordinated-shutdown	override-server-coordinated-shutdown	Override Server Coordinated Shutdown
override-worker-coordinated-shutdown	override-worker-coordinated-shutdown	Override Worker Coordinated Shutdown
register-job-thread-dependency	register-job-thread-dependency	Register Job Thread Dependency
register-server-thread-dependency	register-server-thread-dependency	Register Server Thread Dependency
register-worker-thread-dependency	register-worker-thread-dependency	Register Worker Thread Dependency
run-job-failure	run-job-failure	Run Job Failure
server-logs	server-logs	Server Logs
server-metrics-batch	server-metrics-batch	Server Metrics Batch
server-started	server-started	Server Started
server-starting	server-starting	Server Starting
server-stopping	server-stopping	Server Stopping
server-thread-state	server-thread-state	Server Thread State
server-worker-comms-error	server-worker-comms-error	Server Worker Comms Error
shutdown-jobs	shutdown-jobs	Shutdown Jobs
shutdown-worker	shutdown-worker	Shutdown Worker
system-shutdown	system-shutdown	System Shutdown
update-upstream-sync-for-job	update-upstream-sync-for-job	Update Upstream Sync For Job
update-upstream-sync-for-worker	update-upstream-sync-for-worker	Update Upstream Sync For Worker
update-variable	update-variable	Update Variable
user-alert	user-alert	User Alert
user-generated	user-generated	User Generated
user-notification	user-notification	User Notification
worker-command-for-job	worker-command-for-job	Worker Command For Job
worker-auth-lease-ack	worker-auth-lease-ack	Worker Auth Lease Ack
worker-connected	worker-connected	Worker Connected
worker-created	worker-created	Worker Created
worker-debug-heart-beat	worker-debug-heart-beat	Worker Debug Heart Beat
worker-error	worker-error	Worker Error
worker-first-seen	worker-first-seen	Worker First Seen

<code>worker-heart-beat</code>	<code>worker-heart-beat</code>	Worker Heart Beat
<code>worker-logs</code>	<code>worker-logs</code>	Worker Logs
<code>worker-metrics-batch</code>	<code>worker-metrics-batch</code>	Worker Metrics Batch
<code>worker-offline</code>	<code>worker-offline</code>	Worker Offline
<code>worker-requests-auth-lease</code>	<code>worker-requests-auth-lease</code>	Worker Requests Auth Lease
<code>worker-server-comms-error</code>	<code>worker-server-comms-error</code>	Worker Server Comms Error
<code>worker-settings</code>	<code>worker-settings</code>	Worker Settings
<code>worker-shutdown</code>	<code>worker-shutdown</code>	Worker Shutdown
<code>worker-shutting-down</code>	<code>worker-shutting-down</code>	Worker Shutting Down
<code>worker-started</code>	<code>worker-started</code>	Worker Started
<code>worker-state-uuid</code>	<code>worker-state-uuid</code>	Worker State Uuid
<code>worker-stopping</code>	<code>worker-stopping</code>	Worker Stopping
<code>worker-suspicious-silence</code>	<code>worker-suspicious-silence</code>	Worker Suspicious Silence
<code>worker-system-information</code>	<code>worker-system-information</code>	Worker System Information
<code>worker-thread-state</code>	<code>worker-thread-state</code>	Worker Thread State
<code>worker-updated</code>	<code>worker-updated</code>	Worker Updated
<code>worker-modified</code>	<code>worker-modified</code>	Worker Modified
<code>worker-removed</code>	<code>worker-removed</code>	Worker Removed
<code>context-changed</code>	<code>context-changed</code>	Context Changed
<code>rerender-deployment</code>	<code>rerender-deployment</code>	Rerender Deployment
<code>job-killed</code>	<code>job-killed</code>	Job Killed
<code>message-serviced</code>	<code>message-serviced</code>	Message Serviced
<code>failed-to-service-message</code>	<code>failed-to-service-message</code>	Failed To Service Message
<code>worker-wants-initial-settings</code>	<code>worker-wants-initial-settings</code>	Worker Wants Initial Settings
<code>worker-wants-initial-settings-reply</code>	<code>worker-wants-initial-settings-reply</code>	Worker Wants Initial Settings Reply
<code>worker-wants-deployed-jobs</code>	<code>worker-wants-deployed-jobs</code>	Worker Wants Deployed Jobs
<code>worker-wants-deployed-jobs-reply</code>	<code>worker-wants-deployed-jobs-reply</code>	Worker Wants Deployed Jobs Reply
<code>worker-wants-job-configuration</code>	<code>worker-wants-job-configuration</code>	Worker Wants Job Configuration
<code>worker-wants-job-configuration-reply</code>	<code>worker-wants-job-configuration-reply</code>	Worker Wants Job Configuration Reply
<code>job-wants-dslir-key</code>	<code>job-wants-dslir-key</code>	Job Wants Dslir Key

job-wants-dslir-key-reply	job-wants-dslir-key-reply	Job Wants Dslir Key Reply
worker-wants-dslir-key	worker-wants-dslir-key	Worker Wants Dslir Key
worker-wants-dslir-key-reply	worker-wants-dslir-key-reply	Worker Wants Dslir Key Reply
job-wants-variables	job-wants-variables	Job Wants Variables
job-wants-variables-reply	job-wants-variables-reply	Job Wants Variables Reply
job-wants-credentials	job-wants-credentials	Job Wants Credentials
job-wants-credentials-reply	job-wants-credentials-reply	Job Wants Credentials Reply
job-wants-credentials-error	job-wants-credentials-error	Job Wants Credentials Error
job-wants-secret-variables-reply	job-wants-secret-variables-reply	Job Wants Secret Variables Reply
job-credentials-invalidated	job-credentials-invalidated	Job Credentials Invalidated
aggregator-health	aggregator-health	Aggregator Health
worker-aggregator-health	worker-aggregator-health	Worker Aggregator Health
worker-verification-token	worker-verification-token	Worker Verification Token
worker-requests-verification-token	worker-requests-verification-token	Worker Requests Verification Token
runtime-artifact-update	runtime-artifact-update	Runtime Artifact Update
runtime-artifact-update-ack	runtime-artifact-update-ack	Runtime Artifact Update Ack
runtime-artifact-clear	runtime-artifact-clear	Runtime Artifact Clear
runtime-artifact-clear-ack	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
runtime-artifact-fetch	runtime-artifact-fetch	Runtime Artifact Fetch
runtime-artifact-fetch-reply	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
runtime-artifact-fetch-error	runtime-artifact-fetch-error	Runtime Artifact Fetch Error

MQTT

Reference for the MQTT component in LyftData's DSL

Source: [reference/dsl/inputs/mqtt.md](#)

MQTT (`mqtt`)

Ingest events from MQTT brokers (client mode) or an embedded broker (broker mode).

Messaging Enterprise edition binary json raw

Minimal example

```
input:
mqtt: broker: {} client: endpoint: ""
```

JSON

```
{
  "input": { "mqtt": { "broker": {}, "client": { "endpoint": "" } } } }
```

Contents

- [Minimal example](#)
- [Fields](#)
- [Schema](#)

Fields

Field	Type	Required	Description
<code>client</code>	MQTT Client Publisher	✓	Connect to an external MQTT broker as a client subscriber.
<code>broker</code>	MQTT Embedded Broker Publisher	✓	Run an embedded broker and surface publishes into the pipeline.

Schema

- [MQTT Client Publisher - Retry Fields](#)
- [MQTT Client Publisher - MQTT TLS Fields](#)
- [MQTT Client Publisher - MQTT Dead Letter Fields](#)
- [MQTT Client Publisher Fields](#)
- [MQTT Embedded Broker Publisher - Retry Fields](#)

- [MQTT Embedded Broker Publisher - Listener Fields](#)
- [MQTT Embedded Broker Publisher Fields](#)
- [MQTT Client Publisher - MQTT Protocol Options](#)
- [MQTT Client Publisher - Payload Mode Options](#)
- [MQTT Embedded Broker Publisher - Payload Mode Options](#)

MQTT Client Publisher - Retry Fields

Field	Type	Required	Description
<code>timeout</code>	<code>time-interval</code> (<code>string</code>)	<input checked="" type="checkbox"/>	timeout (e.g. 500ms, 2s etc. - default is 30). Examples: <code>500ms</code> , <code>2h</code>
<code>retries</code>	<code>number</code> (<code>integer</code>)		number of retries. Examples: <code>42</code> , <code>1.2e-10</code>

MQTT Client Publisher - MQTT TLS Fields

Field	Type	Required	Description
<code>ca-certificate</code>	<code>string</code>		Optional CA certificate (PEM encoded).
<code>client-certificate</code>	<code>string</code>		Optional client certificate (PEM encoded).
<code>client-key</code>	<code>string</code>		Optional client private key (PEM encoded).

MQTT Client Publisher - MQTT Dead Letter Fields

Field	Type	Required	Description
<code>topic</code>	<code>string</code>	<input checked="" type="checkbox"/>	Topic to publish failed messages to once retries are exhausted.
<code>qos</code>	<code>number</code>		QoS level for dead-letter publishes (0 or 1). Default: <code>0</code>
<code>retain</code> ✓	<code>boolean</code> (<code>bool</code>)		Whether the dead-letter publish should retain the message. Default: <code>false</code>

MQTT Client Publisher Fields

Field	Type	Required	Description
<code>retry</code>	<code>Retry</code>		Retry policy for publish failures.
<code>endpoint</code>	<code>hostname</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Broker endpoint URI (e.g. <code>mqtt://broker:1883</code> or <code>mqttps://broker:8883</code>). Examples: <code>example.com</code> , <code>localhost</code>
<code>protocol</code>	<code>MQTT Protocol</code>		MQTT protocol version used for publishing. Allowed values: <code>v3</code> , <code>v5</code>
<code>client-id</code>	<code>string</code>		Optional client identifier override.
<code>keep-alive-secs</code>	<code>number</code> (<code>integer</code>)		Keep-alive interval in seconds. Default: <code>30</code> Examples: <code>42</code> , <code>1.2e-10</code>

<code>clean-session</code> ✓	<code>boolean</code> (<code>bool</code>)	Whether to request a clean session on connect. Default: <code>true</code>
<code>username</code>	<code>string</code>	Optional username for broker authentication.
<code>password</code>	<code>string</code>	Optional password for broker authentication.
<code>tls</code>	MQTT TLS	TLS material for secure connections.
<code>request-channel-capacity</code>	<code>number</code> (<code>integer</code>)	Request channel capacity for the client worker. Default: <code>10</code> Examples: <code>42</code> , <code>1.2e-10</code>
<code>inflight</code>	<code>number</code> (<code>integer</code>)	Maximum inflight window for QoS1 publishes. Default: <code>100</code> Examples: <code>42</code> , <code>1.2e-10</code>
<code>qos</code>	<code>number</code>	Publish QoS level (0 or 1). Default: <code>0</code>
<code>retain</code> ✓	<code>boolean</code> (<code>bool</code>)	Whether publishes should set the retain flag. Default: <code>false</code>
<code>topic</code>	<code>string</code>	Static topic to publish to when dynamic selectors are absent.
<code>topic-field</code>	<code>field</code> (<code>string</code>)	Event field to resolve the topic from at runtime. Examples: <code>data_field</code>
<code>topic-pointer</code>	<code>json-pointer</code> (<code>string</code>)	JSON pointer to resolve the topic from at runtime.
<code>payload-mode</code>	Payload Mode	Controls how event payloads are encoded prior to publish. Default: <code>auto</code> Allowed values: <code>auto</code> , <code>json</code> , <code>raw</code> , <code>binary</code>
<code>pool-size</code>	<code>number</code> (<code>integer</code>)	Number of MQTT client connections maintained for parallel publishing. Default: <code>1</code> Examples: <code>42</code> , <code>1.2e-10</code>
<code>response-topic</code>	<code>string</code>	Optional response topic for MQTT v5 publishes.
<code>correlation-data</code>	<code>string</code>	Optional correlation data (base64 encoded) for MQTT v5 publishes.
<code>message-expiry-interval-secs</code>	<code>number</code> (<code>integer</code>)	Optional message expiry interval (seconds) for MQTT v5 publishes. Examples: <code>42</code> , <code>1.2e-10</code>
<code>dead-letter</code>	MQTT Dead Letter	Dead-letter behaviour when retries are exhausted.

MQTT Embedded Broker Publisher - Retry Fields

Field	Type	Required	Description
<code>timeout</code>	<code>time-interval</code> (<code>string</code>)	✓	timeout (e.g. 500ms, 2s etc. - default is 30). Examples: <code>500ms</code> , <code>2h</code>
<code>retries</code>	<code>number</code> (<code>integer</code>)		number of retries. Examples: <code>42</code> , <code>1.2e-10</code>

MQTT Embedded Broker Publisher - Listener Fields

Field	Type	Required	Description
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<code>bind</code>	<code>hostname</code> (<code>string</code>)	✓	Socket address in host:port form for the embedded broker listener. Examples: <code>example.com</code> , <code>localhost</code>
<code>tls</code> ✓	<code>boolean</code> (<code>bool</code>)		Whether TLS should be enabled for this listener (placeholder). Default: <code>false</code>

MQTT Embedded Broker Publisher Fields

Field	Type	Required	Description
<code>retry</code>	<code>Retry</code>		Retry policy applied before surfacing broker publish failures.
<code>qos</code>	<code>number</code>		Publish QoS level (0 or 1). Default: <code>0</code>
<code>retain</code> ✓	<code>boolean</code> (<code>bool</code>)		Whether embedded broker publishes should set the retain flag. Default: <code>false</code>
<code>topic</code>	<code>string</code>		Static topic used when dynamic selectors are absent.
<code>topic-field</code>	<code>field</code> (<code>string</code>)		Event field to resolve the topic from. Examples: <code>data_field</code>
<code>topic-pointer</code>	<code>json-pointer</code> (<code>string</code>)		JSON pointer to resolve the topic from.
<code>payload-mode</code>	<code>Payload Mode</code>		Controls how payloads are encoded prior to publish. Default: <code>auto</code> Allowed values: <code>auto</code> , <code>json</code> , <code>raw</code> , <code>binary</code>
<code>listeners</code>	[<code>Listener[]</code>](#mqtt-embedded-broker-publisher-listener-fields)		Listener surfaces to bind for the embedded broker.
<code>persistence-path</code>	<code>string</code>		Optional on-disk directory for broker persistence (defaults to job data dir).
<code>topic-prefix</code>	<code>string</code>		Optional prefix applied to topics before publishing into the embedded broker.
<code>worker-threads</code>	<code>number</code> (<code>integer</code>)		Number of worker threads dedicated to the embedded broker runtime. Default: <code>1</code> Examples: <code>42</code> , <code>1.2e-10</code>

MQTT Client Publisher - MQTT Protocol Options

Value	Name	Description
<code>v3</code>	<code>v3</code>	V3
<code>v5</code>	<code>v5</code>	V5

MQTT Client Publisher - Payload Mode Options

Value	Name	Description
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auto	auto	Auto
json	json	Json
raw	raw	Raw
binary	binary	Binary

MQTT Embedded Broker Publisher - Payload Mode Options

Value	Name	Description
auto	auto	Auto
json	json	Json
raw	raw	Raw
binary	binary	Binary

MySQL

Reference for the MySQL component in LyftData's DSL

Source: [reference/dsl/inputs/mysql.md](#)

MySQL (`mysql`)

Query MySQL databases or stream change data capture events.

Database Enterprise edition json

Minimal example

```
input:
mysql: connection: url: url: ""
```

JSON

```
{
  "input": { "mysql": { "connection": { "url": { "url": "" } } } } }
```

Contents

- [Minimal example](#)
- [Connection](#)
- [Mode](#)
- [Output](#)
- [Processing](#)
- [Query](#)
- [Reliability](#)
- [Trigger](#)
- [Schema](#)

Connection

Connection

Field	Type	Required	Description
<code>connection</code>	Connection	✓	Connection details for the target database. Allowed values: <code>url</code> , <code>parts</code>

Mode

Mode

Field	Type	Required	Description
<code>mode</code>	<code>Mode</code>		Operating mode (one-shot queries or CDC polling). Allowed values: <code>query</code> , <code>cdc</code>
<code>cdc</code>	<code>Cdc</code>		CDC configuration (required when <code>mode = cdc</code>).

Output

Output

Field	Type	Required	Description
<code>stream-results</code> ✓	<code>boolean (bool)</code>		Stream rows to downstream consumers as they arrive (experimental). Default: <code>false</code>
<code>auto-row-json</code> ✓	<code>boolean (bool)</code>		Automatically build JSON objects per row using column metadata. Default: <code>false</code>
<code>auto-type-mapping</code> ✓	<code>boolean (bool)</code>		Convert native SQL types to JSON (requires <code>auto-row-json</code>). Default: <code>false</code>
<code>column-overrides</code>	<code>[Column Overrides[]]</code> (#column-overrides-fields)		Per-column coercions when auto-row-json is enabled.

Processing

Processing

Field	Type	Required	Description
<code>batch</code>	<code>Batch</code>		Optional batching semantics shared with other inputs.

Query

Query

Field	Type	Required	Description
<code>query</code>	<code>multiline-text (string)</code>		Inline SQL statement executed when <code>query-file</code> is not provided.
<code>query-file</code>	<code>path (string)</code>		Path to a SQL file executed when <code>query</code> is not provided. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>
<code>parameters</code>	<code>[Parameters[]]</code> (#parameters-fields)		Bindings that map event fields into parameter placeholders.

Reliability

Reliability

Field	Type	Required	Description
<code>retry</code>	<code>Retry</code>		Retry policy for transient failures.

Trigger

Trigger

Field	Type	Required	Description
<code>trigger</code>	<code>Trigger</code>		Optional schedule for polling queries and CDC refresh. Allowed values: <code>message</code> , <code>cron</code> , <code>interval</code>

Schema

- [Connection Options](#)
- [Trigger - Cron - Window - Window Start Options](#)
- [Trigger - Interval - Window - Window Start Options](#)
- [Trigger Options](#)
- [Connection - Url Fields](#)
- [Connection - Parts - Tuning Fields](#)
- [Connection - Parts Fields](#)
- [Cdc Fields](#)
- [Column Overrides Fields](#)
- [Batch Fields](#)
- [Parameters Fields](#)
- [Retry Fields](#)
- [Trigger - Message Fields](#)
- [Trigger - Cron - Window - Window Start - Start Time Fields](#)
- [Trigger - Cron - Window Fields](#)
- [Trigger - Cron Fields](#)
- [Trigger - Interval - Window - Window Start - Start Time Fields](#)
- [Trigger - Interval - Window Fields](#)
- [Trigger - Interval Fields](#)
- [Connection - Parts - Parameters Table](#)
- [Mode Options](#)
- [Column Overrides - As Type Options](#)
- [Trigger - Message - Filter Kind Options](#)
- [Trigger - Message - Filter Source Options](#)
- [Trigger - Message - Filter Type Options](#)

Connection Options

Option	Name	Type	Description
<code>url</code>	<code>Url</code>	<code>object</code>	

<code>parts</code>	Parts	<code>object</code>	
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Trigger - Cron - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	<code>object</code>	
<code>tracked</code>	Tracked	<code>string</code>	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	<code>object</code>	
<code>tracked</code>	Tracked	<code>string</code>	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger Options

Option	Name	Type	Description
<code>message</code>	Message	<code>object</code>	
<code>cron</code>	Cron	<code>object</code>	
<code>interval</code>	Interval	<code>object</code>	

Connection - Url Fields

Field	Type	Required	Description
<code>url</code>	<code>url (string)</code>	<input checked="" type="checkbox"/>	Database connection URL (sqlx/ODBC compatible). Examples: <code>https://example.com/path</code>
<code>max-connections</code>	<code>number (integer)</code>		Maximum size of the async connection pool. Examples: <code>42</code> , <code>1.2e-10</code>
<code>min-connections</code>	<code>number (integer)</code>		Minimum number of connections retained in the pool. Examples: <code>42</code> , <code>1.2e-10</code>
<code>connect-timeout</code>	<code>string</code>		Optional connection timeout (humantime duration string).
<code>idle-timeout</code>	<code>string</code>		Optional idle timeout (humantime duration string).
<code>schema</code>	<code>string</code>		Optional schema override applied after connect.
<code>options</code>	<code>string[]</code>		Statements executed after connect (e.g. SET search_path TO ...).
<code>disable-tls-verification</code> ✓	<code>boolean (bool)</code>		Skip TLS verification (development only). Default: <code>false</code>

Connection - Parts - Tuning Fields

Field	Type	Required	Description
<code>max-connections</code>	<code>number (integer)</code>		Maximum size of the async connection pool. Examples: <code>42</code> , <code>1.2e-10</code>
<code>min-connections</code>	<code>number (integer)</code>		Minimum number of connections retained in the pool. Examples: <code>42</code> , <code>1.2e-10</code>
<code>connect-timeout</code>	<code>string</code>		Optional connection timeout (humantime duration string).
<code>idle-timeout</code>	<code>string</code>		Optional idle timeout (humantime duration string).
<code>schema</code>	<code>string</code>		Optional schema override applied after connect.
<code>options</code>	<code>string[]</code>		Statements executed after connect (e.g. SET search_path TO ...).
<code>disable-tls-verification</code> ✓	<code>boolean (bool)</code>		Skip TLS verification (development only). Default: <code>false</code>

Connection - Parts Fields

Field	Type	Required	Description
<code>tuning</code>	<code>Tuning</code>	✓	
<code>host</code>	<code>string</code>	✓	Hostname or IP address of the database server.
<code>port</code>	<code>number (integer)</code>		Optional TCP port (defaults to the backend default). Examples: <code>42</code> , <code>1.2e-10</code>
<code>database</code>	<code>string</code>		Optional database name (mapped to the URL path segment).
<code>username</code>	<code>string</code>		Optional username (mapped to the URL userinfo).
<code>password</code>	<code>string</code>		Optional password (mapped to the URL userinfo).
<code>parameters</code>	<code>map (string)</code>		Additional query parameters appended to the generated URL.

Cdc Fields

Field	Type	Required	Description
<code>cursor-column</code>	<code>string</code>		Column used to order and resume polling.
<code>resume-token-field</code>	<code>field (string)</code>		JSON field containing the resume token in emitted rows. Examples: <code>data_field</code>
<code>poll-interval</code>	<code>string</code>		Optional polling cadence override (humantime duration).
<code>state-id</code>	<code>string</code>		Explicit runtime-artifact state identifier override.
<code>state-version</code>	<code>number (integer)</code>		Optional state version used to rotate runtime artefacts on schema changes. Examples: <code>42</code> , <code>1.2e-10</code>

Column Overrides Fields

Field	Type	Required	Description
<code>column</code>	<code>string</code>	<input checked="" type="checkbox"/>	
<code>as-type</code>	<code>As Type</code>		Allowed values: <code>string</code> , <code>number</code> , <code>boolean</code> , <code>json</code> , <code>base64</code>

Batch Fields

Field	Type	Required	Description
<code>uuid-field</code>	<code>field</code> (<code>string</code>)		Field where generated uuid, the unique marker for the group, will be stored. Examples: <code>data_field</code>
<code>invocation-time-field</code>	<code>field</code> (<code>string</code>)		Field where invocation time will be stored. Examples: <code>data_field</code>
<code>completion-time-field</code>	<code>field</code> (<code>string</code>)		Field where completion (end of execution) time will be stored. Examples: <code>data_field</code>
<code>begin-marker-field</code>	<code>field</code> (<code>string</code>)		Field used to mark first event in the group. Examples: <code>data_field</code>
<code>end-marker-field</code>	<code>field</code> (<code>string</code>)		Field used to mark last event in the group. Examples: <code>data_field</code>
<code>line-count-field</code>	<code>field</code> (<code>string</code>)		Field used to store the line count of the batch. Examples: <code>data_field</code>
<code>line-num-field</code>	<code>field</code> (<code>string</code>)		Field used to store the line number of the batch. Examples: <code>data_field</code>

Parameters Fields

Field	Type	Required	Description
<code>name</code>	<code>string</code>	<input checked="" type="checkbox"/>	
<code>field</code>	<code>string</code>	<input checked="" type="checkbox"/>	
<code>default</code>	<code>multiline-text</code> (<code>string</code>)		

Retry Fields

Field	Type	Required	Description
<code>timeout</code>	<code>time-interval</code> (<code>string</code>)	<input checked="" type="checkbox"/>	timeout (e.g. 500ms, 2s etc. - default is 30). Examples: <code>500ms</code> , <code>2h</code>
<code>retries</code>	<code>number</code> (<code>integer</code>)		number of retries. Examples: <code>42</code> , <code>1.2e-10</code>

Trigger - Message Fields

Field	Type	Required	Description
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<code>limit</code> ✓	<code>number</code> (<code>integer</code>)		The number of times to run the input. Examples: <code>42</code> , <code>1.2e-10</code>
<code>filter-kind</code>	<code>Filter Kind</code>		Specifies whether the message originated from the "system" or by the "user". Allowed values: <code>system</code> , <code>user</code> , <code>runtime-artifact-fetch</code> , <code>runtime-artifact-fetch-error</code> , <code>runtime-artifact-clear</code> , <code>runtime-artifact-clear-ack</code> , <code>runtime-artifact-fetch-reply</code> , <code>runtime-artifact-update</code> , <code>runtime-artifact-update-ack</code>
<code>filter-source</code>	[<code>Filter Source[]</code>] (#trigger-message-filter-source-options)		Specifies what process generated the message. Was it a "server", "worker" or "job"? Allowed values: <code>job</code> , <code>worker</code> , <code>server</code>
<code>filter-worker</code>	<code>string</code>		Specifies what worker to select.
<code>filter-job</code>	<code>string</code>		Specifies the name of the job that the message came from.
<code>filter-type</code>	[<code>Filter Type[]</code>] (#trigger-message-filter-type-options)		Specifies that particular types of message ought to match. Allowed values: <code>worker-licensed</code> , <code>worker-unlicensed</code> , <code>variable</code> , <code>variable-deleted</code> , <code>begin-shutting-down-job</code> , <code>begin-shutting-down-server</code> , <code>begin-shutting-down-worker</code> , <code>broadcast-job-thread-state</code> , <code>broadcast-server-thread-state</code> , <code>broadcast-worker-thread-state</code> , ...
<code>filter-tag</code>	<code>string</code>		Specifies that messages matched ought to carry a tag with a particular value. This only matches against user-generated messages.

Trigger - Cron - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (<code>string</code>)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (<code>string</code>)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Cron - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (<code>string</code>)	✓	Window size.
<code>offset</code>	<code>duration</code> (<code>string</code>)		Window offset. Default: <code>0s</code>
<code>start</code>	<code>Window Start</code>		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Cron Fields

Field	Type	Required	Description
<code>cron</code>	<code>cron-expression</code> (string)	✓	The Cron pattern.
<code>immediate</code> ✓	<code>boolean</code> (bool)		Run as soon as invoked, instead of waiting for the specified cron interval. Default: <code>false</code>
<code>random-offset</code>	<code>duration</code> (string)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	Window		Optional window definition when the schedule should only read a bounded range.

Trigger - Interval - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (string)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (string)	✓	Specify file where timestamp would be stored in order to resume, for when job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (string)	✓	Window size.
<code>offset</code>	<code>duration</code> (string)		Window offset. Default: <code>0s</code>
<code>start</code>	Window Start		Specify file where timestamp would be stored in order to resume, for when job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Interval Fields

Field	Type	Required	Description
<code>duration</code>	<code>duration</code> (string)	✓	Duration to wait between events.
<code>random-offset</code>	<code>duration</code> (string)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	Window		Optional window definition when the interval should only cover a bounded range.

Connection - Parts - Parameters Table

Parameter	Value
<code>name</code>	<code>value</code>

Value format: `templated-text`.

Mode Options

Value	Name	Description
<code>query</code>	query	Query
<code>cdc</code>	cdc	Cdc

Column Overrides - As Type Options

Value	Name	Description
<code>string</code>	string	String
<code>number</code>	number	Number
<code>boolean</code>	boolean	Boolean
<code>json</code>	json	Json
<code>base64</code>	base64	Base64

Trigger - Message - Filter Kind Options

Value	Name	Description
<code>system</code>	system	System
<code>user</code>	user	User
<code>runtime-artifact-fetch</code>	runtime-artifact-fetch	Runtime Artifact Fetch
<code>runtime-artifact-fetch-error</code>	runtime-artifact-fetch-error	Runtime Artifact Fetch Error
<code>runtime-artifact-clear</code>	runtime-artifact-clear	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch-reply</code>	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
<code>runtime-artifact-update</code>	runtime-artifact-update	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	runtime-artifact-update-ack	Runtime Artifact Update Ack

Trigger - Message - Filter Source Options

Value	Name	Description
<code>job</code>	job	Job

worker	worker	Worker
server	server	Server

Trigger - Message - Filter Type Options

Value	Name	Description
worker-licensed	worker-licensed	Worker Licensed
worker-unlicensed	worker-unlicensed	Worker Unlicensed
variable	variable	Variable
variable-deleted	variable-deleted	Variable Deleted
begin-shutting-down-job	begin-shutting-down-job	Begin Shutting Down Job
begin-shutting-down-server	begin-shutting-down-server	Begin Shutting Down Server
begin-shutting-down-worker	begin-shutting-down-worker	Begin Shutting Down Worker
broadcast-job-thread-state	broadcast-job-thread-state	Broadcast Job Thread State
broadcast-server-thread-state	broadcast-server-thread-state	Broadcast Server Thread State
broadcast-worker-thread-state	broadcast-worker-thread-state	Broadcast Worker Thread State
check-job-report-time	check-job-report-time	Check Job Report Time
check-worker-report-time	check-worker-report-time	Check Worker Report Time
de-register-job-thread-dependency	de-register-job-thread-dependency	De Register Job Thread Dependency
de-register-server-thread-dependency	de-register-server-thread-dependency	De Register Server Thread Dependency
de-register-worker-thread-dependency	de-register-worker-thread-dependency	De Register Worker Thread Dependency
deployed-job-active	deployed-job-active	Deployed Job Active
deployed-job-removed	deployed-job-removed	Deployed Job Removed
deployed-job-should-be-running	deployed-job-should-be-running	Deployed Job Should Be Running
deployment-phase	deployment-phase	Deployment Phase
heart-beat	heart-beat	Heart Beat
initialise-internal-state	initialise-internal-state	Initialise Internal State
initialise-job-states	initialise-job-states	Initialise Job States
job-batch-end	job-batch-end	Job Batch End
job-backlog-update	job-backlog-update	Job Backlog Update
job-checkpoint-update	job-checkpoint-update	Job Checkpoint Update
job-deploy-ready	job-deploy-ready	Job Deploy Ready

job-deployed	job-deployed	Job Deployed
job-document-end	job-document-end	Job Document End
job-document-start	job-document-start	Job Document Start
job-errors	job-errors	Job Errors
job-execution-anomaly	job-execution-anomaly	Job Execution Anomaly
job-execution-status	job-execution-status	Job Execution Status
job-emit-custom	job-emit-custom	Job Emit Custom
job-finished	job-finished	Job Finished
job-idle	job-idle	Job Idle
job-initiated	job-initiated	Job Initiated
job-is-processing	job-is-processing	Job Is Processing
job-logs	job-logs	Job Logs
job-metrics	job-metrics	Job Metrics
job-notifications	job-notifications	Job Notifications
job-removing	job-removing	Job Removing
job-removed	job-removed	Job Removed
job-remove-failed	job-remove-failed	Job Remove Failed
job-remove-ready	job-remove-ready	Job Remove Ready
job-replaced	job-replaced	Job Replaced
job-required	job-required	Job Required
job-run-ended	job-run-ended	Job Run Ended
job-runtime-error	job-runtime-error	Job Runtime Error
job-runtime-settings	job-runtime-settings	Job Runtime Settings
job-run-started	job-run-started	Job Run Started
job-running-docker	job-running-docker	Job Running Docker
job-running-script	job-running-script	Job Running Script
job-running-subprocess	job-running-subprocess	Job Running Subprocess
job-running-system-d	job-running-system-d	Job Running System D
job-settings	job-settings	Job Settings
job-step-statistics	job-step-statistics	Job Step Statistics
job-started	job-started	Job Started
job-staged	job-staged	Job Staged

job-state-transition	job-state-transition	Job State Transition
job-shutting-down	job-shutting-down	Job Shutting Down
job-stopping	job-stopping	Job Stopping
job-stopped	job-stopped	Job Stopped
job-timed-out	job-timed-out	Job Timed Out
job-suspicious-silence	job-suspicious-silence	Job Suspicious Silence
job-thread-state	job-thread-state	Job Thread State
job-trace	job-trace	Job Trace
job-trace-requires-samples	job-trace-requires-samples	Job Trace Requires Samples
job-updated	job-updated	Job Updated
job-worker-comms-error	job-worker-comms-error	Job Worker Comms Error
job-unstaged	job-unstaged	Job Unstaged
license-state-changed	license-state-changed	License State Changed
license-validation-failed	license-validation-failed	License Validation Failed
license-validation-ok	license-validation-ok	License Validation Ok
license-volume-violation	license-volume-violation	License Volume Violation
new-license	new-license	New License
override-job-coordinated-shutdown	override-job-coordinated-shutdown	Override Job Coordinated Shutdown
override-server-coordinated-shutdown	override-server-coordinated-shutdown	Override Server Coordinated Shutdown
override-worker-coordinated-shutdown	override-worker-coordinated-shutdown	Override Worker Coordinated Shutdown
register-job-thread-dependency	register-job-thread-dependency	Register Job Thread Dependency
register-server-thread-dependency	register-server-thread-dependency	Register Server Thread Dependency
register-worker-thread-dependency	register-worker-thread-dependency	Register Worker Thread Dependency
run-job-failure	run-job-failure	Run Job Failure
server-logs	server-logs	Server Logs
server-metrics-batch	server-metrics-batch	Server Metrics Batch
server-started	server-started	Server Started
server-starting	server-starting	Server Starting
server-stopping	server-stopping	Server Stopping
server-thread-state	server-thread-state	Server Thread State

server-worker-comms-error	server-worker-comms-error	Server Worker Comms Error
shutdown-jobs	shutdown-jobs	Shutdown Jobs
shutdown-worker	shutdown-worker	Shutdown Worker
system-shutdown	system-shutdown	System Shutdown
update-upstream-sync-for-job	update-upstream-sync-for-job	Update Upstream Sync For Job
update-upstream-sync-for-worker	update-upstream-sync-for-worker	Update Upstream Sync For Worker
update-variable	update-variable	Update Variable
user-alert	user-alert	User Alert
user-generated	user-generated	User Generated
user-notification	user-notification	User Notification
worker-command-for-job	worker-command-for-job	Worker Command For Job
worker-auth-lease-ack	worker-auth-lease-ack	Worker Auth Lease Ack
worker-connected	worker-connected	Worker Connected
worker-created	worker-created	Worker Created
worker-debug-heart-beat	worker-debug-heart-beat	Worker Debug Heart Beat
worker-error	worker-error	Worker Error
worker-first-seen	worker-first-seen	Worker First Seen
worker-heart-beat	worker-heart-beat	Worker Heart Beat
worker-logs	worker-logs	Worker Logs
worker-metrics-batch	worker-metrics-batch	Worker Metrics Batch
worker-offline	worker-offline	Worker Offline
worker-requests-auth-lease	worker-requests-auth-lease	Worker Requests Auth Lease
worker-server-comms-error	worker-server-comms-error	Worker Server Comms Error
worker-settings	worker-settings	Worker Settings
worker-shutdown	worker-shutdown	Worker Shutdown
worker-shutting-down	worker-shutting-down	Worker Shutting Down
worker-started	worker-started	Worker Started
worker-state-uuid	worker-state-uuid	Worker State Uuid
worker-stopping	worker-stopping	Worker Stopping
worker-suspicious-silence	worker-suspicious-silence	Worker Suspicious Silence
worker-system-information	worker-system-information	Worker System Information
worker-thread-state	worker-thread-state	Worker Thread State

worker-updated	worker-updated	Worker Updated
worker-modified	worker-modified	Worker Modified
worker-removed	worker-removed	Worker Removed
context-changed	context-changed	Context Changed
rerender-deployment	rerender-deployment	Rerender Deployment
job-killed	job-killed	Job Killed
message-serviced	message-serviced	Message Serviced
failed-to-service-message	failed-to-service-message	Failed To Service Message
worker-wants-initial-settings	worker-wants-initial-settings	Worker Wants Initial Settings
worker-wants-initial-settings-reply	worker-wants-initial-settings-reply	Worker Wants Initial Settings Reply
worker-wants-deployed-jobs	worker-wants-deployed-jobs	Worker Wants Deployed Jobs
worker-wants-deployed-jobs-reply	worker-wants-deployed-jobs-reply	Worker Wants Deployed Jobs Reply
worker-wants-job-configuration	worker-wants-job-configuration	Worker Wants Job Configuration
worker-wants-job-configuration-reply	worker-wants-job-configuration-reply	Worker Wants Job Configuration Reply
job-wants-dslir-key	job-wants-dslir-key	Job Wants Dslir Key
job-wants-dslir-key-reply	job-wants-dslir-key-reply	Job Wants Dslir Key Reply
worker-wants-dslir-key	worker-wants-dslir-key	Worker Wants Dslir Key
worker-wants-dslir-key-reply	worker-wants-dslir-key-reply	Worker Wants Dslir Key Reply
job-wants-variables	job-wants-variables	Job Wants Variables
job-wants-variables-reply	job-wants-variables-reply	Job Wants Variables Reply
job-wants-credentials	job-wants-credentials	Job Wants Credentials
job-wants-credentials-reply	job-wants-credentials-reply	Job Wants Credentials Reply
job-wants-credentials-error	job-wants-credentials-error	Job Wants Credentials Error
job-wants-secret-variables-reply	job-wants-secret-variables-reply	Job Wants Secret Variables Reply
job-credentials-invalidated	job-credentials-invalidated	Job Credentials Invalidated
aggregator-health	aggregator-health	Aggregator Health
worker-aggregator-health	worker-aggregator-health	Worker Aggregator Health
worker-verification-token	worker-verification-token	Worker Verification Token
worker-requests-verification-token	worker-requests-verification-token	Worker Requests Verification Token
runtime-artifact-update	runtime-artifact-update	Runtime Artifact Update

<code>runtime-artifact-update-ack</code>	runtime-artifact-update-ack	Runtime Artifact Update Ack
<code>runtime-artifact-clear</code>	runtime-artifact-clear	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch</code>	runtime-artifact-fetch	Runtime Artifact Fetch
<code>runtime-artifact-fetch-reply</code>	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
<code>runtime-artifact-fetch-error</code>	runtime-artifact-fetch-error	Runtime Artifact Fetch Error

OpenTelemetry

Reference for the OpenTelemetry component in LyftData's DSL

Source: [reference/dsl/inputs/open-telemetry.md](#)

OpenTelemetry (`open-telemetry`)

Accept OpenTelemetry OTLP signals over gRPC.

Observability Enterprise edition json

Minimal example

```
input:
  open-telemetry: listen: address: ""
```

JSON

```
{
  "input": { "open-telemetry": { "listen": { "address": "" } } } }
```

Contents

- [Minimal example](#)
- [Attributes](#)
- [Batching](#)
- [Connection](#)
- [Reliability](#)
- [Security](#)
- [Signals](#)
- [Trigger](#)
- [Schema](#)

Attributes

Attributes

Field	Type	Required	Description
<code>resource-overrides</code> ✓	<code>map (string)</code>		Static resource attributes to merge into each inbound record.
<code>default-attributes</code> ✓	<code>map (string)</code>		Default attributes applied to emitted events.

Batching

Batching

Field	Type	Required	Description
<code>batch</code>	<code>Batch</code>		Optional batching semantics shared with other inputs.

Connection

Connection

Field	Type	Required	Description
<code>listen</code>	<code>Listen</code>	<input checked="" type="checkbox"/>	gRPC listener configuration.

Reliability

Reliability

Field	Type	Required	Description
<code>retry</code>	<code>Retry</code>		Retry configuration applied to downstream emission.

Security

Security

Field	Type	Required	Description
<code>auth</code>	<code>OTel Server Auth</code>		Authentication configuration for inbound requests.

Signals

Signals

Field	Type	Required	Description
<code>signals</code>	<code>[Signals[]](#signals-options)</code>		OpenTelemetry signals to process (default: logs, traces). Allowed values: <code>logs</code> , <code>traces</code> , <code>metrics</code>

Trigger

Trigger

Field	Type	Required	Description
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trigger	Trigger	Optional trigger for scheduled ingestion. Allowed values: message , cron , interval
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Schema

- [Trigger - Cron - Window - Window Start Options](#)
- [Trigger - Interval - Window - Window Start Options](#)
- [Trigger Options](#)
- [Batch Fields](#)
- [Listen - Tls Fields](#)
- [Listen Fields](#)
- [Retry Fields](#)
- [OTel Server Auth - OTel Basic Auth Fields](#)
- [OTel Server Auth Fields](#)
- [Trigger - Message Fields](#)
- [Trigger - Cron - Window - Window Start - Start Time Fields](#)
- [Trigger - Cron - Window Fields](#)
- [Trigger - Cron Fields](#)
- [Trigger - Interval - Window - Window Start - Start Time Fields](#)
- [Trigger - Interval - Window Fields](#)
- [Trigger - Interval Fields](#)
- [Resource Overrides Table](#)
- [Default Attributes Table](#)
- [OTel Server Auth - Required Headers Table](#)
- [Signals Options](#)
- [Trigger - Message - Filter Kind Options](#)
- [Trigger - Message - Filter Source Options](#)
- [Trigger - Message - Filter Type Options](#)

Trigger - Cron - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	object	
<code>tracked</code>	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	object	
<code>tracked</code>	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger Options

Option	Name	Type	Description
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<code>message</code>	Message	<code>object</code>	
<code>cron</code>	Cron	<code>object</code>	
<code>interval</code>	Interval	<code>object</code>	

Batch Fields

Field	Type	Required	Description
<code>uuid-field</code>	<code>field</code> (<code>string</code>)		Field where generated uuid, the unique marker for the group, will be stored. Examples: <code>data_field</code>
<code>invocation-time-field</code>	<code>field</code> (<code>string</code>)		Field where invocation time will be stored. Examples: <code>data_field</code>
<code>completion-time-field</code>	<code>field</code> (<code>string</code>)		Field where completion (end of execution) time will be stored. Examples: <code>data_field</code>
<code>begin-marker-field</code>	<code>field</code> (<code>string</code>)		Field used to mark first event in the group. Examples: <code>data_field</code>
<code>end-marker-field</code>	<code>field</code> (<code>string</code>)		Field used to mark last event in the group. Examples: <code>data_field</code>
<code>line-count-field</code>	<code>field</code> (<code>string</code>)		Field used to store the line count of the batch. Examples: <code>data_field</code>
<code>line-num-field</code>	<code>field</code> (<code>string</code>)		Field used to store the line number of the batch. Examples: <code>data_field</code>

Listen - Tls Fields

Field	Type	Required	Description
<code>certificate</code> ✓	<code>path</code> (<code>string</code>)	✓	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>
<code>private-key</code> ✓	<code>path</code> (<code>string</code>)	✓	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>
<code>client-ca</code> ✓	<code>path</code> (<code>string</code>)		Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>
<code>require-client-auth</code> ✓	<code>boolean</code> (<code>bool</code>)		Default: <code>false</code>

Listen Fields

Field	Type	Required	Description
<code>address</code>	<code>hostname</code> (<code>string</code>)	✓	Examples: <code>example.com</code> , <code>localhost</code>
<code>concurrency</code>	<code>number</code> (<code>integer</code>)		Maximum concurrent requests handled by the server. Examples: <code>42</code> , <code>1.2e-10</code>

<code>max-message-size</code>	<code>number (integer)</code>		Maximum message size in bytes accepted by the server. Examples: <code>42</code> , <code>1.2e-10</code>
<code>tls</code>	<code>Tls</code>		

Retry Fields

Field	Type	Required	Description
<code>timeout</code>	<code>time-interval (string)</code>	✓	timeout (e.g. 500ms, 2s etc. - default is 30). Examples: <code>500ms</code> , <code>2h</code>
<code>retries</code>	<code>number (integer)</code>		number of retries. Examples: <code>42</code> , <code>1.2e-10</code>

OTel Server Auth - OTel Basic Auth Fields

Field	Type	Required	Description
<code>username</code> ✓	<code>string</code>	✓	
<code>password</code> ✓	<code>string</code>	✓	

OTel Server Auth Fields

Field	Type	Required	Description
<code>bearer-tokens</code> ✓	<code>string[]</code>		Allowed bearer tokens matched against <code>Authorization</code> headers.
<code>basic</code>	<code>[OTel Basic Auth[]](#otel-server-auth-otel-basic-auth-fields)</code>		Allowed basic auth credentials.
<code>required-headers</code> ✓	<code>map (string)</code>		Static headers that must be present on requests.

Trigger - Message Fields

Field	Type	Required	Description
<code>limit</code> ✓	<code>number (integer)</code>		The number of times to run the input. Examples: <code>42</code> , <code>1.2e-10</code>
<code>filter-kind</code>	<code>Filter Kind</code>		Specifies whether the message originated from the "system" or by the "user". Allowed values: <code>system</code> , <code>user</code> , <code>runtime-artifact-fetch</code> , <code>runtime-artifact-fetch-error</code> , <code>runtime-artifact-clear</code> , <code>runtime-artifact-clear-ack</code> , <code>runtime-artifact-fetch-reply</code> , <code>runtime-artifact-update</code> , <code>runtime-artifact-update-ack</code>
<code>filter-source</code>	<code>[Filter Source[]] (#trigger-message-filter-source-options)</code>		Specifies what process generated the message. Was it a "server", "worker" or "job"? Allowed values: <code>job</code> , <code>worker</code> , <code>server</code>

<code>filter-worker</code>	<code>string</code>		Specifies what worker to select.
<code>filter-job</code>	<code>string</code>		Specifies the name of the job that the message came from.
<code>filter-type</code>	<code>[Filter Type[]]</code> (#trigger-message-filter-type-options)		Specifies that particular types of message ought to match. Allowed values: <code>worker-licensed</code> , <code>worker-unlicensed</code> , <code>variable</code> , <code>variable-deleted</code> , <code>begin-shutting-down-job</code> , <code>begin-shutting-down-server</code> , <code>begin-shutting-down-worker</code> , <code>broadcast-job-thread-state</code> , <code>broadcast-server-thread-state</code> , <code>broadcast-worker-thread-state</code> , ...
<code>filter-tag</code>	<code>string</code>		Specifies that messages matched ought to carry a tag with a particular value. This only matches against user-generated messages.

Trigger - Cron - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Cron - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Window size.
<code>offset</code>	<code>duration</code> (<code>string</code>)		Window offset. Default: <code>0s</code>
<code>start</code>	<code>Window Start</code>		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Cron Fields

Field	Type	Required	Description
<code>cron</code>	<code>cron-expression</code> (<code>string</code>)	<input checked="" type="checkbox"/>	The Cron pattern.
<code>immediate</code> ✓	<code>boolean</code> (<code>bool</code>)		Run as soon as invoked, instead of waiting for the specified cron interval. Default: <code>false</code>
<code>random-offset</code>	<code>duration</code> (<code>string</code>)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>

<code>window</code>	<code>Window</code>		Optional window definition when the schedule should only read a bounded range.
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Trigger - Interval - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (string)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (string)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (string)	✓	Window size.
<code>offset</code>	<code>duration</code> (string)		Window offset. Default: <code>0s</code>
<code>start</code>	<code>Window Start</code>		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Interval Fields

Field	Type	Required	Description
<code>duration</code>	<code>duration</code> (string)	✓	Duration to wait between events.
<code>random-offset</code>	<code>duration</code> (string)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	<code>Window</code>		Optional window definition when the interval should only cover a bounded range.

Resource Overrides Table

Attribute	Value
<code>service.name</code>	<code>value</code>

Value format: `templated-text` .

Default Attributes Table

Attribute	Value
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<code>service.name</code>	<code>value</code>
---------------------------	--------------------

Value format: `templated-text`.

OTel Server Auth - Required Headers Table

Header	Value
<code>Header-Name</code>	<code>value</code>

Value format: `templated-text`.

Signals Options

Value	Name	Description
<code>logs</code>	logs	Logs
<code>traces</code>	traces	Traces
<code>metrics</code>	metrics	Metrics

Trigger - Message - Filter Kind Options

Value	Name	Description
<code>system</code>	system	System
<code>user</code>	user	User
<code>runtime-artifact-fetch</code>	runtime-artifact-fetch	Runtime Artifact Fetch
<code>runtime-artifact-fetch-error</code>	runtime-artifact-fetch-error	Runtime Artifact Fetch Error
<code>runtime-artifact-clear</code>	runtime-artifact-clear	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch-reply</code>	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
<code>runtime-artifact-update</code>	runtime-artifact-update	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	runtime-artifact-update-ack	Runtime Artifact Update Ack

Trigger - Message - Filter Source Options

Value	Name	Description
<code>job</code>	job	Job
<code>worker</code>	worker	Worker
<code>server</code>	server	Server

Trigger - Message - Filter Type Options

Value	Name	Description
worker-licensed	worker-licensed	Worker Licensed
worker-unlicensed	worker-unlicensed	Worker Unlicensed
variable	variable	Variable
variable-deleted	variable-deleted	Variable Deleted
begin-shutting-down-job	begin-shutting-down-job	Begin Shutting Down Job
begin-shutting-down-server	begin-shutting-down-server	Begin Shutting Down Server
begin-shutting-down-worker	begin-shutting-down-worker	Begin Shutting Down Worker
broadcast-job-thread-state	broadcast-job-thread-state	Broadcast Job Thread State
broadcast-server-thread-state	broadcast-server-thread-state	Broadcast Server Thread State
broadcast-worker-thread-state	broadcast-worker-thread-state	Broadcast Worker Thread State
check-job-report-time	check-job-report-time	Check Job Report Time
check-worker-report-time	check-worker-report-time	Check Worker Report Time
de-register-job-thread-dependency	de-register-job-thread-dependency	De Register Job Thread Dependency
de-register-server-thread-dependency	de-register-server-thread-dependency	De Register Server Thread Dependency
de-register-worker-thread-dependency	de-register-worker-thread-dependency	De Register Worker Thread Dependency
deployed-job-active	deployed-job-active	Deployed Job Active
deployed-job-removed	deployed-job-removed	Deployed Job Removed
deployed-job-should-be-running	deployed-job-should-be-running	Deployed Job Should Be Running
deployment-phase	deployment-phase	Deployment Phase
heart-beat	heart-beat	Heart Beat
initialise-internal-state	initialise-internal-state	Initialise Internal State
initialise-job-states	initialise-job-states	Initialise Job States
job-batch-end	job-batch-end	Job Batch End
job-backlog-update	job-backlog-update	Job Backlog Update
job-checkpoint-update	job-checkpoint-update	Job Checkpoint Update
job-deploy-ready	job-deploy-ready	Job Deploy Ready
job-deployed	job-deployed	Job Deployed
job-document-end	job-document-end	Job Document End
job-document-start	job-document-start	Job Document Start

<code>job-errors</code>	<code>job-errors</code>	Job Errors
<code>job-execution-anomaly</code>	<code>job-execution-anomaly</code>	Job Execution Anomaly
<code>job-execution-status</code>	<code>job-execution-status</code>	Job Execution Status
<code>job-emit-custom</code>	<code>job-emit-custom</code>	Job Emit Custom
<code>job-finished</code>	<code>job-finished</code>	Job Finished
<code>job-idle</code>	<code>job-idle</code>	Job Idle
<code>job-initiated</code>	<code>job-initiated</code>	Job Initiated
<code>job-is-processing</code>	<code>job-is-processing</code>	Job Is Processing
<code>job-logs</code>	<code>job-logs</code>	Job Logs
<code>job-metrics</code>	<code>job-metrics</code>	Job Metrics
<code>job-notifications</code>	<code>job-notifications</code>	Job Notifications
<code>job-removing</code>	<code>job-removing</code>	Job Removing
<code>job-removed</code>	<code>job-removed</code>	Job Removed
<code>job-remove-failed</code>	<code>job-remove-failed</code>	Job Remove Failed
<code>job-remove-ready</code>	<code>job-remove-ready</code>	Job Remove Ready
<code>job-replaced</code>	<code>job-replaced</code>	Job Replaced
<code>job-required</code>	<code>job-required</code>	Job Required
<code>job-run-ended</code>	<code>job-run-ended</code>	Job Run Ended
<code>job-runtime-error</code>	<code>job-runtime-error</code>	Job Runtime Error
<code>job-runtime-settings</code>	<code>job-runtime-settings</code>	Job Runtime Settings
<code>job-run-started</code>	<code>job-run-started</code>	Job Run Started
<code>job-running-docker</code>	<code>job-running-docker</code>	Job Running Docker
<code>job-running-script</code>	<code>job-running-script</code>	Job Running Script
<code>job-running-subprocess</code>	<code>job-running-subprocess</code>	Job Running Subprocess
<code>job-running-system-d</code>	<code>job-running-system-d</code>	Job Running System D
<code>job-settings</code>	<code>job-settings</code>	Job Settings
<code>job-step-statistics</code>	<code>job-step-statistics</code>	Job Step Statistics
<code>job-started</code>	<code>job-started</code>	Job Started
<code>job-staged</code>	<code>job-staged</code>	Job Staged
<code>job-state-transition</code>	<code>job-state-transition</code>	Job State Transition
<code>job-shutting-down</code>	<code>job-shutting-down</code>	Job Shutting Down
<code>job-stopping</code>	<code>job-stopping</code>	Job Stopping

job-stopped	job-stopped	Job Stopped
job-timed-out	job-timed-out	Job Timed Out
job-suspicious-silence	job-suspicious-silence	Job Suspicious Silence
job-thread-state	job-thread-state	Job Thread State
job-trace	job-trace	Job Trace
job-trace-requires-samples	job-trace-requires-samples	Job Trace Requires Samples
job-updated	job-updated	Job Updated
job-worker-comms-error	job-worker-comms-error	Job Worker Comms Error
job-unstaged	job-unstaged	Job Unstaged
license-state-changed	license-state-changed	License State Changed
license-validation-failed	license-validation-failed	License Validation Failed
license-validation-ok	license-validation-ok	License Validation Ok
license-volume-violation	license-volume-violation	License Volume Violation
new-license	new-license	New License
override-job-coordinated-shutdown	override-job-coordinated-shutdown	Override Job Coordinated Shutdown
override-server-coordinated-shutdown	override-server-coordinated-shutdown	Override Server Coordinated Shutdown
override-worker-coordinated-shutdown	override-worker-coordinated-shutdown	Override Worker Coordinated Shutdown
register-job-thread-dependency	register-job-thread-dependency	Register Job Thread Dependency
register-server-thread-dependency	register-server-thread-dependency	Register Server Thread Dependency
register-worker-thread-dependency	register-worker-thread-dependency	Register Worker Thread Dependency
run-job-failure	run-job-failure	Run Job Failure
server-logs	server-logs	Server Logs
server-metrics-batch	server-metrics-batch	Server Metrics Batch
server-started	server-started	Server Started
server-starting	server-starting	Server Starting
server-stopping	server-stopping	Server Stopping
server-thread-state	server-thread-state	Server Thread State
server-worker-comms-error	server-worker-comms-error	Server Worker Comms Error
shutdown-jobs	shutdown-jobs	Shutdown Jobs
shutdown-worker	shutdown-worker	Shutdown Worker

system-shutdown	system-shutdown	System Shutdown
update-upstream-sync-for-job	update-upstream-sync-for-job	Update Upstream Sync For Job
update-upstream-sync-for-worker	update-upstream-sync-for-worker	Update Upstream Sync For Worker
update-variable	update-variable	Update Variable
user-alert	user-alert	User Alert
user-generated	user-generated	User Generated
user-notification	user-notification	User Notification
worker-command-for-job	worker-command-for-job	Worker Command For Job
worker-auth-lease-ack	worker-auth-lease-ack	Worker Auth Lease Ack
worker-connected	worker-connected	Worker Connected
worker-created	worker-created	Worker Created
worker-debug-heart-beat	worker-debug-heart-beat	Worker Debug Heart Beat
worker-error	worker-error	Worker Error
worker-first-seen	worker-first-seen	Worker First Seen
worker-heart-beat	worker-heart-beat	Worker Heart Beat
worker-logs	worker-logs	Worker Logs
worker-metrics-batch	worker-metrics-batch	Worker Metrics Batch
worker-offline	worker-offline	Worker Offline
worker-requests-auth-lease	worker-requests-auth-lease	Worker Requests Auth Lease
worker-server-comms-error	worker-server-comms-error	Worker Server Comms Error
worker-settings	worker-settings	Worker Settings
worker-shutdown	worker-shutdown	Worker Shutdown
worker-shutting-down	worker-shutting-down	Worker Shutting Down
worker-started	worker-started	Worker Started
worker-state-uuid	worker-state-uuid	Worker State Uuid
worker-stopping	worker-stopping	Worker Stopping
worker-suspicious-silence	worker-suspicious-silence	Worker Suspicious Silence
worker-system-information	worker-system-information	Worker System Information
worker-thread-state	worker-thread-state	Worker Thread State
worker-updated	worker-updated	Worker Updated
worker-modified	worker-modified	Worker Modified
worker-removed	worker-removed	Worker Removed

context-changed	context-changed	Context Changed
rerender-deployment	rerender-deployment	Rerender Deployment
job-killed	job-killed	Job Killed
message-serviced	message-serviced	Message Serviced
failed-to-service-message	failed-to-service-message	Failed To Service Message
worker-wants-initial-settings	worker-wants-initial-settings	Worker Wants Initial Settings
worker-wants-initial-settings-reply	worker-wants-initial-settings-reply	Worker Wants Initial Settings Reply
worker-wants-deployed-jobs	worker-wants-deployed-jobs	Worker Wants Deployed Jobs
worker-wants-deployed-jobs-reply	worker-wants-deployed-jobs-reply	Worker Wants Deployed Jobs Reply
worker-wants-job-configuration	worker-wants-job-configuration	Worker Wants Job Configuration
worker-wants-job-configuration-reply	worker-wants-job-configuration-reply	Worker Wants Job Configuration Reply
job-wants-dslir-key	job-wants-dslir-key	Job Wants Dslir Key
job-wants-dslir-key-reply	job-wants-dslir-key-reply	Job Wants Dslir Key Reply
worker-wants-dslir-key	worker-wants-dslir-key	Worker Wants Dslir Key
worker-wants-dslir-key-reply	worker-wants-dslir-key-reply	Worker Wants Dslir Key Reply
job-wants-variables	job-wants-variables	Job Wants Variables
job-wants-variables-reply	job-wants-variables-reply	Job Wants Variables Reply
job-wants-credentials	job-wants-credentials	Job Wants Credentials
job-wants-credentials-reply	job-wants-credentials-reply	Job Wants Credentials Reply
job-wants-credentials-error	job-wants-credentials-error	Job Wants Credentials Error
job-wants-secret-variables-reply	job-wants-secret-variables-reply	Job Wants Secret Variables Reply
job-credentials-invalidated	job-credentials-invalidated	Job Credentials Invalidated
aggregator-health	aggregator-health	Aggregator Health
worker-aggregator-health	worker-aggregator-health	Worker Aggregator Health
worker-verification-token	worker-verification-token	Worker Verification Token
worker-requests-verification-token	worker-requests-verification-token	Worker Requests Verification Token
runtime-artifact-update	runtime-artifact-update	Runtime Artifact Update
runtime-artifact-update-ack	runtime-artifact-update-ack	Runtime Artifact Update Ack
runtime-artifact-clear	runtime-artifact-clear	Runtime Artifact Clear
runtime-artifact-clear-ack	runtime-artifact-clear-ack	Runtime Artifact Clear Ack

<code>runtime-artifact-fetch</code>	runtime-artifact-fetch	Runtime Artifact Fetch
<code>runtime-artifact-fetch-reply</code>	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
<code>runtime-artifact-fetch-error</code>	runtime-artifact-fetch-error	Runtime Artifact Fetch Error

PostgreSQL

Reference for the PostgreSQL component in LyftData's DSL

Source: `reference/dsl/inputs/postgres.md`

PostgreSQL (`postgres`)

Query PostgreSQL databases or stream change data capture events.

Database Enterprise edition json

Minimal example

```
input:
postgres: connection: url: url: ""
```

JSON

```
{
  "input": { "postgres": { "connection": { "url": { "url": "" } } } } }
```

Contents

- [Minimal example](#)
- [Connection](#)
- [Mode](#)
- [Output](#)
- [Processing](#)
- [Query](#)
- [Reliability](#)
- [Trigger](#)
- [Schema](#)

Connection

Connection

Field	Type	Required	Description
<code>connection</code>	<code>Connection</code>	✓	Connection details for the target database. Allowed values: <code>url</code> , <code>parts</code>

Mode

Mode

Field	Type	Required	Description
<code>mode</code>	<code>Mode</code>		Operating mode (one-shot queries or CDC polling). Allowed values: <code>query</code> , <code>cdc</code>
<code>cdc</code>	<code>Cdc</code>		CDC configuration (required when <code>mode = cdc</code>).

Output

Output

Field	Type	Required	Description
<code>stream-results</code> ✓	<code>boolean (bool)</code>		Stream rows to downstream consumers as they arrive (experimental). Default: <code>false</code>
<code>auto-row-json</code> ✓	<code>boolean (bool)</code>		Automatically build JSON objects per row using column metadata. Default: <code>false</code>
<code>column-overrides</code>	<code>[Column Overrides[]]</code> (#column-overrides-fields)		Per-column coercions when auto-row-json is enabled.

Processing

Processing

Field	Type	Required	Description
<code>batch</code>	<code>Batch</code>		Optional batching semantics shared with other inputs.

Query

Query

Field	Type	Required	Description
<code>query</code>	<code>multiline-text (string)</code>		Inline SQL statement executed when <code>query-file</code> is not provided.
<code>query-file</code>	<code>path (string)</code>		Path to a SQL file executed when <code>query</code> is not provided. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>
<code>parameters</code>	<code>[Parameters[]]</code> (#parameters-fields)		Bindings that map event fields into parameter placeholders.

Reliability

Reliability

Field	Type	Required	Description
<code>retry</code>	<code>Retry</code>		Retry policy for transient failures.

Trigger

Trigger

Field	Type	Required	Description
<code>trigger</code>	<code>Trigger</code>		Optional schedule for polling queries and CDC refresh. Allowed values: <code>message</code> , <code>cron</code> , <code>interval</code>

Schema

- [Connection Options](#)
- [Trigger - Cron - Window - Window Start Options](#)
- [Trigger - Interval - Window - Window Start Options](#)
- [Trigger Options](#)
- [Connection - Url Fields](#)
- [Connection - Parts - Tuning Fields](#)
- [Connection - Parts Fields](#)
- [Cdc Fields](#)
- [Column Overrides Fields](#)
- [Batch Fields](#)
- [Parameters Fields](#)
- [Retry Fields](#)
- [Trigger - Message Fields](#)
- [Trigger - Cron - Window - Window Start - Start Time Fields](#)
- [Trigger - Cron - Window Fields](#)
- [Trigger - Cron Fields](#)
- [Trigger - Interval - Window - Window Start - Start Time Fields](#)
- [Trigger - Interval - Window Fields](#)
- [Trigger - Interval Fields](#)
- [Connection - Parts - Parameters Table](#)
- [Mode Options](#)
- [Column Overrides - As Type Options](#)
- [Trigger - Message - Filter Kind Options](#)
- [Trigger - Message - Filter Source Options](#)
- [Trigger - Message - Filter Type Options](#)

Connection Options

Option	Name	Type	Description
<code>url</code>	Url	<code>object</code>	
<code>parts</code>	Parts	<code>object</code>	

Trigger - Cron - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	object	
<code>tracked</code>	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	object	
<code>tracked</code>	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger Options

Option	Name	Type	Description
<code>message</code>	Message	object	
<code>cron</code>	Cron	object	
<code>interval</code>	Interval	object	

Connection - Url Fields

Field	Type	Required	Description
<code>url</code>	<code>url (string)</code>	<input checked="" type="checkbox"/>	Database connection URL (sqlx/ODBC compatible). Examples: <code>https://example.com/path</code>
<code>max-connections</code>	<code>number (integer)</code>		Maximum size of the async connection pool. Examples: <code>42</code> , <code>1.2e-10</code>
<code>min-connections</code>	<code>number (integer)</code>		Minimum number of connections retained in the pool. Examples: <code>42</code> , <code>1.2e-10</code>
<code>connect-timeout</code>	<code>string</code>		Optional connection timeout (humantime duration string).
<code>idle-timeout</code>	<code>string</code>		Optional idle timeout (humantime duration string).
<code>schema</code>	<code>string</code>		Optional schema override applied after connect.
<code>options</code>	<code>string[]</code>		Statements executed after connect (e.g. SET search_path TO ...).
<code>disable-tls-verification</code> ✓	<code>boolean (bool)</code>		Skip TLS verification (development only). Default: <code>false</code>

Connection - Parts - Tuning Fields

Field	Type	Required	Description
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<code>max-connections</code>	<code>number</code> (<code>integer</code>)		Maximum size of the async connection pool. Examples: <code>42</code> , <code>1.2e-10</code>
<code>min-connections</code>	<code>number</code> (<code>integer</code>)		Minimum number of connections retained in the pool. Examples: <code>42</code> , <code>1.2e-10</code>
<code>connect-timeout</code>	<code>string</code>		Optional connection timeout (humantime duration string).
<code>idle-timeout</code>	<code>string</code>		Optional idle timeout (humantime duration string).
<code>schema</code>	<code>string</code>		Optional schema override applied after connect.
<code>options</code>	<code>string[]</code>		Statements executed after connect (e.g. SET search_path TO ...).
<code>disable-tls-verification</code> ✓	<code>boolean</code> (<code>bool</code>)		Skip TLS verification (development only). Default: <code>false</code>

Connection - Parts Fields

Field	Type	Required	Description
<code>tuning</code>	<code>Tuning</code>	✓	
<code>host</code>	<code>string</code>	✓	Hostname or IP address of the database server.
<code>port</code>	<code>number</code> (<code>integer</code>)		Optional TCP port (defaults to the backend default). Examples: <code>42</code> , <code>1.2e-10</code>
<code>database</code>	<code>string</code>		Optional database name (mapped to the URL path segment).
<code>username</code>	<code>string</code>		Optional username (mapped to the URL userinfo).
<code>password</code>	<code>string</code>		Optional password (mapped to the URL userinfo).
<code>parameters</code>	<code>map</code> (<code>string</code>)		Additional query parameters appended to the generated URL.

Cdc Fields

Field	Type	Required	Description
<code>slot</code>	<code>string</code>		Logical replication slot (Postgres) or equivalent backend handle.
<code>publication</code>	<code>string</code>		Publication name for Postgres logical replication.
<code>cursor-column</code>	<code>string</code>		Column used to order and resume polling.
<code>resume-token-field</code>	<code>field</code> (<code>string</code>)		JSON field containing the resume token in emitted rows. Examples: <code>data_field</code>
<code>poll-interval</code>	<code>string</code>		Optional polling cadence override (humantime duration).
<code>state-id</code>	<code>string</code>		Explicit runtime-artifact state identifier override.
<code>state-version</code>	<code>number</code> (<code>integer</code>)		Optional state version used to rotate runtime artefacts on schema changes. Examples: <code>42</code> , <code>1.2e-10</code>

Column Overrides Fields

Field	Type	Required	Description
<code>column</code>	<code>string</code>	<input checked="" type="checkbox"/>	
<code>as-type</code>	<code>As Type</code>		Allowed values: <code>string</code> , <code>number</code> , <code>boolean</code> , <code>json</code> , <code>base64</code>

Batch Fields

Field	Type	Required	Description
<code>uuid-field</code>	<code>field</code> (<code>string</code>)		Field where generated uuid, the unique marker for the group, will be stored. Examples: <code>data_field</code>
<code>invocation-time-field</code>	<code>field</code> (<code>string</code>)		Field where invocation time will be stored. Examples: <code>data_field</code>
<code>completion-time-field</code>	<code>field</code> (<code>string</code>)		Field where completion (end of execution) time will be stored. Examples: <code>data_field</code>
<code>begin-marker-field</code>	<code>field</code> (<code>string</code>)		Field used to mark first event in the group. Examples: <code>data_field</code>
<code>end-marker-field</code>	<code>field</code> (<code>string</code>)		Field used to mark last event in the group. Examples: <code>data_field</code>
<code>line-count-field</code>	<code>field</code> (<code>string</code>)		Field used to store the line count of the batch. Examples: <code>data_field</code>
<code>line-num-field</code>	<code>field</code> (<code>string</code>)		Field used to store the line number of the batch. Examples: <code>data_field</code>

Parameters Fields

Field	Type	Required	Description
<code>name</code>	<code>string</code>	<input checked="" type="checkbox"/>	
<code>field</code>	<code>string</code>	<input checked="" type="checkbox"/>	
<code>default</code>	<code>multiline-text</code> (<code>string</code>)		

Retry Fields

Field	Type	Required	Description
<code>timeout</code>	<code>time-interval</code> (<code>string</code>)	<input checked="" type="checkbox"/>	timeout (e.g. 500ms, 2s etc. - default is 30). Examples: <code>500ms</code> , <code>2h</code>
<code>retries</code>	<code>number</code> (<code>integer</code>)		number of retries. Examples: <code>42</code> , <code>1.2e-10</code>

Trigger - Message Fields

Field	Type	Required	Description
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<code>limit</code> ✓	<code>number</code> (<code>integer</code>)		The number of times to run the input. Examples: <code>42</code> , <code>1.2e-10</code>
<code>filter-kind</code>	<code>Filter Kind</code>		Specifies whether the message originated from the "system" or by the "user". Allowed values: <code>system</code> , <code>user</code> , <code>runtime-artifact-fetch</code> , <code>runtime-artifact-fetch-error</code> , <code>runtime-artifact-clear</code> , <code>runtime-artifact-clear-ack</code> , <code>runtime-artifact-fetch-reply</code> , <code>runtime-artifact-update</code> , <code>runtime-artifact-update-ack</code>
<code>filter-source</code>	[<code>Filter Source[]</code>] (#trigger-message-filter-source-options)		Specifies what process generated the message. Was it a "server", "worker" or "job"? Allowed values: <code>job</code> , <code>worker</code> , <code>server</code>
<code>filter-worker</code>	<code>string</code>		Specifies what worker to select.
<code>filter-job</code>	<code>string</code>		Specifies the name of the job that the message came from.
<code>filter-type</code>	[<code>Filter Type[]</code>] (#trigger-message-filter-type-options)		Specifies that particular types of message ought to match. Allowed values: <code>worker-licensed</code> , <code>worker-unlicensed</code> , <code>variable</code> , <code>variable-deleted</code> , <code>begin-shutting-down-job</code> , <code>begin-shutting-down-server</code> , <code>begin-shutting-down-worker</code> , <code>broadcast-job-thread-state</code> , <code>broadcast-server-thread-state</code> , <code>broadcast-worker-thread-state</code> , ...
<code>filter-tag</code>	<code>string</code>		Specifies that messages matched ought to carry a tag with a particular value. This only matches against user-generated messages.

Trigger - Cron - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (<code>string</code>)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (<code>string</code>)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Cron - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (<code>string</code>)	✓	Window size.
<code>offset</code>	<code>duration</code> (<code>string</code>)		Window offset. Default: <code>0s</code>
<code>start</code>	<code>Window Start</code>		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Cron Fields

Field	Type	Required	Description
<code>cron</code>	<code>cron-expression</code> (string)	✓	The Cron pattern.
<code>immediate</code> ✓	<code>boolean</code> (bool)		Run as soon as invoked, instead of waiting for the specified cron interval. Default: <code>false</code>
<code>random-offset</code>	<code>duration</code> (string)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	Window		Optional window definition when the schedule should only read a bounded range.

Trigger - Interval - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (string)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (string)	✓	Specify file where timestamp would be stored in order to resume, for when job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (string)	✓	Window size.
<code>offset</code>	<code>duration</code> (string)		Window offset. Default: <code>0s</code>
<code>start</code>	Window Start		Specify file where timestamp would be stored in order to resume, for when job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Interval Fields

Field	Type	Required	Description
<code>duration</code>	<code>duration</code> (string)	✓	Duration to wait between events.
<code>random-offset</code>	<code>duration</code> (string)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	Window		Optional window definition when the interval should only cover a bounded range.

Connection - Parts - Parameters Table

Parameter	Value
<code>name</code>	<code>value</code>

Value format: `templated-text`.

Mode Options

Value	Name	Description
<code>query</code>	query	Query
<code>cdc</code>	cdc	Cdc

Column Overrides - As Type Options

Value	Name	Description
<code>string</code>	string	String
<code>number</code>	number	Number
<code>boolean</code>	boolean	Boolean
<code>json</code>	json	Json
<code>base64</code>	base64	Base64

Trigger - Message - Filter Kind Options

Value	Name	Description
<code>system</code>	system	System
<code>user</code>	user	User
<code>runtime-artifact-fetch</code>	runtime-artifact-fetch	Runtime Artifact Fetch
<code>runtime-artifact-fetch-error</code>	runtime-artifact-fetch-error	Runtime Artifact Fetch Error
<code>runtime-artifact-clear</code>	runtime-artifact-clear	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch-reply</code>	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
<code>runtime-artifact-update</code>	runtime-artifact-update	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	runtime-artifact-update-ack	Runtime Artifact Update Ack

Trigger - Message - Filter Source Options

Value	Name	Description
<code>job</code>	job	Job

worker	worker	Worker
server	server	Server

Trigger - Message - Filter Type Options

Value	Name	Description
worker-licensed	worker-licensed	Worker Licensed
worker-unlicensed	worker-unlicensed	Worker Unlicensed
variable	variable	Variable
variable-deleted	variable-deleted	Variable Deleted
begin-shutting-down-job	begin-shutting-down-job	Begin Shutting Down Job
begin-shutting-down-server	begin-shutting-down-server	Begin Shutting Down Server
begin-shutting-down-worker	begin-shutting-down-worker	Begin Shutting Down Worker
broadcast-job-thread-state	broadcast-job-thread-state	Broadcast Job Thread State
broadcast-server-thread-state	broadcast-server-thread-state	Broadcast Server Thread State
broadcast-worker-thread-state	broadcast-worker-thread-state	Broadcast Worker Thread State
check-job-report-time	check-job-report-time	Check Job Report Time
check-worker-report-time	check-worker-report-time	Check Worker Report Time
de-register-job-thread-dependency	de-register-job-thread-dependency	De Register Job Thread Dependency
de-register-server-thread-dependency	de-register-server-thread-dependency	De Register Server Thread Dependency
de-register-worker-thread-dependency	de-register-worker-thread-dependency	De Register Worker Thread Dependency
deployed-job-active	deployed-job-active	Deployed Job Active
deployed-job-removed	deployed-job-removed	Deployed Job Removed
deployed-job-should-be-running	deployed-job-should-be-running	Deployed Job Should Be Running
deployment-phase	deployment-phase	Deployment Phase
heart-beat	heart-beat	Heart Beat
initialise-internal-state	initialise-internal-state	Initialise Internal State
initialise-job-states	initialise-job-states	Initialise Job States
job-batch-end	job-batch-end	Job Batch End
job-backlog-update	job-backlog-update	Job Backlog Update
job-checkpoint-update	job-checkpoint-update	Job Checkpoint Update
job-deploy-ready	job-deploy-ready	Job Deploy Ready

job-deployed	job-deployed	Job Deployed
job-document-end	job-document-end	Job Document End
job-document-start	job-document-start	Job Document Start
job-errors	job-errors	Job Errors
job-execution-anomaly	job-execution-anomaly	Job Execution Anomaly
job-execution-status	job-execution-status	Job Execution Status
job-emit-custom	job-emit-custom	Job Emit Custom
job-finished	job-finished	Job Finished
job-idle	job-idle	Job Idle
job-initiated	job-initiated	Job Initiated
job-is-processing	job-is-processing	Job Is Processing
job-logs	job-logs	Job Logs
job-metrics	job-metrics	Job Metrics
job-notifications	job-notifications	Job Notifications
job-removing	job-removing	Job Removing
job-removed	job-removed	Job Removed
job-remove-failed	job-remove-failed	Job Remove Failed
job-remove-ready	job-remove-ready	Job Remove Ready
job-replaced	job-replaced	Job Replaced
job-required	job-required	Job Required
job-run-ended	job-run-ended	Job Run Ended
job-runtime-error	job-runtime-error	Job Runtime Error
job-runtime-settings	job-runtime-settings	Job Runtime Settings
job-run-started	job-run-started	Job Run Started
job-running-docker	job-running-docker	Job Running Docker
job-running-script	job-running-script	Job Running Script
job-running-subprocess	job-running-subprocess	Job Running Subprocess
job-running-system-d	job-running-system-d	Job Running System D
job-settings	job-settings	Job Settings
job-step-statistics	job-step-statistics	Job Step Statistics
job-started	job-started	Job Started
job-staged	job-staged	Job Staged

job-state-transition	job-state-transition	Job State Transition
job-shutting-down	job-shutting-down	Job Shutting Down
job-stopping	job-stopping	Job Stopping
job-stopped	job-stopped	Job Stopped
job-timed-out	job-timed-out	Job Timed Out
job-suspicious-silence	job-suspicious-silence	Job Suspicious Silence
job-thread-state	job-thread-state	Job Thread State
job-trace	job-trace	Job Trace
job-trace-requires-samples	job-trace-requires-samples	Job Trace Requires Samples
job-updated	job-updated	Job Updated
job-worker-comms-error	job-worker-comms-error	Job Worker Comms Error
job-unstaged	job-unstaged	Job Unstaged
license-state-changed	license-state-changed	License State Changed
license-validation-failed	license-validation-failed	License Validation Failed
license-validation-ok	license-validation-ok	License Validation Ok
license-volume-violation	license-volume-violation	License Volume Violation
new-license	new-license	New License
override-job-coordinated-shutdown	override-job-coordinated-shutdown	Override Job Coordinated Shutdown
override-server-coordinated-shutdown	override-server-coordinated-shutdown	Override Server Coordinated Shutdown
override-worker-coordinated-shutdown	override-worker-coordinated-shutdown	Override Worker Coordinated Shutdown
register-job-thread-dependency	register-job-thread-dependency	Register Job Thread Dependency
register-server-thread-dependency	register-server-thread-dependency	Register Server Thread Dependency
register-worker-thread-dependency	register-worker-thread-dependency	Register Worker Thread Dependency
run-job-failure	run-job-failure	Run Job Failure
server-logs	server-logs	Server Logs
server-metrics-batch	server-metrics-batch	Server Metrics Batch
server-started	server-started	Server Started
server-starting	server-starting	Server Starting
server-stopping	server-stopping	Server Stopping
server-thread-state	server-thread-state	Server Thread State

server-worker-comms-error	server-worker-comms-error	Server Worker Comms Error
shutdown-jobs	shutdown-jobs	Shutdown Jobs
shutdown-worker	shutdown-worker	Shutdown Worker
system-shutdown	system-shutdown	System Shutdown
update-upstream-sync-for-job	update-upstream-sync-for-job	Update Upstream Sync For Job
update-upstream-sync-for-worker	update-upstream-sync-for-worker	Update Upstream Sync For Worker
update-variable	update-variable	Update Variable
user-alert	user-alert	User Alert
user-generated	user-generated	User Generated
user-notification	user-notification	User Notification
worker-command-for-job	worker-command-for-job	Worker Command For Job
worker-auth-lease-ack	worker-auth-lease-ack	Worker Auth Lease Ack
worker-connected	worker-connected	Worker Connected
worker-created	worker-created	Worker Created
worker-debug-heart-beat	worker-debug-heart-beat	Worker Debug Heart Beat
worker-error	worker-error	Worker Error
worker-first-seen	worker-first-seen	Worker First Seen
worker-heart-beat	worker-heart-beat	Worker Heart Beat
worker-logs	worker-logs	Worker Logs
worker-metrics-batch	worker-metrics-batch	Worker Metrics Batch
worker-offline	worker-offline	Worker Offline
worker-requests-auth-lease	worker-requests-auth-lease	Worker Requests Auth Lease
worker-server-comms-error	worker-server-comms-error	Worker Server Comms Error
worker-settings	worker-settings	Worker Settings
worker-shutdown	worker-shutdown	Worker Shutdown
worker-shutting-down	worker-shutting-down	Worker Shutting Down
worker-started	worker-started	Worker Started
worker-state-uuid	worker-state-uuid	Worker State Uuid
worker-stopping	worker-stopping	Worker Stopping
worker-suspicious-silence	worker-suspicious-silence	Worker Suspicious Silence
worker-system-information	worker-system-information	Worker System Information
worker-thread-state	worker-thread-state	Worker Thread State

worker-updated	worker-updated	Worker Updated
worker-modified	worker-modified	Worker Modified
worker-removed	worker-removed	Worker Removed
context-changed	context-changed	Context Changed
rerender-deployment	rerender-deployment	Rerender Deployment
job-killed	job-killed	Job Killed
message-serviced	message-serviced	Message Serviced
failed-to-service-message	failed-to-service-message	Failed To Service Message
worker-wants-initial-settings	worker-wants-initial-settings	Worker Wants Initial Settings
worker-wants-initial-settings-reply	worker-wants-initial-settings-reply	Worker Wants Initial Settings Reply
worker-wants-deployed-jobs	worker-wants-deployed-jobs	Worker Wants Deployed Jobs
worker-wants-deployed-jobs-reply	worker-wants-deployed-jobs-reply	Worker Wants Deployed Jobs Reply
worker-wants-job-configuration	worker-wants-job-configuration	Worker Wants Job Configuration
worker-wants-job-configuration-reply	worker-wants-job-configuration-reply	Worker Wants Job Configuration Reply
job-wants-dslir-key	job-wants-dslir-key	Job Wants Dslir Key
job-wants-dslir-key-reply	job-wants-dslir-key-reply	Job Wants Dslir Key Reply
worker-wants-dslir-key	worker-wants-dslir-key	Worker Wants Dslir Key
worker-wants-dslir-key-reply	worker-wants-dslir-key-reply	Worker Wants Dslir Key Reply
job-wants-variables	job-wants-variables	Job Wants Variables
job-wants-variables-reply	job-wants-variables-reply	Job Wants Variables Reply
job-wants-credentials	job-wants-credentials	Job Wants Credentials
job-wants-credentials-reply	job-wants-credentials-reply	Job Wants Credentials Reply
job-wants-credentials-error	job-wants-credentials-error	Job Wants Credentials Error
job-wants-secret-variables-reply	job-wants-secret-variables-reply	Job Wants Secret Variables Reply
job-credentials-invalidated	job-credentials-invalidated	Job Credentials Invalidated
aggregator-health	aggregator-health	Aggregator Health
worker-aggregator-health	worker-aggregator-health	Worker Aggregator Health
worker-verification-token	worker-verification-token	Worker Verification Token
worker-requests-verification-token	worker-requests-verification-token	Worker Requests Verification Token
runtime-artifact-update	runtime-artifact-update	Runtime Artifact Update

<code>runtime-artifact-update-ack</code>	runtime-artifact-update-ack	Runtime Artifact Update Ack
<code>runtime-artifact-clear</code>	runtime-artifact-clear	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch</code>	runtime-artifact-fetch	Runtime Artifact Fetch
<code>runtime-artifact-fetch-reply</code>	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
<code>runtime-artifact-fetch-error</code>	runtime-artifact-fetch-error	Runtime Artifact Fetch Error

S3

Reference for the S3 component in LyftData's DSL

Source: [reference/dsl/inputs/s3.md](#)

S3 (s3)

Stream data from an S3 object.

Block Store Cloud Enterprise edition binary json raw

Minimal example

```
input:
s3: bucket-name: ~ object-names: []
```

JSON

```
{
  "input": { "s3": { "bucket-name": null, "object-names": [] } } }
```

Contents

- [Minimal example](#)
- [Authentication](#)
- [Behavior](#)
- [Filtering](#)
- [Location](#)
- [Object Properties](#)
- [Processing](#)
- [Reliability](#)
- [Trigger](#)
- [Schema](#)

Authentication

Authentication

Field	Type	Required	Description
<code>access-key</code>	<code>string</code>		Access Key ID.
<code>secret-key</code>	<code>string</code>		Secret Key ID.

<code>security-token</code>	<code>string</code>		Security Token.
<code>session-token</code>	<code>string</code>		Session Token.
<code>role-arn</code>	<code>string</code>		A Role ARN for assuming role using above credentials.

Behavior

Behavior

Field	Type	Required	Description
<code>mode</code>	<code>Block Input Mode</code>		Input behavior: use <code>list-and-download</code> , <code>list</code> , or <code>download</code> depending on whether you want to enumerate objects, fetch contents, or download specific names directly. Allowed values: <code>list-and-download-objects</code> , <code>list-objects</code> , <code>download-objects</code>
<code>ignore-linebreaks</code> ✓	<code>boolean</code> (<code>bool</code>)		Treat the entire object as a single event. When <code>false</code> , objects are split on newlines unless <code>json=true</code> instructs the runtime to parse JSON arrays. Default: <code>false</code>
<code>payload-mode</code> ✓	<code>Payload Mode</code>		Select how payloads should be interpreted (<code>auto</code> , <code>json</code> , <code>raw</code> , <code>binary</code>). Allowed values: <code>auto</code> , <code>json</code> , <code>raw</code> , <code>binary</code>
<code>timestamp-mode</code>	<code>Timestamp Strategy</code>		Derive a timestamp for this object for filtering purposes based on the selected strategy (e.g., object creation time vs. last modification). Allowed values: <code>none</code> , <code>last-modified</code> , <code>object-name-pattern</code>

Filtering

Filtering

Field	Type	Required	Description
<code>maximum-age</code>	<code>Maximum Age</code>		Ignore objects older than the provided duration (e.g., <code>5m</code> , <code>1h30m</code>). Leave empty to process all visible objects.
<code>include-regex</code>	<code>regex[]</code> (<code>string</code>)		Include objects matching the specified regular expressions. Examples: <code>\d+[A-Z]*</code>
<code>exclude-regex</code>	<code>regex[]</code> (<code>string</code>)		Exclude objects matching the specified regular expressions. Examples: <code>\d+[A-Z]*</code>

Location

Location

Field	Type	Required	Description
<code>bucket-name</code>	<code>string</code>	✓	Bucket name.

<code>object-names</code>	<code>string[]</code>	✓	Object names or prefixes to target. When using list modes these are treated as search prefixes. An empty list could result in all objects being downloaded — take care with large buckets. Prompt (if empty): An empty list could result in all objects being downloaded.
<code>region</code>	<code>string</code>		S3 Region.
<code>endpoint</code>	<code>string</code>		S3 Endpoint.

Object Properties

Object Properties

Field	Type	Required	Description
<code>object-name-field</code>	<code>field (string)</code>		The field that the object name from an operation should be stored in. Examples: <code>data_field</code>
<code>creation-time-field</code>	<code>field (string)</code>		The field that the object creation time should be stored in. Examples: <code>data_field</code>
<code>last-modified-field</code>	<code>field (string)</code>		The field that the object last modified time should be stored in. Examples: <code>data_field</code>
<code>content-length-field</code>	<code>field (string)</code>		The field that the object content length information should be stored in. Examples: <code>data_field</code>
<code>content-type-field</code>	<code>field (string)</code>		The field that the object content type information should be stored in. Examples: <code>data_field</code>
<code>etag-field</code>	<code>field (string)</code>		The field that the object ETag should be stored in. Examples: <code>data_field</code>
<code>data-field</code>	<code>field (string)</code>		A field that the object data should be nested in. Examples: <code>data_field</code>

Processing

Processing

Field	Type	Required	Description
<code>preprocessors</code>	<code>[Input Preprocessor[]]</code> (#input-preprocessor-options)		Preprocessors (process downloaded data before making it available to the job) these processors will be run in the order they are specified. Allowed values: <code>extension</code> , <code>gzip</code> , <code>parquet</code> , <code>base64</code>

Reliability

Reliability

Field	Type	Required	Description
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<code>fingerprinting</code> ✓	<code>boolean</code> (<code>bool</code>)		Enable object fingerprinting to download each object only once, even across restarts. Default: <code>false</code>
<code>maximum-fingerprint-age</code>	<code>duration</code> (<code>string</code>)		How long to retain stored fingerprints before they are eligible for cleanup. Default: <code>30 days</code>
<code>retry</code>	<code>Retry</code>		How to retry failed operations (backoff, max attempts, etc.).

Trigger

Trigger

Field	Type	Required	Description
<code>trigger</code>	<code>Trigger</code>		Run on the provided cadence; if omitted, this input runs exactly once. Allowed values: <code>message</code> , <code>cron</code> , <code>interval</code>

Schema

- [Timestamp Strategy Options](#)
- [Trigger - Cron - Window - Window Start Options](#)
- [Trigger - Interval - Window - Window Start Options](#)
- [Trigger Options](#)
- [Maximum Age Fields](#)
- [Retry Fields](#)
- [Trigger - Message Fields](#)
- [Trigger - Cron - Window - Window Start - Start Time Fields](#)
- [Trigger - Cron - Window Fields](#)
- [Trigger - Cron Fields](#)
- [Trigger - Interval - Window - Window Start - Start Time Fields](#)
- [Trigger - Interval - Window Fields](#)
- [Trigger - Interval Fields](#)
- [Block Input Mode Options](#)
- [Payload Mode Options](#)
- [Input Preprocessor Options](#)
- [Trigger - Message - Filter Kind Options](#)
- [Trigger - Message - Filter Source Options](#)
- [Trigger - Message - Filter Type Options](#)

Timestamp Strategy Options

Option	Name	Type	Description
<code>none</code>	None	<code>map</code>	The default mode, do not filter based on timestamps.
<code>last-modified</code>	Last Modified	<code>map</code>	Filter object on the last-modified timestamp reported by the service.
<code>object-name-pattern</code>	Object Name Pattern	<code>string</code>	Filter blobs on the timestamp derived from the object name for example: <code>relevant-name-pattern: =(?P[\d]{4,4})-(?P<m>[\d]{2,2})-</code>

```
(?P<d>[\\d]{2,2})/ .
```

Trigger - Cron - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	object	
<code>tracked</code>	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	object	
<code>tracked</code>	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger Options

Option	Name	Type	Description
<code>message</code>	Message	object	
<code>cron</code>	Cron	object	
<code>interval</code>	Interval	object	

Maximum Age Fields

Field	Type	Required	Description
<code>value</code>	<code>duration (string)</code>	<input checked="" type="checkbox"/>	

Retry Fields

Field	Type	Required	Description
<code>timeout</code>	<code>time-interval (string)</code>	<input checked="" type="checkbox"/>	timeout (e.g. 500ms, 2s etc. - default is 30). Examples: <code>500ms</code> , <code>2h</code>
<code>retries</code>	<code>number (integer)</code>		number of retries. Examples: <code>42</code> , <code>1.2e-10</code>

Trigger - Message Fields

Field	Type	Required	Description
<code>limit</code> ✓	<code>number (integer)</code>		The number of times to run the input. Examples: <code>42</code> , <code>1.2e-10</code>
<code>filter-kind</code>	<code>Filter Kind</code>		Specifies whether the message originated from the "system" or by the "user". Allowed values: <code>system</code> , <code>user</code> , <code>runtime-artifact-fetch</code> , <code>runtime-artifact-fetch-error</code> , <code>runtime-artifact-clear</code> ,

			<code>runtime-artifact-clear-ack</code> , <code>runtime-artifact-fetch-reply</code> , <code>runtime-artifact-update</code> , <code>runtime-artifact-update-ack</code>
<code>filter-source</code>	[<code>Filter Source[]</code>] (#trigger-message-filter-source-options)		Specifies what process generated the message. Was it a "server", "worker" or "job"? Allowed values: <code>job</code> , <code>worker</code> , <code>server</code>
<code>filter-worker</code>	<code>string</code>		Specifies what worker to select.
<code>filter-job</code>	<code>string</code>		Specifies the name of the job that the message came from.
<code>filter-type</code>	[<code>Filter Type[]</code>] (#trigger-message-filter-type-options)		Specifies that particular types of message ought to match. Allowed values: <code>worker-licensed</code> , <code>worker-unlicensed</code> , <code>variable</code> , <code>variable-deleted</code> , <code>begin-shutting-down-job</code> , <code>begin-shutting-down-server</code> , <code>begin-shutting-down-worker</code> , <code>broadcast-job-thread-state</code> , <code>broadcast-server-thread-state</code> , <code>broadcast-worker-thread-state</code> , ...
<code>filter-tag</code>	<code>string</code>		Specifies that messages matched ought to carry a tag with a particular value. This only matches against user-generated messages.

Trigger - Cron - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (<code>string</code>)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (<code>string</code>)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Cron - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (<code>string</code>)	✓	Window size.
<code>offset</code>	<code>duration</code> (<code>string</code>)		Window offset. Default: <code>0s</code>
<code>start</code>	Window Start		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Cron Fields

Field	Type	Required	Description
-------	------	----------	-------------

<code>cron</code>	<code>cron-expression</code> (string)	✓	The Cron pattern.
<code>immediate</code> ✓	<code>boolean</code> (bool)		Run as soon as invoked, instead of waiting for the specified cron interval. Default: <code>false</code>
<code>random-offset</code>	<code>duration</code> (string)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	<code>Window</code>		Optional window definition when the schedule should only read a bounded range.

Trigger - Interval - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (string)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (string)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (string)	✓	Window size.
<code>offset</code>	<code>duration</code> (string)		Window offset. Default: <code>0s</code>
<code>start</code>	<code>Window Start</code>		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Interval Fields

Field	Type	Required	Description
<code>duration</code>	<code>duration</code> (string)	✓	Duration to wait between events.
<code>random-offset</code>	<code>duration</code> (string)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	<code>Window</code>		Optional window definition when the interval should only cover a bounded range.

Block Input Mode Options

Value	Name	Description
-------	------	-------------

<code>list-and-download-objects</code>	list-and-download-objects	List Objects and Download
<code>list-objects</code>	list-objects	List Objects
<code>download-objects</code>	download-objects	Download Given Objects

Payload Mode Options

Value	Name	Description
<code>auto</code>	auto	Auto
<code>json</code>	json	Json
<code>raw</code>	raw	Raw
<code>binary</code>	binary	Binary

Input Preprocessor Options

Value	Name	Description
<code>extension</code>	extension	Preprocess the object or blob based on the extension of the object or blob name (.gz, .parquet)
<code>gzip</code>	gzip	UnGzip the received data
<code>parquet</code>	parquet	Extract the received data as JSON rows from a parquet file
<code>base64</code>	base64	Encode the binary data as base64

Trigger - Message - Filter Kind Options

Value	Name	Description
<code>system</code>	system	System
<code>user</code>	user	User
<code>runtime-artifact-fetch</code>	runtime-artifact-fetch	Runtime Artifact Fetch
<code>runtime-artifact-fetch-error</code>	runtime-artifact-fetch-error	Runtime Artifact Fetch Error
<code>runtime-artifact-clear</code>	runtime-artifact-clear	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch-reply</code>	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
<code>runtime-artifact-update</code>	runtime-artifact-update	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	runtime-artifact-update-ack	Runtime Artifact Update Ack

Trigger - Message - Filter Source Options

Value	Name	Description
-------	------	-------------

job	job	Job
worker	worker	Worker
server	server	Server

Trigger - Message - Filter Type Options

Value	Name	Description
worker-licensed	worker-licensed	Worker Licensed
worker-unlicensed	worker-unlicensed	Worker Unlicensed
variable	variable	Variable
variable-deleted	variable-deleted	Variable Deleted
begin-shutting-down-job	begin-shutting-down-job	Begin Shutting Down Job
begin-shutting-down-server	begin-shutting-down-server	Begin Shutting Down Server
begin-shutting-down-worker	begin-shutting-down-worker	Begin Shutting Down Worker
broadcast-job-thread-state	broadcast-job-thread-state	Broadcast Job Thread State
broadcast-server-thread-state	broadcast-server-thread-state	Broadcast Server Thread State
broadcast-worker-thread-state	broadcast-worker-thread-state	Broadcast Worker Thread State
check-job-report-time	check-job-report-time	Check Job Report Time
check-worker-report-time	check-worker-report-time	Check Worker Report Time
de-register-job-thread-dependency	de-register-job-thread-dependency	De Register Job Thread Dependency
de-register-server-thread-dependency	de-register-server-thread-dependency	De Register Server Thread Dependency
de-register-worker-thread-dependency	de-register-worker-thread-dependency	De Register Worker Thread Dependency
deployed-job-active	deployed-job-active	Deployed Job Active
deployed-job-removed	deployed-job-removed	Deployed Job Removed
deployed-job-should-be-running	deployed-job-should-be-running	Deployed Job Should Be Running
deployment-phase	deployment-phase	Deployment Phase
heart-beat	heart-beat	Heart Beat
initialise-internal-state	initialise-internal-state	Initialise Internal State
initialise-job-states	initialise-job-states	Initialise Job States
job-batch-end	job-batch-end	Job Batch End
job-backlog-update	job-backlog-update	Job Backlog Update
job-checkpoint-update	job-checkpoint-update	Job Checkpoint Update

<code>job-deploy-ready</code>	<code>job-deploy-ready</code>	Job Deploy Ready
<code>job-deployed</code>	<code>job-deployed</code>	Job Deployed
<code>job-document-end</code>	<code>job-document-end</code>	Job Document End
<code>job-document-start</code>	<code>job-document-start</code>	Job Document Start
<code>job-errors</code>	<code>job-errors</code>	Job Errors
<code>job-execution-anomaly</code>	<code>job-execution-anomaly</code>	Job Execution Anomaly
<code>job-execution-status</code>	<code>job-execution-status</code>	Job Execution Status
<code>job-emit-custom</code>	<code>job-emit-custom</code>	Job Emit Custom
<code>job-finished</code>	<code>job-finished</code>	Job Finished
<code>job-idle</code>	<code>job-idle</code>	Job Idle
<code>job-initiated</code>	<code>job-initiated</code>	Job Initiated
<code>job-is-processing</code>	<code>job-is-processing</code>	Job Is Processing
<code>job-logs</code>	<code>job-logs</code>	Job Logs
<code>job-metrics</code>	<code>job-metrics</code>	Job Metrics
<code>job-notifications</code>	<code>job-notifications</code>	Job Notifications
<code>job-removing</code>	<code>job-removing</code>	Job Removing
<code>job-removed</code>	<code>job-removed</code>	Job Removed
<code>job-remove-failed</code>	<code>job-remove-failed</code>	Job Remove Failed
<code>job-remove-ready</code>	<code>job-remove-ready</code>	Job Remove Ready
<code>job-replaced</code>	<code>job-replaced</code>	Job Replaced
<code>job-required</code>	<code>job-required</code>	Job Required
<code>job-run-ended</code>	<code>job-run-ended</code>	Job Run Ended
<code>job-runtime-error</code>	<code>job-runtime-error</code>	Job Runtime Error
<code>job-runtime-settings</code>	<code>job-runtime-settings</code>	Job Runtime Settings
<code>job-run-started</code>	<code>job-run-started</code>	Job Run Started
<code>job-running-docker</code>	<code>job-running-docker</code>	Job Running Docker
<code>job-running-script</code>	<code>job-running-script</code>	Job Running Script
<code>job-running-subprocess</code>	<code>job-running-subprocess</code>	Job Running Subprocess
<code>job-running-system-d</code>	<code>job-running-system-d</code>	Job Running System D
<code>job-settings</code>	<code>job-settings</code>	Job Settings
<code>job-step-statistics</code>	<code>job-step-statistics</code>	Job Step Statistics
<code>job-started</code>	<code>job-started</code>	Job Started

job-staged	job-staged	Job Staged
job-state-transition	job-state-transition	Job State Transition
job-shutting-down	job-shutting-down	Job Shutting Down
job-stopping	job-stopping	Job Stopping
job-stopped	job-stopped	Job Stopped
job-timed-out	job-timed-out	Job Timed Out
job-suspicious-silence	job-suspicious-silence	Job Suspicious Silence
job-thread-state	job-thread-state	Job Thread State
job-trace	job-trace	Job Trace
job-trace-requires-samples	job-trace-requires-samples	Job Trace Requires Samples
job-updated	job-updated	Job Updated
job-worker-comms-error	job-worker-comms-error	Job Worker Comms Error
job-unstaged	job-unstaged	Job Unstaged
license-state-changed	license-state-changed	License State Changed
license-validation-failed	license-validation-failed	License Validation Failed
license-validation-ok	license-validation-ok	License Validation Ok
license-volume-violation	license-volume-violation	License Volume Violation
new-license	new-license	New License
override-job-coordinated-shutdown	override-job-coordinated-shutdown	Override Job Coordinated Shutdown
override-server-coordinated-shutdown	override-server-coordinated-shutdown	Override Server Coordinated Shutdown
override-worker-coordinated-shutdown	override-worker-coordinated-shutdown	Override Worker Coordinated Shutdown
register-job-thread-dependency	register-job-thread-dependency	Register Job Thread Dependency
register-server-thread-dependency	register-server-thread-dependency	Register Server Thread Dependency
register-worker-thread-dependency	register-worker-thread-dependency	Register Worker Thread Dependency
run-job-failure	run-job-failure	Run Job Failure
server-logs	server-logs	Server Logs
server-metrics-batch	server-metrics-batch	Server Metrics Batch
server-started	server-started	Server Started
server-starting	server-starting	Server Starting
server-stopping	server-stopping	Server Stopping

<code>server-thread-state</code>	server-thread-state	Server Thread State
<code>server-worker-comms-error</code>	server-worker-comms-error	Server Worker Comms Error
<code>shutdown-jobs</code>	shutdown-jobs	Shutdown Jobs
<code>shutdown-worker</code>	shutdown-worker	Shutdown Worker
<code>system-shutdown</code>	system-shutdown	System Shutdown
<code>update-upstream-sync-for-job</code>	update-upstream-sync-for-job	Update Upstream Sync For Job
<code>update-upstream-sync-for-worker</code>	update-upstream-sync-for-worker	Update Upstream Sync For Worker
<code>update-variable</code>	update-variable	Update Variable
<code>user-alert</code>	user-alert	User Alert
<code>user-generated</code>	user-generated	User Generated
<code>user-notification</code>	user-notification	User Notification
<code>worker-command-for-job</code>	worker-command-for-job	Worker Command For Job
<code>worker-auth-lease-ack</code>	worker-auth-lease-ack	Worker Auth Lease Ack
<code>worker-connected</code>	worker-connected	Worker Connected
<code>worker-created</code>	worker-created	Worker Created
<code>worker-debug-heart-beat</code>	worker-debug-heart-beat	Worker Debug Heart Beat
<code>worker-error</code>	worker-error	Worker Error
<code>worker-first-seen</code>	worker-first-seen	Worker First Seen
<code>worker-heart-beat</code>	worker-heart-beat	Worker Heart Beat
<code>worker-logs</code>	worker-logs	Worker Logs
<code>worker-metrics-batch</code>	worker-metrics-batch	Worker Metrics Batch
<code>worker-offline</code>	worker-offline	Worker Offline
<code>worker-requests-auth-lease</code>	worker-requests-auth-lease	Worker Requests Auth Lease
<code>worker-server-comms-error</code>	worker-server-comms-error	Worker Server Comms Error
<code>worker-settings</code>	worker-settings	Worker Settings
<code>worker-shutdown</code>	worker-shutdown	Worker Shutdown
<code>worker-shutting-down</code>	worker-shutting-down	Worker Shutting Down
<code>worker-started</code>	worker-started	Worker Started
<code>worker-state-uuid</code>	worker-state-uuid	Worker State Uuid
<code>worker-stopping</code>	worker-stopping	Worker Stopping
<code>worker-suspicious-silence</code>	worker-suspicious-silence	Worker Suspicious Silence
<code>worker-system-information</code>	worker-system-information	Worker System Information

<code>worker-thread-state</code>	worker-thread-state	Worker Thread State
<code>worker-updated</code>	worker-updated	Worker Updated
<code>worker-modified</code>	worker-modified	Worker Modified
<code>worker-removed</code>	worker-removed	Worker Removed
<code>context-changed</code>	context-changed	Context Changed
<code>rerender-deployment</code>	rerender-deployment	Rerender Deployment
<code>job-killed</code>	job-killed	Job Killed
<code>message-serviced</code>	message-serviced	Message Serviced
<code>failed-to-service-message</code>	failed-to-service-message	Failed To Service Message
<code>worker-wants-initial-settings</code>	worker-wants-initial-settings	Worker Wants Initial Settings
<code>worker-wants-initial-settings-reply</code>	worker-wants-initial-settings-reply	Worker Wants Initial Settings Reply
<code>worker-wants-deployed-jobs</code>	worker-wants-deployed-jobs	Worker Wants Deployed Jobs
<code>worker-wants-deployed-jobs-reply</code>	worker-wants-deployed-jobs-reply	Worker Wants Deployed Jobs Reply
<code>worker-wants-job-configuration</code>	worker-wants-job-configuration	Worker Wants Job Configuration
<code>worker-wants-job-configuration-reply</code>	worker-wants-job-configuration-reply	Worker Wants Job Configuration Reply
<code>job-wants-dslir-key</code>	job-wants-dslir-key	Job Wants Dslir Key
<code>job-wants-dslir-key-reply</code>	job-wants-dslir-key-reply	Job Wants Dslir Key Reply
<code>worker-wants-dslir-key</code>	worker-wants-dslir-key	Worker Wants Dslir Key
<code>worker-wants-dslir-key-reply</code>	worker-wants-dslir-key-reply	Worker Wants Dslir Key Reply
<code>job-wants-variables</code>	job-wants-variables	Job Wants Variables
<code>job-wants-variables-reply</code>	job-wants-variables-reply	Job Wants Variables Reply
<code>job-wants-credentials</code>	job-wants-credentials	Job Wants Credentials
<code>job-wants-credentials-reply</code>	job-wants-credentials-reply	Job Wants Credentials Reply
<code>job-wants-credentials-error</code>	job-wants-credentials-error	Job Wants Credentials Error
<code>job-wants-secret-variables-reply</code>	job-wants-secret-variables-reply	Job Wants Secret Variables Reply
<code>job-credentials-invalidated</code>	job-credentials-invalidated	Job Credentials Invalidated
<code>aggregator-health</code>	aggregator-health	Aggregator Health
<code>worker-aggregator-health</code>	worker-aggregator-health	Worker Aggregator Health
<code>worker-verification-token</code>	worker-verification-token	Worker Verification Token
<code>worker-requests-verification-token</code>	worker-requests-verification-token	Worker Requests Verification Token

<code>runtime-artifact-update</code>	<code>runtime-artifact-update</code>	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	<code>runtime-artifact-update-ack</code>	Runtime Artifact Update Ack
<code>runtime-artifact-clear</code>	<code>runtime-artifact-clear</code>	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	<code>runtime-artifact-clear-ack</code>	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch</code>	<code>runtime-artifact-fetch</code>	Runtime Artifact Fetch
<code>runtime-artifact-fetch-reply</code>	<code>runtime-artifact-fetch-reply</code>	Runtime Artifact Fetch Reply
<code>runtime-artifact-fetch-error</code>	<code>runtime-artifact-fetch-error</code>	Runtime Artifact Fetch Error

ODBC SQL

Reference for the ODBC SQL component in LyftData's DSL

Source: [reference/dsl/inputs/sql-odbc.md](#)

ODBC SQL (`sql-odbc`)

Query relational databases over ODBC or stream change data capture events.

Database Enterprise edition json

Minimal example

```
input:
sql-odbc: connection: url: url: ""
```

JSON

```
{
  "input": { "sql-odbc": { "connection": { "url": { "url": "" } } } } }
```

Contents

- [Minimal example](#)
- [Connection](#)
- [Mode](#)
- [Output](#)
- [Processing](#)
- [Query](#)
- [Reliability](#)
- [Trigger](#)
- [Schema](#)

Connection

Connection

Field	Type	Required	Description
<code>connection</code>	Connection	✓	Connection details for the target database. Allowed values: <code>url</code> , <code>parts</code>

Mode

Mode

Field	Type	Required	Description
<code>mode</code>	<code>Mode</code>		Operating mode (one-shot queries or CDC polling). Allowed values: <code>query</code> , <code>cdc</code>
<code>cdc</code>	<code>Cdc</code>		CDC configuration (required when <code>mode = cdc</code>).

Output

Output

Field	Type	Required	Description
<code>stream-results</code> ✓	<code>boolean (bool)</code>		Stream rows to downstream consumers as they arrive (ODBC streams by default). Default: <code>false</code>
<code>auto-row-json</code> ✓	<code>boolean (bool)</code>		Automatically build JSON objects per row using column metadata. Default: <code>false</code>
<code>auto-type-mapping</code> ✓	<code>boolean (bool)</code>		Convert native SQL types to JSON (requires <code>auto-row-json</code>). Default: <code>false</code>
<code>column-overrides</code>	<code>[Column Overrides[]]</code> (#column-overrides-fields)		Per-column coercions when auto-row-json is enabled.

Processing

Processing

Field	Type	Required	Description
<code>batch</code>	<code>Batch</code>		Optional batching semantics shared with other inputs.

Query

Query

Field	Type	Required	Description
<code>query</code>	<code>multiline-text (string)</code>		Inline SQL statement executed when <code>query-file</code> is not provided.
<code>query-file</code>	<code>path (string)</code>		Path to a SQL file executed when <code>query</code> is not provided. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>
<code>parameters</code>	<code>[Parameters[]]</code> (#parameters-fields)		Bindings that map event fields into parameter placeholders.

Reliability

Reliability

Field	Type	Required	Description
<code>retry</code>	<code>Retry</code>		Retry policy for transient failures.

Trigger

Trigger

Field	Type	Required	Description
<code>trigger</code>	<code>Trigger</code>		Optional schedule for polling queries and CDC refresh. Allowed values: <code>message</code> , <code>cron</code> , <code>interval</code>

Schema

- [Connection Options](#)
- [Trigger - Cron - Window - Window Start Options](#)
- [Trigger - Interval - Window - Window Start Options](#)
- [Trigger Options](#)
- [Connection - Url Fields](#)
- [Connection - Parts - Tuning Fields](#)
- [Connection - Parts Fields](#)
- [Cdc Fields](#)
- [Column Overrides Fields](#)
- [Batch Fields](#)
- [Parameters Fields](#)
- [Retry Fields](#)
- [Trigger - Message Fields](#)
- [Trigger - Cron - Window - Window Start - Start Time Fields](#)
- [Trigger - Cron - Window Fields](#)
- [Trigger - Cron Fields](#)
- [Trigger - Interval - Window - Window Start - Start Time Fields](#)
- [Trigger - Interval - Window Fields](#)
- [Trigger - Interval Fields](#)
- [Mode Options](#)
- [Column Overrides - As Type Options](#)
- [Trigger - Message - Filter Kind Options](#)
- [Trigger - Message - Filter Source Options](#)
- [Trigger - Message - Filter Type Options](#)

Connection Options

Option	Name	Type	Description
<code>url</code>	Url	<code>object</code>	
<code>parts</code>	Parts	<code>object</code>	

Trigger - Cron - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	object	
<code>tracked</code>	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	object	
<code>tracked</code>	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger Options

Option	Name	Type	Description
<code>message</code>	Message	object	
<code>cron</code>	Cron	object	
<code>interval</code>	Interval	object	

Connection - Url Fields

Field	Type	Required	Description
<code>url</code>	<code>url (string)</code>	<input checked="" type="checkbox"/>	Database connection URL (sqlx/ODBC compatible). Examples: <code>https://example.com/path</code>
<code>max-connections</code>	<code>number (integer)</code>		Maximum size of the async connection pool. Examples: <code>42</code> , <code>1.2e-10</code>
<code>min-connections</code>	<code>number (integer)</code>		Minimum number of connections retained in the pool. Examples: <code>42</code> , <code>1.2e-10</code>
<code>connect-timeout</code>	<code>string</code>		Optional connection timeout (humantime duration string).
<code>idle-timeout</code>	<code>string</code>		Optional idle timeout (humantime duration string).
<code>schema</code>	<code>string</code>		Optional schema override applied after connect.
<code>options</code>	<code>string[]</code>		Statements executed after connect (e.g. SET search_path TO ...).
<code>disable-tls-verification</code> ✓	<code>boolean (bool)</code>		Skip TLS verification (development only). Default: <code>false</code>

Connection - Parts - Tuning Fields

Field	Type	Required	Description
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<code>max-connections</code>	<code>number</code> (<code>integer</code>)		Maximum size of the async connection pool. Examples: <code>42</code> , <code>1.2e-10</code>
<code>min-connections</code>	<code>number</code> (<code>integer</code>)		Minimum number of connections retained in the pool. Examples: <code>42</code> , <code>1.2e-10</code>
<code>connect-timeout</code>	<code>string</code>		Optional connection timeout (humantime duration string).
<code>idle-timeout</code>	<code>string</code>		Optional idle timeout (humantime duration string).
<code>schema</code>	<code>string</code>		Optional schema override applied after connect.
<code>options</code>	<code>string[]</code>		Statements executed after connect (e.g. SET search_path TO ...).
<code>disable-tls-verification</code> ✓	<code>boolean</code> (<code>bool</code>)		Skip TLS verification (development only). Default: <code>false</code>

Connection - Parts Fields

Field	Type	Required	Description
<code>tuning</code>	<code>Tuning</code>	✓	
<code>connection-string</code>	<code>string</code>	✓	ODBC connection string (translated to <code>odbc:<connection-string></code>).

Cdc Fields

Field	Type	Required	Description
<code>cursor-column</code>	<code>string</code>		Column used to order and resume polling.
<code>resume-token-field</code>	<code>field</code> (<code>string</code>)		JSON field containing the resume token in emitted rows. Examples: <code>data_field</code>
<code>poll-interval</code>	<code>string</code>		Optional polling cadence override (humantime duration).
<code>state-id</code>	<code>string</code>		Explicit runtime-artifact state identifier override.
<code>state-version</code>	<code>number</code> (<code>integer</code>)		Optional state version used to rotate runtime artefacts on schema changes. Examples: <code>42</code> , <code>1.2e-10</code>

Column Overrides Fields

Field	Type	Required	Description
<code>column</code>	<code>string</code>	✓	
<code>as-type</code>	<code>As Type</code>		Allowed values: <code>string</code> , <code>number</code> , <code>boolean</code> , <code>json</code> , <code>base64</code>

Batch Fields

Field	Type	Required	Description
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<code>uuid-field</code>	<code>field</code> (<code>string</code>)		Field where generated uuid, the unique marker for the group, will be stored. Examples: <code>data_field</code>
<code>invocation-time-field</code>	<code>field</code> (<code>string</code>)		Field where invocation time will be stored. Examples: <code>data_field</code>
<code>completion-time-field</code>	<code>field</code> (<code>string</code>)		Field where completion (end of execution) time will be stored. Examples: <code>data_field</code>
<code>begin-marker-field</code>	<code>field</code> (<code>string</code>)		Field used to mark first event in the group. Examples: <code>data_field</code>
<code>end-marker-field</code>	<code>field</code> (<code>string</code>)		Field used to mark last event in the group. Examples: <code>data_field</code>
<code>line-count-field</code>	<code>field</code> (<code>string</code>)		Field used to store the line count of the batch. Examples: <code>data_field</code>
<code>line-num-field</code>	<code>field</code> (<code>string</code>)		Field used to store the line number of the batch. Examples: <code>data_field</code>

Parameters Fields

Field	Type	Required	Description
<code>name</code>	<code>string</code>	✓	
<code>field</code>	<code>string</code>	✓	
<code>default</code>	<code>multiline-text</code> (<code>string</code>)		

Retry Fields

Field	Type	Required	Description
<code>timeout</code>	<code>time-interval</code> (<code>string</code>)	✓	timeout (e.g. 500ms, 2s etc. - default is 30). Examples: <code>500ms</code> , <code>2h</code>
<code>retries</code>	<code>number</code> (<code>integer</code>)		number of retries. Examples: <code>42</code> , <code>1.2e-10</code>

Trigger - Message Fields

Field	Type	Required	Description
<code>limit</code> ✓	<code>number</code> (<code>integer</code>)		The number of times to run the input. Examples: <code>42</code> , <code>1.2e-10</code>
<code>filter-kind</code>	<code>Filter Kind</code>		Specifies whether the message originated from the "system" or by the "user". Allowed values: <code>system</code> , <code>user</code> , <code>runtime-artifact-fetch</code> , <code>runtime-artifact-fetch-error</code> , <code>runtime-artifact-clear</code> , <code>runtime-artifact-clear-ack</code> , <code>runtime-artifact-fetch-reply</code> , <code>runtime-artifact-update</code> , <code>runtime-artifact-update-ack</code>
<code>filter-source</code>	[<code>Filter Source</code>] (#trigger-message-		Specifies what process generated the message. Was it a "server", "worker" or "job"? Allowed values: <code>job</code> , <code>worker</code> , <code>server</code>

	filter-source-options)		
filter-worker	string		Specifies what worker to select.
filter-job	string		Specifies the name of the job that the message came from.
filter-type	[Filter Type[]] (#trigger-message-filter-type-options)		Specifies that particular types of message ought to match. Allowed values: worker-licensed, worker-unlicensed, variable, variable-deleted, begin-shutting-down-job, begin-shutting-down-server, begin-shutting-down-worker, broadcast-job-thread-state, broadcast-server-thread-state, broadcast-worker-thread-state, ...
filter-tag	string		Specifies that messages matched ought to carry a tag with a particular value. This only matches against user-generated messages.

Trigger - Cron - Window - Window Start - Start Time Fields

Field	Type	Required	Description
start-time	time-format (string)	✓	Allows the windowing to start at a specified time. Hint: %Y-%m-%d %H:%M:%S%.3f %z
highwatermark-file	path (string)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: /path/to/file, c:\users\joe\data\file.txt

Trigger - Cron - Window Fields

Field	Type	Required	Description
size	duration (string)	✓	Window size.
offset	duration (string)		Window offset. Default: 0s
start	Window Start		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: start-time, tracked

Trigger - Cron Fields

Field	Type	Required	Description
cron	cron-expression (string)	✓	The Cron pattern.
immediate ✓	boolean (bool)		Run as soon as invoked, instead of waiting for the specified cron interval. Default: false
random-offset	duration (string)		Sets a random offset to the schedule, then sticks to it. Default: 0s

<code>window</code>	<code>Window</code>		Optional window definition when the schedule should only read a bounded range.
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Trigger - Interval - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (string)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (string)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (string)	✓	Window size.
<code>offset</code>	<code>duration</code> (string)		Window offset. Default: <code>0s</code>
<code>start</code>	<code>Window Start</code>		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Interval Fields

Field	Type	Required	Description
<code>duration</code>	<code>duration</code> (string)	✓	Duration to wait between events.
<code>random-offset</code>	<code>duration</code> (string)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	<code>Window</code>		Optional window definition when the interval should only cover a bounded range.

Mode Options

Value	Name	Description
<code>query</code>	<code>query</code>	Query
<code>cdc</code>	<code>cdc</code>	Cdc

Column Overrides - As Type Options

Value	Name	Description
-------	------	-------------

string	string	String
number	number	Number
boolean	boolean	Boolean
json	json	Json
base64	base64	Base64

Trigger - Message - Filter Kind Options

Value	Name	Description
system	system	System
user	user	User
runtime-artifact-fetch	runtime-artifact-fetch	Runtime Artifact Fetch
runtime-artifact-fetch-error	runtime-artifact-fetch-error	Runtime Artifact Fetch Error
runtime-artifact-clear	runtime-artifact-clear	Runtime Artifact Clear
runtime-artifact-clear-ack	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
runtime-artifact-fetch-reply	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
runtime-artifact-update	runtime-artifact-update	Runtime Artifact Update
runtime-artifact-update-ack	runtime-artifact-update-ack	Runtime Artifact Update Ack

Trigger - Message - Filter Source Options

Value	Name	Description
job	job	Job
worker	worker	Worker
server	server	Server

Trigger - Message - Filter Type Options

Value	Name	Description
worker-licensed	worker-licensed	Worker Licensed
worker-unlicensed	worker-unlicensed	Worker Unlicensed
variable	variable	Variable
variable-deleted	variable-deleted	Variable Deleted
begin-shutting-down-job	begin-shutting-down-job	Begin Shutting Down Job
begin-shutting-down-server	begin-shutting-down-server	Begin Shutting Down Server

<code>begin-shutting-down-worker</code>	<code>begin-shutting-down-worker</code>	Begin Shutting Down Worker
<code>broadcast-job-thread-state</code>	<code>broadcast-job-thread-state</code>	Broadcast Job Thread State
<code>broadcast-server-thread-state</code>	<code>broadcast-server-thread-state</code>	Broadcast Server Thread State
<code>broadcast-worker-thread-state</code>	<code>broadcast-worker-thread-state</code>	Broadcast Worker Thread State
<code>check-job-report-time</code>	<code>check-job-report-time</code>	Check Job Report Time
<code>check-worker-report-time</code>	<code>check-worker-report-time</code>	Check Worker Report Time
<code>de-register-job-thread-dependency</code>	<code>de-register-job-thread-dependency</code>	De Register Job Thread Dependency
<code>de-register-server-thread-dependency</code>	<code>de-register-server-thread-dependency</code>	De Register Server Thread Dependency
<code>de-register-worker-thread-dependency</code>	<code>de-register-worker-thread-dependency</code>	De Register Worker Thread Dependency
<code>deployed-job-active</code>	<code>deployed-job-active</code>	Deployed Job Active
<code>deployed-job-removed</code>	<code>deployed-job-removed</code>	Deployed Job Removed
<code>deployed-job-should-be-running</code>	<code>deployed-job-should-be-running</code>	Deployed Job Should Be Running
<code>deployment-phase</code>	<code>deployment-phase</code>	Deployment Phase
<code>heart-beat</code>	<code>heart-beat</code>	Heart Beat
<code>initialise-internal-state</code>	<code>initialise-internal-state</code>	Initialise Internal State
<code>initialise-job-states</code>	<code>initialise-job-states</code>	Initialise Job States
<code>job-batch-end</code>	<code>job-batch-end</code>	Job Batch End
<code>job-backlog-update</code>	<code>job-backlog-update</code>	Job Backlog Update
<code>job-checkpoint-update</code>	<code>job-checkpoint-update</code>	Job Checkpoint Update
<code>job-deploy-ready</code>	<code>job-deploy-ready</code>	Job Deploy Ready
<code>job-deployed</code>	<code>job-deployed</code>	Job Deployed
<code>job-document-end</code>	<code>job-document-end</code>	Job Document End
<code>job-document-start</code>	<code>job-document-start</code>	Job Document Start
<code>job-errors</code>	<code>job-errors</code>	Job Errors
<code>job-execution-anomaly</code>	<code>job-execution-anomaly</code>	Job Execution Anomaly
<code>job-execution-status</code>	<code>job-execution-status</code>	Job Execution Status
<code>job-emit-custom</code>	<code>job-emit-custom</code>	Job Emit Custom
<code>job-finished</code>	<code>job-finished</code>	Job Finished
<code>job-idle</code>	<code>job-idle</code>	Job Idle
<code>job-initiated</code>	<code>job-initiated</code>	Job Initiated

<code>job-is-processing</code>	job-is-processing	Job Is Processing
<code>job-logs</code>	job-logs	Job Logs
<code>job-metrics</code>	job-metrics	Job Metrics
<code>job-notifications</code>	job-notifications	Job Notifications
<code>job-removing</code>	job-removing	Job Removing
<code>job-removed</code>	job-removed	Job Removed
<code>job-remove-failed</code>	job-remove-failed	Job Remove Failed
<code>job-remove-ready</code>	job-remove-ready	Job Remove Ready
<code>job-replaced</code>	job-replaced	Job Replaced
<code>job-required</code>	job-required	Job Required
<code>job-run-ended</code>	job-run-ended	Job Run Ended
<code>job-runtime-error</code>	job-runtime-error	Job Runtime Error
<code>job-runtime-settings</code>	job-runtime-settings	Job Runtime Settings
<code>job-run-started</code>	job-run-started	Job Run Started
<code>job-running-docker</code>	job-running-docker	Job Running Docker
<code>job-running-script</code>	job-running-script	Job Running Script
<code>job-running-subprocess</code>	job-running-subprocess	Job Running Subprocess
<code>job-running-system-d</code>	job-running-system-d	Job Running System D
<code>job-settings</code>	job-settings	Job Settings
<code>job-step-statistics</code>	job-step-statistics	Job Step Statistics
<code>job-started</code>	job-started	Job Started
<code>job-staged</code>	job-staged	Job Staged
<code>job-state-transition</code>	job-state-transition	Job State Transition
<code>job-shutting-down</code>	job-shutting-down	Job Shutting Down
<code>job-stopping</code>	job-stopping	Job Stopping
<code>job-stopped</code>	job-stopped	Job Stopped
<code>job-timed-out</code>	job-timed-out	Job Timed Out
<code>job-suspicious-silence</code>	job-suspicious-silence	Job Suspicious Silence
<code>job-thread-state</code>	job-thread-state	Job Thread State
<code>job-trace</code>	job-trace	Job Trace
<code>job-trace-requires-samples</code>	job-trace-requires-samples	Job Trace Requires Samples
<code>job-updated</code>	job-updated	Job Updated

job-worker-comms-error	job-worker-comms-error	Job Worker Comms Error
job-unstaged	job-unstaged	Job Unstaged
license-state-changed	license-state-changed	License State Changed
license-validation-failed	license-validation-failed	License Validation Failed
license-validation-ok	license-validation-ok	License Validation Ok
license-volume-violation	license-volume-violation	License Volume Violation
new-license	new-license	New License
override-job-coordinated-shutdown	override-job-coordinated-shutdown	Override Job Coordinated Shutdown
override-server-coordinated-shutdown	override-server-coordinated-shutdown	Override Server Coordinated Shutdown
override-worker-coordinated-shutdown	override-worker-coordinated-shutdown	Override Worker Coordinated Shutdown
register-job-thread-dependency	register-job-thread-dependency	Register Job Thread Dependency
register-server-thread-dependency	register-server-thread-dependency	Register Server Thread Dependency
register-worker-thread-dependency	register-worker-thread-dependency	Register Worker Thread Dependency
run-job-failure	run-job-failure	Run Job Failure
server-logs	server-logs	Server Logs
server-metrics-batch	server-metrics-batch	Server Metrics Batch
server-started	server-started	Server Started
server-starting	server-starting	Server Starting
server-stopping	server-stopping	Server Stopping
server-thread-state	server-thread-state	Server Thread State
server-worker-comms-error	server-worker-comms-error	Server Worker Comms Error
shutdown-jobs	shutdown-jobs	Shutdown Jobs
shutdown-worker	shutdown-worker	Shutdown Worker
system-shutdown	system-shutdown	System Shutdown
update-upstream-sync-for-job	update-upstream-sync-for-job	Update Upstream Sync For Job
update-upstream-sync-for-worker	update-upstream-sync-for-worker	Update Upstream Sync For Worker
update-variable	update-variable	Update Variable
user-alert	user-alert	User Alert
user-generated	user-generated	User Generated
user-notification	user-notification	User Notification

<code>worker-command-for-job</code>	<code>worker-command-for-job</code>	Worker Command For Job
<code>worker-auth-lease-ack</code>	<code>worker-auth-lease-ack</code>	Worker Auth Lease Ack
<code>worker-connected</code>	<code>worker-connected</code>	Worker Connected
<code>worker-created</code>	<code>worker-created</code>	Worker Created
<code>worker-debug-heart-beat</code>	<code>worker-debug-heart-beat</code>	Worker Debug Heart Beat
<code>worker-error</code>	<code>worker-error</code>	Worker Error
<code>worker-first-seen</code>	<code>worker-first-seen</code>	Worker First Seen
<code>worker-heart-beat</code>	<code>worker-heart-beat</code>	Worker Heart Beat
<code>worker-logs</code>	<code>worker-logs</code>	Worker Logs
<code>worker-metrics-batch</code>	<code>worker-metrics-batch</code>	Worker Metrics Batch
<code>worker-offline</code>	<code>worker-offline</code>	Worker Offline
<code>worker-requests-auth-lease</code>	<code>worker-requests-auth-lease</code>	Worker Requests Auth Lease
<code>worker-server-comms-error</code>	<code>worker-server-comms-error</code>	Worker Server Comms Error
<code>worker-settings</code>	<code>worker-settings</code>	Worker Settings
<code>worker-shutdown</code>	<code>worker-shutdown</code>	Worker Shutdown
<code>worker-shutting-down</code>	<code>worker-shutting-down</code>	Worker Shutting Down
<code>worker-started</code>	<code>worker-started</code>	Worker Started
<code>worker-state-uuid</code>	<code>worker-state-uuid</code>	Worker State Uuid
<code>worker-stopping</code>	<code>worker-stopping</code>	Worker Stopping
<code>worker-suspicious-silence</code>	<code>worker-suspicious-silence</code>	Worker Suspicious Silence
<code>worker-system-information</code>	<code>worker-system-information</code>	Worker System Information
<code>worker-thread-state</code>	<code>worker-thread-state</code>	Worker Thread State
<code>worker-updated</code>	<code>worker-updated</code>	Worker Updated
<code>worker-modified</code>	<code>worker-modified</code>	Worker Modified
<code>worker-removed</code>	<code>worker-removed</code>	Worker Removed
<code>context-changed</code>	<code>context-changed</code>	Context Changed
<code>rerender-deployment</code>	<code>rerender-deployment</code>	Rerender Deployment
<code>job-killed</code>	<code>job-killed</code>	Job Killed
<code>message-serviced</code>	<code>message-serviced</code>	Message Serviced
<code>failed-to-service-message</code>	<code>failed-to-service-message</code>	Failed To Service Message
<code>worker-wants-initial-settings</code>	<code>worker-wants-initial-settings</code>	Worker Wants Initial Settings

worker-wants-initial-settings-reply	worker-wants-initial-settings-reply	Worker Wants Initial Settings Reply
worker-wants-deployed-jobs	worker-wants-deployed-jobs	Worker Wants Deployed Jobs
worker-wants-deployed-jobs-reply	worker-wants-deployed-jobs-reply	Worker Wants Deployed Jobs Reply
worker-wants-job-configuration	worker-wants-job-configuration	Worker Wants Job Configuration
worker-wants-job-configuration-reply	worker-wants-job-configuration-reply	Worker Wants Job Configuration Reply
job-wants-dslir-key	job-wants-dslir-key	Job Wants Dslir Key
job-wants-dslir-key-reply	job-wants-dslir-key-reply	Job Wants Dslir Key Reply
worker-wants-dslir-key	worker-wants-dslir-key	Worker Wants Dslir Key
worker-wants-dslir-key-reply	worker-wants-dslir-key-reply	Worker Wants Dslir Key Reply
job-wants-variables	job-wants-variables	Job Wants Variables
job-wants-variables-reply	job-wants-variables-reply	Job Wants Variables Reply
job-wants-credentials	job-wants-credentials	Job Wants Credentials
job-wants-credentials-reply	job-wants-credentials-reply	Job Wants Credentials Reply
job-wants-credentials-error	job-wants-credentials-error	Job Wants Credentials Error
job-wants-secret-variables-reply	job-wants-secret-variables-reply	Job Wants Secret Variables Reply
job-credentials-invalidated	job-credentials-invalidated	Job Credentials Invalidated
aggregator-health	aggregator-health	Aggregator Health
worker-aggregator-health	worker-aggregator-health	Worker Aggregator Health
worker-verification-token	worker-verification-token	Worker Verification Token
worker-requests-verification-token	worker-requests-verification-token	Worker Requests Verification Token
runtime-artifact-update	runtime-artifact-update	Runtime Artifact Update
runtime-artifact-update-ack	runtime-artifact-update-ack	Runtime Artifact Update Ack
runtime-artifact-clear	runtime-artifact-clear	Runtime Artifact Clear
runtime-artifact-clear-ack	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
runtime-artifact-fetch	runtime-artifact-fetch	Runtime Artifact Fetch
runtime-artifact-fetch-reply	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
runtime-artifact-fetch-error	runtime-artifact-fetch-error	Runtime Artifact Fetch Error

SQL Server

Reference for the SQL Server component in LyftData's DSL

Source: `reference/dsl/inputs/sql-server.md`

SQL Server (`sql-server`)

Query Microsoft SQL Server databases.

Database Enterprise edition json

Minimal example

```
input:
sql-server: connection: url: url: ""
```

JSON

```
{
  "input": { "sql-server": { "connection": { "url": { "url": "" } } } } }
```

Contents

- [Minimal example](#)
- [Connection](#)
- [Processing](#)
- [Query](#)
- [Reliability](#)
- [Trigger](#)
- [Schema](#)

Connection

Connection

Field	Type	Required	Description
<code>connection</code>	<code>Connection</code>	✓	Connection details for the target database. Allowed values: <code>url</code> , <code>parts</code>

Processing

Processing

Field	Type	Required	Description
<code>batch</code>	<code>Batch</code>		Optional batching semantics shared with other inputs.

Query

Query

Field	Type	Required	Description
<code>query</code>	<code>multiline-text (string)</code>		Inline SQL statement executed when <code>query-file</code> is not provided.
<code>query-file</code>	<code>path (string)</code>		Path to a SQL file executed when <code>query</code> is not provided. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>
<code>parameters</code>	<code>[Parameters[]] (#parameters-fields)</code>		Bindings that map event fields into parameter placeholders.

Reliability

Reliability

Field	Type	Required	Description
<code>retry</code>	<code>Retry</code>		Retry policy for transient failures.

Trigger

Trigger

Field	Type	Required	Description
<code>trigger</code>	<code>Trigger</code>		Optional schedule for polling queries. Allowed values: <code>message</code> , <code>cron</code> , <code>interval</code>

Schema

- [Connection Options](#)
- [Trigger - Cron - Window - Window Start Options](#)
- [Trigger - Interval - Window - Window Start Options](#)
- [Trigger Options](#)
- [Connection - Url Fields](#)
- [Connection - Parts - Tuning Fields](#)
- [Connection - Parts Fields](#)
- [Batch Fields](#)
- [Parameters Fields](#)
- [Retry Fields](#)
- [Trigger - Message Fields](#)

- [Trigger - Cron - Window - Window Start - Start Time Fields](#)
- [Trigger - Cron - Window Fields](#)
- [Trigger - Cron Fields](#)
- [Trigger - Interval - Window - Window Start - Start Time Fields](#)
- [Trigger - Interval - Window Fields](#)
- [Trigger - Interval Fields](#)
- [Connection - Parts - Parameters Table](#)
- [Trigger - Message - Filter Kind Options](#)
- [Trigger - Message - Filter Source Options](#)
- [Trigger - Message - Filter Type Options](#)

Connection Options

Option	Name	Type	Description
<code>url</code>	Url	object	
<code>parts</code>	Parts	object	

Trigger - Cron - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	object	
<code>tracked</code>	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	object	
<code>tracked</code>	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger Options

Option	Name	Type	Description
<code>message</code>	Message	object	
<code>cron</code>	Cron	object	
<code>interval</code>	Interval	object	

Connection - Url Fields

Field	Type	Required	Description
<code>url</code>	<code>url</code> (string)	<input checked="" type="checkbox"/>	Database connection URL (sqlx/ODBC compatible). Examples: <code>https://example.com/path</code>

<code>max-connections</code>	<code>number</code> (<code>integer</code>)		Maximum size of the async connection pool. Examples: <code>42</code> , <code>1.2e-10</code>
<code>min-connections</code>	<code>number</code> (<code>integer</code>)		Minimum number of connections retained in the pool. Examples: <code>42</code> , <code>1.2e-10</code>
<code>connect-timeout</code>	<code>string</code>		Optional connection timeout (humantime duration string).
<code>idle-timeout</code>	<code>string</code>		Optional idle timeout (humantime duration string).
<code>schema</code>	<code>string</code>		Optional schema override applied after connect.
<code>options</code>	<code>string[]</code>		Statements executed after connect (e.g. SET search_path TO ...).
<code>disable-tls-verification</code> ✓	<code>boolean</code> (<code>bool</code>)		Skip TLS verification (development only). Default: <code>false</code>

Connection - Parts - Tuning Fields

Field	Type	Required	Description
<code>max-connections</code>	<code>number</code> (<code>integer</code>)		Maximum size of the async connection pool. Examples: <code>42</code> , <code>1.2e-10</code>
<code>min-connections</code>	<code>number</code> (<code>integer</code>)		Minimum number of connections retained in the pool. Examples: <code>42</code> , <code>1.2e-10</code>
<code>connect-timeout</code>	<code>string</code>		Optional connection timeout (humantime duration string).
<code>idle-timeout</code>	<code>string</code>		Optional idle timeout (humantime duration string).
<code>schema</code>	<code>string</code>		Optional schema override applied after connect.
<code>options</code>	<code>string[]</code>		Statements executed after connect (e.g. SET search_path TO ...).
<code>disable-tls-verification</code> ✓	<code>boolean</code> (<code>bool</code>)		Skip TLS verification (development only). Default: <code>false</code>

Connection - Parts Fields

Field	Type	Required	Description
<code>tuning</code>	<code>Tuning</code>	✓	
<code>host</code>	<code>string</code>	✓	Hostname or IP address of the database server.
<code>port</code>	<code>number</code> (<code>integer</code>)		Optional TCP port (defaults to the backend default). Examples: <code>42</code> , <code>1.2e-10</code>
<code>database</code>	<code>string</code>		Optional database name (mapped to the URL path segment).
<code>username</code>	<code>string</code>		Optional username (mapped to the URL userinfo).
<code>password</code>	<code>string</code>		Optional password (mapped to the URL userinfo).
<code>parameters</code>	<code>map</code> (<code>string</code>)		Additional query parameters appended to the generated URL.

Batch Fields

Field	Type	Required	Description
<code>uuid-field</code>	<code>field (string)</code>		Field where generated uuid, the unique marker for the group, will be stored. Examples: <code>data_field</code>
<code>invocation-time-field</code>	<code>field (string)</code>		Field where invocation time will be stored. Examples: <code>data_field</code>
<code>completion-time-field</code>	<code>field (string)</code>		Field where completion (end of execution) time will be stored. Examples: <code>data_field</code>
<code>begin-marker-field</code>	<code>field (string)</code>		Field used to mark first event in the group. Examples: <code>data_field</code>
<code>end-marker-field</code>	<code>field (string)</code>		Field used to mark last event in the group. Examples: <code>data_field</code>
<code>line-count-field</code>	<code>field (string)</code>		Field used to store the line count of the batch. Examples: <code>data_field</code>
<code>line-num-field</code>	<code>field (string)</code>		Field used to store the line number of the batch. Examples: <code>data_field</code>

Parameters Fields

Field	Type	Required	Description
<code>name</code>	<code>string</code>	✓	
<code>field</code>	<code>string</code>	✓	
<code>default</code>	<code>multiline-text (string)</code>		

Retry Fields

Field	Type	Required	Description
<code>timeout</code>	<code>time-interval (string)</code>	✓	timeout (e.g. 500ms, 2s etc. - default is 30). Examples: <code>500ms</code> , <code>2h</code>
<code>retries</code>	<code>number (integer)</code>		number of retries. Examples: <code>42</code> , <code>1.2e-10</code>

Trigger - Message Fields

Field	Type	Required	Description
<code>limit</code> ✓	<code>number (integer)</code>		The number of times to run the input. Examples: <code>42</code> , <code>1.2e-10</code>

<code>filter-kind</code>	<code>Filter Kind</code>		Specifies whether the message originated from the "system" or by the "user". Allowed values: <code>system</code> , <code>user</code> , <code>runtime-artifact-fetch</code> , <code>runtime-artifact-fetch-error</code> , <code>runtime-artifact-clear</code> , <code>runtime-artifact-clear-ack</code> , <code>runtime-artifact-fetch-reply</code> , <code>runtime-artifact-update</code> , <code>runtime-artifact-update-ack</code>
<code>filter-source</code>	<code>[Filter Source[]]</code> (#trigger-message-filter-source-options)		Specifies what process generated the message. Was it a "server", "worker" or "job"? Allowed values: <code>job</code> , <code>worker</code> , <code>server</code>
<code>filter-worker</code>	<code>string</code>		Specifies what worker to select.
<code>filter-job</code>	<code>string</code>		Specifies the name of the job that the message came from.
<code>filter-type</code>	<code>[Filter Type[]]</code> (#trigger-message-filter-type-options)		Specifies that particular types of message ought to match. Allowed values: <code>worker-licensed</code> , <code>worker-unlicensed</code> , <code>variable</code> , <code>variable-deleted</code> , <code>begin-shutting-down-job</code> , <code>begin-shutting-down-server</code> , <code>begin-shutting-down-worker</code> , <code>broadcast-job-thread-state</code> , <code>broadcast-server-thread-state</code> , <code>broadcast-worker-thread-state</code> , ...
<code>filter-tag</code>	<code>string</code>		Specifies that messages matched ought to carry a tag with a particular value. This only matches against user-generated messages.

Trigger - Cron - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (<code>string</code>)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (<code>string</code>)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Cron - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (<code>string</code>)	✓	Window size.
<code>offset</code>	<code>duration</code> (<code>string</code>)		Window offset. Default: <code>0s</code>
<code>start</code>	<code>Window Start</code>		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Cron Fields

Field	Type	Required	Description
<code>cron</code>	<code>cron-expression</code> (string)	✓	The Cron pattern.
<code>immediate</code> ✓	<code>boolean</code> (bool)		Run as soon as invoked, instead of waiting for the specified cron interval. Default: <code>false</code>
<code>random-offset</code>	<code>duration</code> (string)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	<code>Window</code>		Optional window definition when the schedule should only read a bounded range.

Trigger - Interval - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (string)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (string)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (string)	✓	Window size.
<code>offset</code>	<code>duration</code> (string)		Window offset. Default: <code>0s</code>
<code>start</code>	<code>Window Start</code>		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Interval Fields

Field	Type	Required	Description
<code>duration</code>	<code>duration</code> (string)	✓	Duration to wait between events.
<code>random-offset</code>	<code>duration</code> (string)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	<code>Window</code>		Optional window definition when the interval should only cover a bounded range.

Connection - Parts - Parameters Table

Parameter	Value
<code>name</code>	<code>value</code>

Value format: `templated-text`.

Trigger - Message - Filter Kind Options

Value	Name	Description
<code>system</code>	system	System
<code>user</code>	user	User
<code>runtime-artifact-fetch</code>	runtime-artifact-fetch	Runtime Artifact Fetch
<code>runtime-artifact-fetch-error</code>	runtime-artifact-fetch-error	Runtime Artifact Fetch Error
<code>runtime-artifact-clear</code>	runtime-artifact-clear	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch-reply</code>	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
<code>runtime-artifact-update</code>	runtime-artifact-update	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	runtime-artifact-update-ack	Runtime Artifact Update Ack

Trigger - Message - Filter Source Options

Value	Name	Description
<code>job</code>	job	Job
<code>worker</code>	worker	Worker
<code>server</code>	server	Server

Trigger - Message - Filter Type Options

Value	Name	Description
<code>worker-licensed</code>	worker-licensed	Worker Licensed
<code>worker-unlicensed</code>	worker-unlicensed	Worker Unlicensed
<code>variable</code>	variable	Variable
<code>variable-deleted</code>	variable-deleted	Variable Deleted
<code>begin-shutting-down-job</code>	begin-shutting-down-job	Begin Shutting Down Job
<code>begin-shutting-down-server</code>	begin-shutting-down-server	Begin Shutting Down Server
<code>begin-shutting-down-worker</code>	begin-shutting-down-worker	Begin Shutting Down Worker
<code>broadcast-job-thread-state</code>	broadcast-job-thread-state	Broadcast Job Thread State

<code>broadcast-server-thread-state</code>	<code>broadcast-server-thread-state</code>	Broadcast Server Thread State
<code>broadcast-worker-thread-state</code>	<code>broadcast-worker-thread-state</code>	Broadcast Worker Thread State
<code>check-job-report-time</code>	<code>check-job-report-time</code>	Check Job Report Time
<code>check-worker-report-time</code>	<code>check-worker-report-time</code>	Check Worker Report Time
<code>de-register-job-thread-dependency</code>	<code>de-register-job-thread-dependency</code>	De Register Job Thread Dependency
<code>de-register-server-thread-dependency</code>	<code>de-register-server-thread-dependency</code>	De Register Server Thread Dependency
<code>de-register-worker-thread-dependency</code>	<code>de-register-worker-thread-dependency</code>	De Register Worker Thread Dependency
<code>deployed-job-active</code>	<code>deployed-job-active</code>	Deployed Job Active
<code>deployed-job-removed</code>	<code>deployed-job-removed</code>	Deployed Job Removed
<code>deployed-job-should-be-running</code>	<code>deployed-job-should-be-running</code>	Deployed Job Should Be Running
<code>deployment-phase</code>	<code>deployment-phase</code>	Deployment Phase
<code>heart-beat</code>	<code>heart-beat</code>	Heart Beat
<code>initialise-internal-state</code>	<code>initialise-internal-state</code>	Initialise Internal State
<code>initialise-job-states</code>	<code>initialise-job-states</code>	Initialise Job States
<code>job-batch-end</code>	<code>job-batch-end</code>	Job Batch End
<code>job-backlog-update</code>	<code>job-backlog-update</code>	Job Backlog Update
<code>job-checkpoint-update</code>	<code>job-checkpoint-update</code>	Job Checkpoint Update
<code>job-deploy-ready</code>	<code>job-deploy-ready</code>	Job Deploy Ready
<code>job-deployed</code>	<code>job-deployed</code>	Job Deployed
<code>job-document-end</code>	<code>job-document-end</code>	Job Document End
<code>job-document-start</code>	<code>job-document-start</code>	Job Document Start
<code>job-errors</code>	<code>job-errors</code>	Job Errors
<code>job-execution-anomaly</code>	<code>job-execution-anomaly</code>	Job Execution Anomaly
<code>job-execution-status</code>	<code>job-execution-status</code>	Job Execution Status
<code>job-emit-custom</code>	<code>job-emit-custom</code>	Job Emit Custom
<code>job-finished</code>	<code>job-finished</code>	Job Finished
<code>job-idle</code>	<code>job-idle</code>	Job Idle
<code>job-initiated</code>	<code>job-initiated</code>	Job Initiated
<code>job-is-processing</code>	<code>job-is-processing</code>	Job Is Processing
<code>job-logs</code>	<code>job-logs</code>	Job Logs

<code>job-metrics</code>	job-metrics	Job Metrics
<code>job-notifications</code>	job-notifications	Job Notifications
<code>job-removing</code>	job-removing	Job Removing
<code>job-removed</code>	job-removed	Job Removed
<code>job-remove-failed</code>	job-remove-failed	Job Remove Failed
<code>job-remove-ready</code>	job-remove-ready	Job Remove Ready
<code>job-replaced</code>	job-replaced	Job Replaced
<code>job-required</code>	job-required	Job Required
<code>job-run-ended</code>	job-run-ended	Job Run Ended
<code>job-runtime-error</code>	job-runtime-error	Job Runtime Error
<code>job-runtime-settings</code>	job-runtime-settings	Job Runtime Settings
<code>job-run-started</code>	job-run-started	Job Run Started
<code>job-running-docker</code>	job-running-docker	Job Running Docker
<code>job-running-script</code>	job-running-script	Job Running Script
<code>job-running-subprocess</code>	job-running-subprocess	Job Running Subprocess
<code>job-running-system-d</code>	job-running-system-d	Job Running System D
<code>job-settings</code>	job-settings	Job Settings
<code>job-step-statistics</code>	job-step-statistics	Job Step Statistics
<code>job-started</code>	job-started	Job Started
<code>job-staged</code>	job-staged	Job Staged
<code>job-state-transition</code>	job-state-transition	Job State Transition
<code>job-shutting-down</code>	job-shutting-down	Job Shutting Down
<code>job-stopping</code>	job-stopping	Job Stopping
<code>job-stopped</code>	job-stopped	Job Stopped
<code>job-timed-out</code>	job-timed-out	Job Timed Out
<code>job-suspicious-silence</code>	job-suspicious-silence	Job Suspicious Silence
<code>job-thread-state</code>	job-thread-state	Job Thread State
<code>job-trace</code>	job-trace	Job Trace
<code>job-trace-requires-samples</code>	job-trace-requires-samples	Job Trace Requires Samples
<code>job-updated</code>	job-updated	Job Updated
<code>job-worker-comms-error</code>	job-worker-comms-error	Job Worker Comms Error
<code>job-unstaged</code>	job-unstaged	Job Unstaged

license-state-changed	license-state-changed	License State Changed
license-validation-failed	license-validation-failed	License Validation Failed
license-validation-ok	license-validation-ok	License Validation Ok
license-volume-violation	license-volume-violation	License Volume Violation
new-license	new-license	New License
override-job-coordinated-shutdown	override-job-coordinated-shutdown	Override Job Coordinated Shutdown
override-server-coordinated-shutdown	override-server-coordinated-shutdown	Override Server Coordinated Shutdown
override-worker-coordinated-shutdown	override-worker-coordinated-shutdown	Override Worker Coordinated Shutdown
register-job-thread-dependency	register-job-thread-dependency	Register Job Thread Dependency
register-server-thread-dependency	register-server-thread-dependency	Register Server Thread Dependency
register-worker-thread-dependency	register-worker-thread-dependency	Register Worker Thread Dependency
run-job-failure	run-job-failure	Run Job Failure
server-logs	server-logs	Server Logs
server-metrics-batch	server-metrics-batch	Server Metrics Batch
server-started	server-started	Server Started
server-starting	server-starting	Server Starting
server-stopping	server-stopping	Server Stopping
server-thread-state	server-thread-state	Server Thread State
server-worker-comms-error	server-worker-comms-error	Server Worker Comms Error
shutdown-jobs	shutdown-jobs	Shutdown Jobs
shutdown-worker	shutdown-worker	Shutdown Worker
system-shutdown	system-shutdown	System Shutdown
update-upstream-sync-for-job	update-upstream-sync-for-job	Update Upstream Sync For Job
update-upstream-sync-for-worker	update-upstream-sync-for-worker	Update Upstream Sync For Worker
update-variable	update-variable	Update Variable
user-alert	user-alert	User Alert
user-generated	user-generated	User Generated
user-notification	user-notification	User Notification
worker-command-for-job	worker-command-for-job	Worker Command For Job
worker-auth-lease-ack	worker-auth-lease-ack	Worker Auth Lease Ack

<code>worker-connected</code>	worker-connected	Worker Connected
<code>worker-created</code>	worker-created	Worker Created
<code>worker-debug-heart-beat</code>	worker-debug-heart-beat	Worker Debug Heart Beat
<code>worker-error</code>	worker-error	Worker Error
<code>worker-first-seen</code>	worker-first-seen	Worker First Seen
<code>worker-heart-beat</code>	worker-heart-beat	Worker Heart Beat
<code>worker-logs</code>	worker-logs	Worker Logs
<code>worker-metrics-batch</code>	worker-metrics-batch	Worker Metrics Batch
<code>worker-offline</code>	worker-offline	Worker Offline
<code>worker-requests-auth-lease</code>	worker-requests-auth-lease	Worker Requests Auth Lease
<code>worker-server-comms-error</code>	worker-server-comms-error	Worker Server Comms Error
<code>worker-settings</code>	worker-settings	Worker Settings
<code>worker-shutdown</code>	worker-shutdown	Worker Shutdown
<code>worker-shutting-down</code>	worker-shutting-down	Worker Shutting Down
<code>worker-started</code>	worker-started	Worker Started
<code>worker-state-uuid</code>	worker-state-uuid	Worker State Uuid
<code>worker-stopping</code>	worker-stopping	Worker Stopping
<code>worker-suspicious-silence</code>	worker-suspicious-silence	Worker Suspicious Silence
<code>worker-system-information</code>	worker-system-information	Worker System Information
<code>worker-thread-state</code>	worker-thread-state	Worker Thread State
<code>worker-updated</code>	worker-updated	Worker Updated
<code>worker-modified</code>	worker-modified	Worker Modified
<code>worker-removed</code>	worker-removed	Worker Removed
<code>context-changed</code>	context-changed	Context Changed
<code>rerender-deployment</code>	rerender-deployment	Rerender Deployment
<code>job-killed</code>	job-killed	Job Killed
<code>message-serviced</code>	message-serviced	Message Serviced
<code>failed-to-service-message</code>	failed-to-service-message	Failed To Service Message
<code>worker-wants-initial-settings</code>	worker-wants-initial-settings	Worker Wants Initial Settings
<code>worker-wants-initial-settings-reply</code>	worker-wants-initial-settings-reply	Worker Wants Initial Settings Reply
<code>worker-wants-deployed-jobs</code>	worker-wants-deployed-jobs	Worker Wants Deployed Jobs

<code>worker-wants-deployed-jobs-reply</code>	<code>worker-wants-deployed-jobs-reply</code>	Worker Wants Deployed Jobs Reply
<code>worker-wants-job-configuration</code>	<code>worker-wants-job-configuration</code>	Worker Wants Job Configuration
<code>worker-wants-job-configuration-reply</code>	<code>worker-wants-job-configuration-reply</code>	Worker Wants Job Configuration Reply
<code>job-wants-dslir-key</code>	<code>job-wants-dslir-key</code>	Job Wants Dslir Key
<code>job-wants-dslir-key-reply</code>	<code>job-wants-dslir-key-reply</code>	Job Wants Dslir Key Reply
<code>worker-wants-dslir-key</code>	<code>worker-wants-dslir-key</code>	Worker Wants Dslir Key
<code>worker-wants-dslir-key-reply</code>	<code>worker-wants-dslir-key-reply</code>	Worker Wants Dslir Key Reply
<code>job-wants-variables</code>	<code>job-wants-variables</code>	Job Wants Variables
<code>job-wants-variables-reply</code>	<code>job-wants-variables-reply</code>	Job Wants Variables Reply
<code>job-wants-credentials</code>	<code>job-wants-credentials</code>	Job Wants Credentials
<code>job-wants-credentials-reply</code>	<code>job-wants-credentials-reply</code>	Job Wants Credentials Reply
<code>job-wants-credentials-error</code>	<code>job-wants-credentials-error</code>	Job Wants Credentials Error
<code>job-wants-secret-variables-reply</code>	<code>job-wants-secret-variables-reply</code>	Job Wants Secret Variables Reply
<code>job-credentials-invalidated</code>	<code>job-credentials-invalidated</code>	Job Credentials Invalidated
<code>aggregator-health</code>	<code>aggregator-health</code>	Aggregator Health
<code>worker-aggregator-health</code>	<code>worker-aggregator-health</code>	Worker Aggregator Health
<code>worker-verification-token</code>	<code>worker-verification-token</code>	Worker Verification Token
<code>worker-requests-verification-token</code>	<code>worker-requests-verification-token</code>	Worker Requests Verification Token
<code>runtime-artifact-update</code>	<code>runtime-artifact-update</code>	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	<code>runtime-artifact-update-ack</code>	Runtime Artifact Update Ack
<code>runtime-artifact-clear</code>	<code>runtime-artifact-clear</code>	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	<code>runtime-artifact-clear-ack</code>	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch</code>	<code>runtime-artifact-fetch</code>	Runtime Artifact Fetch
<code>runtime-artifact-fetch-reply</code>	<code>runtime-artifact-fetch-reply</code>	Runtime Artifact Fetch Reply
<code>runtime-artifact-fetch-error</code>	<code>runtime-artifact-fetch-error</code>	Runtime Artifact Fetch Error

Trigger

Reference for the Trigger component in LyftData's DSL

Source: <reference/dsl/inputs/trigger.md>

Trigger (`trigger`)

Managed trigger input that emits scheduler messages with optional Worker KV leadership.

Scheduler json

Minimal example

```
input:
  trigger: {}
```

JSON

```
{
  "input": { "trigger": {} } }
```

Contents

- [Minimal example](#)
- [Leadership](#)
- [Message](#)
- [Payload](#)
- [Trigger](#)
- [Schema](#)

Leadership

Leadership

Field	Type	Required	Description
<code>leader</code>	<code>Leader</code>		Worker KV leadership settings to ensure a single emitter.

Message

Message

Field	Type	Required	Description
<code>message-tag</code>	<code>string</code>		Optional message tag override (<code>trigger.<name></code> when omitted).

Payload

Payload

Field	Type	Required	Description
<code>name</code>	<code>string</code>		Logical name stamped into the emitted payload (<code>payload.trigger</code>).
<code>payload</code>	<code>map (object)</code>		Structured payload merged into the emitted message body.

Trigger

Trigger

Field	Type	Required	Description
<code>trigger</code>	<code>Trigger</code>		When to emit trigger events (interval/cron/message watcher). Allowed values: <code>message</code> , <code>cron</code> , <code>interval</code>

Schema

- [Trigger - Cron - Window - Window Start Options](#)
- [Trigger - Interval - Window - Window Start Options](#)
- [Trigger Options](#)
- [Leader Fields](#)
- [Trigger - Message Fields](#)
- [Trigger - Cron - Window - Window Start - Start Time Fields](#)
- [Trigger - Cron - Window Fields](#)
- [Trigger - Cron Fields](#)
- [Trigger - Interval - Window - Window Start - Start Time Fields](#)
- [Trigger - Interval - Window Fields](#)
- [Trigger - Interval Fields](#)
- [Trigger - Message - Filter Kind Options](#)
- [Trigger - Message - Filter Source Options](#)
- [Trigger - Message - Filter Type Options](#)

Trigger - Cron - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	<code>Start Time</code>	<code>object</code>	
<code>tracked</code>	<code>Tracked</code>	<code>string</code>	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	object	
<code>tracked</code>	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger Options

Option	Name	Type	Description
<code>message</code>	Message	object	
<code>cron</code>	Cron	object	
<code>interval</code>	Interval	object	

Leader Fields

Field	Type	Required	Description
<code>namespace</code>	string	<input checked="" type="checkbox"/>	Worker KV namespace (<code>tenant:namespace</code>) that stores the leadership lock.
<code>lock-key</code>	string		Lock key inside the namespace. Defaults to <code>trigger.<name></code> .
<code>lock-ttl</code>	duration (string)		TTL applied to the leadership lock (humantime duration).

Trigger - Message Fields

Field	Type	Required	Description
<code>limit</code> ✓	number (integer)		The number of times to run the input. Examples: <code>42</code> , <code>1.2e-10</code>
<code>filter-kind</code>	Filter Kind		Specifies whether the message originated from the "system" or by the "user". Allowed values: <code>system</code> , <code>user</code> , <code>runtime-artifact-fetch</code> , <code>runtime-artifact-fetch-error</code> , <code>runtime-artifact-clear</code> , <code>runtime-artifact-clear-ack</code> , <code>runtime-artifact-fetch-reply</code> , <code>runtime-artifact-update</code> , <code>runtime-artifact-update-ack</code>
<code>filter-source</code>	[Filter Source[]] (#trigger-message-filter-source-options)		Specifies what process generated the message. Was it a "server", "worker" or "job"? Allowed values: <code>job</code> , <code>worker</code> , <code>server</code>
<code>filter-worker</code>	string		Specifies what worker to select.
<code>filter-job</code>	string		Specifies the name of the job that the message came from.
<code>filter-type</code>	[Filter Type[]] (#trigger-message-filter-type-options)		Specifies that particular types of message ought to match. Allowed values: <code>worker-licensed</code> , <code>worker-unlicensed</code> , <code>variable</code> , <code>variable-deleted</code> , <code>begin-shutting-down-job</code> , <code>begin-</code>

			shutting-down-server , begin-shutting-down-worker , broadcast-job-thread-state , broadcast-server-thread-state , broadcast-worker-thread-state , ...
filter-tag	string		Specifies that messages matched ought to carry a tag with a particular value. This only matches against user-generated messages.

Trigger - Cron - Window - Window Start - Start Time Fields

Field	Type	Required	Description
start-time	time-format (string)	<input checked="" type="checkbox"/>	Allows the windowing to start at a specified time. Hint: %Y-%m-%d %H:%M:%S%.3f %z
highwatermark-file	path (string)	<input checked="" type="checkbox"/>	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: /path/to/file , c:\users\joe\data\file.txt

Trigger - Cron - Window Fields

Field	Type	Required	Description
size	duration (string)	<input checked="" type="checkbox"/>	Window size.
offset	duration (string)		Window offset. Default: 0s
start	Window Start		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: start-time , tracked

Trigger - Cron Fields

Field	Type	Required	Description
cron	cron-expression (string)	<input checked="" type="checkbox"/>	The Cron pattern.
immediate ✓	boolean (bool)		Run as soon as invoked, instead of waiting for the specified cron interval. Default: false
random-offset	duration (string)		Sets a random offset to the schedule, then sticks to it. Default: 0s
window	Window		Optional window definition when the schedule should only read a bounded range.

Trigger - Interval - Window - Window Start - Start Time Fields

Field	Type	Required	Description
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<code>start-time</code>	<code>time-format</code> (string)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (string)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (string)	✓	Window size.
<code>offset</code>	<code>duration</code> (string)		Window offset. Default: <code>0s</code>
<code>start</code>	Window Start		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Interval Fields

Field	Type	Required	Description
<code>duration</code>	<code>duration</code> (string)	✓	Duration to wait between events.
<code>random-offset</code>	<code>duration</code> (string)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	Window		Optional window definition when the interval should only cover a bounded range.

Trigger - Message - Filter Kind Options

Value	Name	Description
<code>system</code>	system	System
<code>user</code>	user	User
<code>runtime-artifact-fetch</code>	runtime-artifact-fetch	Runtime Artifact Fetch
<code>runtime-artifact-fetch-error</code>	runtime-artifact-fetch-error	Runtime Artifact Fetch Error
<code>runtime-artifact-clear</code>	runtime-artifact-clear	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch-reply</code>	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
<code>runtime-artifact-update</code>	runtime-artifact-update	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	runtime-artifact-update-ack	Runtime Artifact Update Ack

Trigger - Message - Filter Source Options

Value	Name	Description
job	job	Job
worker	worker	Worker
server	server	Server

Trigger - Message - Filter Type Options

Value	Name	Description
worker-licensed	worker-licensed	Worker Licensed
worker-unlicensed	worker-unlicensed	Worker Unlicensed
variable	variable	Variable
variable-deleted	variable-deleted	Variable Deleted
begin-shutting-down-job	begin-shutting-down-job	Begin Shutting Down Job
begin-shutting-down-server	begin-shutting-down-server	Begin Shutting Down Server
begin-shutting-down-worker	begin-shutting-down-worker	Begin Shutting Down Worker
broadcast-job-thread-state	broadcast-job-thread-state	Broadcast Job Thread State
broadcast-server-thread-state	broadcast-server-thread-state	Broadcast Server Thread State
broadcast-worker-thread-state	broadcast-worker-thread-state	Broadcast Worker Thread State
check-job-report-time	check-job-report-time	Check Job Report Time
check-worker-report-time	check-worker-report-time	Check Worker Report Time
de-register-job-thread-dependency	de-register-job-thread-dependency	De Register Job Thread Dependency
de-register-server-thread-dependency	de-register-server-thread-dependency	De Register Server Thread Dependency
de-register-worker-thread-dependency	de-register-worker-thread-dependency	De Register Worker Thread Dependency
deployed-job-active	deployed-job-active	Deployed Job Active
deployed-job-removed	deployed-job-removed	Deployed Job Removed
deployed-job-should-be-running	deployed-job-should-be-running	Deployed Job Should Be Running
deployment-phase	deployment-phase	Deployment Phase
heart-beat	heart-beat	Heart Beat
initialise-internal-state	initialise-internal-state	Initialise Internal State
initialise-job-states	initialise-job-states	Initialise Job States

<code>job-batch-end</code>	job-batch-end	Job Batch End
<code>job-backlog-update</code>	job-backlog-update	Job Backlog Update
<code>job-checkpoint-update</code>	job-checkpoint-update	Job Checkpoint Update
<code>job-deploy-ready</code>	job-deploy-ready	Job Deploy Ready
<code>job-deployed</code>	job-deployed	Job Deployed
<code>job-document-end</code>	job-document-end	Job Document End
<code>job-document-start</code>	job-document-start	Job Document Start
<code>job-errors</code>	job-errors	Job Errors
<code>job-execution-anomaly</code>	job-execution-anomaly	Job Execution Anomaly
<code>job-execution-status</code>	job-execution-status	Job Execution Status
<code>job-emit-custom</code>	job-emit-custom	Job Emit Custom
<code>job-finished</code>	job-finished	Job Finished
<code>job-idle</code>	job-idle	Job Idle
<code>job-initiated</code>	job-initiated	Job Initiated
<code>job-is-processing</code>	job-is-processing	Job Is Processing
<code>job-logs</code>	job-logs	Job Logs
<code>job-metrics</code>	job-metrics	Job Metrics
<code>job-notifications</code>	job-notifications	Job Notifications
<code>job-removing</code>	job-removing	Job Removing
<code>job-removed</code>	job-removed	Job Removed
<code>job-remove-failed</code>	job-remove-failed	Job Remove Failed
<code>job-remove-ready</code>	job-remove-ready	Job Remove Ready
<code>job-replaced</code>	job-replaced	Job Replaced
<code>job-required</code>	job-required	Job Required
<code>job-run-ended</code>	job-run-ended	Job Run Ended
<code>job-runtime-error</code>	job-runtime-error	Job Runtime Error
<code>job-runtime-settings</code>	job-runtime-settings	Job Runtime Settings
<code>job-run-started</code>	job-run-started	Job Run Started
<code>job-running-docker</code>	job-running-docker	Job Running Docker
<code>job-running-script</code>	job-running-script	Job Running Script
<code>job-running-subprocess</code>	job-running-subprocess	Job Running Subprocess
<code>job-running-system-d</code>	job-running-system-d	Job Running System D

job-settings	job-settings	Job Settings
job-step-statistics	job-step-statistics	Job Step Statistics
job-started	job-started	Job Started
job-staged	job-staged	Job Staged
job-state-transition	job-state-transition	Job State Transition
job-shutting-down	job-shutting-down	Job Shutting Down
job-stopping	job-stopping	Job Stopping
job-stopped	job-stopped	Job Stopped
job-timed-out	job-timed-out	Job Timed Out
job-suspicious-silence	job-suspicious-silence	Job Suspicious Silence
job-thread-state	job-thread-state	Job Thread State
job-trace	job-trace	Job Trace
job-trace-requires-samples	job-trace-requires-samples	Job Trace Requires Samples
job-updated	job-updated	Job Updated
job-worker-comms-error	job-worker-comms-error	Job Worker Comms Error
job-unstaged	job-unstaged	Job Unstaged
license-state-changed	license-state-changed	License State Changed
license-validation-failed	license-validation-failed	License Validation Failed
license-validation-ok	license-validation-ok	License Validation Ok
license-volume-violation	license-volume-violation	License Volume Violation
new-license	new-license	New License
override-job-coordinated-shutdown	override-job-coordinated-shutdown	Override Job Coordinated Shutdown
override-server-coordinated-shutdown	override-server-coordinated-shutdown	Override Server Coordinated Shutdown
override-worker-coordinated-shutdown	override-worker-coordinated-shutdown	Override Worker Coordinated Shutdown
register-job-thread-dependency	register-job-thread-dependency	Register Job Thread Dependency
register-server-thread-dependency	register-server-thread-dependency	Register Server Thread Dependency
register-worker-thread-dependency	register-worker-thread-dependency	Register Worker Thread Dependency
run-job-failure	run-job-failure	Run Job Failure
server-logs	server-logs	Server Logs
server-metrics-batch	server-metrics-batch	Server Metrics Batch

server-started	server-started	Server Started
server-starting	server-starting	Server Starting
server-stopping	server-stopping	Server Stopping
server-thread-state	server-thread-state	Server Thread State
server-worker-comms-error	server-worker-comms-error	Server Worker Comms Error
shutdown-jobs	shutdown-jobs	Shutdown Jobs
shutdown-worker	shutdown-worker	Shutdown Worker
system-shutdown	system-shutdown	System Shutdown
update-upstream-sync-for-job	update-upstream-sync-for-job	Update Upstream Sync For Job
update-upstream-sync-for-worker	update-upstream-sync-for-worker	Update Upstream Sync For Worker
update-variable	update-variable	Update Variable
user-alert	user-alert	User Alert
user-generated	user-generated	User Generated
user-notification	user-notification	User Notification
worker-command-for-job	worker-command-for-job	Worker Command For Job
worker-auth-lease-ack	worker-auth-lease-ack	Worker Auth Lease Ack
worker-connected	worker-connected	Worker Connected
worker-created	worker-created	Worker Created
worker-debug-heart-beat	worker-debug-heart-beat	Worker Debug Heart Beat
worker-error	worker-error	Worker Error
worker-first-seen	worker-first-seen	Worker First Seen
worker-heart-beat	worker-heart-beat	Worker Heart Beat
worker-logs	worker-logs	Worker Logs
worker-metrics-batch	worker-metrics-batch	Worker Metrics Batch
worker-offline	worker-offline	Worker Offline
worker-requests-auth-lease	worker-requests-auth-lease	Worker Requests Auth Lease
worker-server-comms-error	worker-server-comms-error	Worker Server Comms Error
worker-settings	worker-settings	Worker Settings
worker-shutdown	worker-shutdown	Worker Shutdown
worker-shutting-down	worker-shutting-down	Worker Shutting Down
worker-started	worker-started	Worker Started
worker-state-uuid	worker-state-uuid	Worker State Uuid

worker-stopping	worker-stopping	Worker Stopping
worker-suspicious-silence	worker-suspicious-silence	Worker Suspicious Silence
worker-system-information	worker-system-information	Worker System Information
worker-thread-state	worker-thread-state	Worker Thread State
worker-updated	worker-updated	Worker Updated
worker-modified	worker-modified	Worker Modified
worker-removed	worker-removed	Worker Removed
context-changed	context-changed	Context Changed
rerender-deployment	rerender-deployment	Rerender Deployment
job-killed	job-killed	Job Killed
message-serviced	message-serviced	Message Serviced
failed-to-service-message	failed-to-service-message	Failed To Service Message
worker-wants-initial-settings	worker-wants-initial-settings	Worker Wants Initial Settings
worker-wants-initial-settings-reply	worker-wants-initial-settings-reply	Worker Wants Initial Settings Reply
worker-wants-deployed-jobs	worker-wants-deployed-jobs	Worker Wants Deployed Jobs
worker-wants-deployed-jobs-reply	worker-wants-deployed-jobs-reply	Worker Wants Deployed Jobs Reply
worker-wants-job-configuration	worker-wants-job-configuration	Worker Wants Job Configuration
worker-wants-job-configuration-reply	worker-wants-job-configuration-reply	Worker Wants Job Configuration Reply
job-wants-dslir-key	job-wants-dslir-key	Job Wants Dslir Key
job-wants-dslir-key-reply	job-wants-dslir-key-reply	Job Wants Dslir Key Reply
worker-wants-dslir-key	worker-wants-dslir-key	Worker Wants Dslir Key
worker-wants-dslir-key-reply	worker-wants-dslir-key-reply	Worker Wants Dslir Key Reply
job-wants-variables	job-wants-variables	Job Wants Variables
job-wants-variables-reply	job-wants-variables-reply	Job Wants Variables Reply
job-wants-credentials	job-wants-credentials	Job Wants Credentials
job-wants-credentials-reply	job-wants-credentials-reply	Job Wants Credentials Reply
job-wants-credentials-error	job-wants-credentials-error	Job Wants Credentials Error
job-wants-secret-variables-reply	job-wants-secret-variables-reply	Job Wants Secret Variables Reply
job-credentials-invalidated	job-credentials-invalidated	Job Credentials Invalidated
aggregator-health	aggregator-health	Aggregator Health

<code>worker-aggregator-health</code>	worker-aggregator-health	Worker Aggregator Health
<code>worker-verification-token</code>	worker-verification-token	Worker Verification Token
<code>worker-requests-verification-token</code>	worker-requests-verification-token	Worker Requests Verification Token
<code>runtime-artifact-update</code>	runtime-artifact-update	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	runtime-artifact-update-ack	Runtime Artifact Update Ack
<code>runtime-artifact-clear</code>	runtime-artifact-clear	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch</code>	runtime-artifact-fetch	Runtime Artifact Fetch
<code>runtime-artifact-fetch-reply</code>	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
<code>runtime-artifact-fetch-error</code>	runtime-artifact-fetch-error	Runtime Artifact Fetch Error

Web Dav Store

Reference for the Web Dav Store component in LyftData's DSL

Source: <reference/dsl/inputs/web-dav-store.md>

Web Dav Store (`web-dav-store`)

Read from a WebDAV-compatible object store.

Block Store WebDAV Enterprise edition binary json raw

Minimal example

```
input:
web-dav-store: base-url: ~ object-names: []
```

JSON

```
{
  "input": { "web-dav-store": { "base-url": null, "object-names": [] } } }
```

Contents

- [Minimal example](#)
- [Fields](#)
- [Advanced](#)
- [Behavior](#)
- [Filtering](#)
- [Location](#)
- [Object Properties](#)
- [Processing](#)
- [Reliability](#)
- [Trigger](#)
- [Schema](#)

Fields

Field	Type	Required	Description
<code>fingerprinting-db-path</code>	<code>path</code> (string)		Specify a custom path for the fingerprinting database. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Advanced

Advanced

Field	Type	Required	Description
<code>config</code>	<code>map</code> (<code>string</code>)		Additional configuration passed directly to the HTTP client (see <code>object_store</code> http configs).

Behavior

Behavior

Field	Type	Required	Description
<code>mode</code>	<code>Block Input Mode</code>		Input behavior: <code>list-and-download</code> , <code>list</code> , or <code>download</code> . Allowed values: <code>list-and-download-objects</code> , <code>list-objects</code> , <code>download-objects</code>
<code>ignore-linebreaks</code> ✓	<code>boolean</code> (<code>bool</code>)		Treat the entire object as a single event. Default: <code>false</code>
<code>payload-mode</code> ✓	<code>Payload Mode</code>		Select how payloads should be interpreted (<code>auto</code> , <code>json</code> , <code>raw</code> , <code>binary</code>). Allowed values: <code>auto</code> , <code>json</code> , <code>raw</code> , <code>binary</code>
<code>timestamp-mode</code>	<code>Timestamp Strategy</code>		Derive a timestamp for this object for filtering purposes based on the selected strategy. Allowed values: <code>none</code> , <code>last-modified</code> , <code>object-name-pattern</code>

Filtering

Filtering

Field	Type	Required	Description
<code>maximum-age</code>	<code>Maximum Age</code>		Ignore objects older than the provided duration (e.g., <code>5m</code> , <code>1h30m</code>). Leave empty to process all visible objects.
<code>include-regex</code>	<code>regex[]</code> (<code>string</code>)		Use regex filters to restrict which objects are listed or downloaded. Examples: <code>\d+[A-Z]*</code>
<code>exclude-regex</code>	<code>regex[]</code> (<code>string</code>)		Use regex filters to exclude objects from being processed. Examples: <code>\d+[A-Z]*</code>

Location

Location

Field	Type	Required	Description
<code>base-url</code>	<code>string</code>	✓	Base URL for the WebDAV endpoint (e.g., <code>https://host/webdav</code>).

<code>bucket-name</code>	<code>string</code>		Optional bucket or root path that will be prepended to object names.
<code>object-names</code>	<code>string[]</code>	✓	Names for objects. If using a list mode these are treated as prefixes.

Object Properties

Object Properties

Field	Type	Required	Description
<code>object-name-field</code>	<code>field</code> (<code>string</code>)		The field that an object name from an operation should be stored in. Examples: <code>data_field</code>
<code>creation-time-field</code>	<code>field</code> (<code>string</code>)		The field that the object creation time should be stored in. Examples: <code>data_field</code>
<code>last-modified-field</code>	<code>field</code> (<code>string</code>)		The field that the object last modified time should be stored in. Examples: <code>data_field</code>
<code>content-length-field</code>	<code>field</code> (<code>string</code>)		The field that the object content length information should be stored in. Examples: <code>data_field</code>
<code>content-type-field</code>	<code>field</code> (<code>string</code>)		The field that the object content type information should be stored in. Examples: <code>data_field</code>
<code>etag-field</code>	<code>field</code> (<code>string</code>)		The field that the object ETag should be stored in. Examples: <code>data_field</code>
<code>data-field</code>	<code>field</code> (<code>string</code>)		A field that the object data should be nested in. Examples: <code>data_field</code>

Processing

Processing

Field	Type	Required	Description
<code>preprocessors</code>	[<code>Input Preprocessor[]</code>] (#input-preprocessor-options)		Preprocessors (process downloaded data before making it available to the job) these processors will be run in the order they are specified. Allowed values: <code>extension</code> , <code>gzip</code> , <code>parquet</code> , <code>base64</code>

Reliability

Reliability

Field	Type	Required	Description
<code>fingerprinting</code> ✓	<code>boolean</code> (<code>bool</code>)		Enable object fingerprinting to download each object only once, even across restarts. Default: <code>false</code>

<code>maximum-fingerprint-age</code>	<code>duration</code> (<code>string</code>)		How long to retain stored fingerprints before they are eligible for cleanup. Default: <code>30 days</code>
<code>retry</code>	<code>Retry</code>		Retry configuration for WebDAV operations.

Trigger

Trigger

Field	Type	Required	Description
<code>trigger</code>	<code>Trigger</code>		Run on the provided cadence; if omitted, this input runs exactly once. Allowed values: <code>message</code> , <code>cron</code> , <code>interval</code>

Schema

- [Timestamp Strategy Options](#)
- [Trigger - Cron - Window - Window Start Options](#)
- [Trigger - Interval - Window - Window Start Options](#)
- [Trigger Options](#)
- [Maximum Age Fields](#)
- [Retry Fields](#)
- [Trigger - Message Fields](#)
- [Trigger - Cron - Window - Window Start - Start Time Fields](#)
- [Trigger - Cron - Window Fields](#)
- [Trigger - Cron Fields](#)
- [Trigger - Interval - Window - Window Start - Start Time Fields](#)
- [Trigger - Interval - Window Fields](#)
- [Trigger - Interval Fields](#)
- [Config Table](#)
- [Block Input Mode Options](#)
- [Payload Mode Options](#)
- [Input Preprocessor Options](#)
- [Trigger - Message - Filter Kind Options](#)
- [Trigger - Message - Filter Source Options](#)
- [Trigger - Message - Filter Type Options](#)

Timestamp Strategy Options

Option	Name	Type	Description
<code>none</code>	None	<code>map</code>	The default mode, do not filter based on timestamps.
<code>last-modified</code>	Last Modified	<code>map</code>	Filter object on the last-modified timestamp reported by the service.
<code>object-name-pattern</code>	Object Name Pattern	<code>string</code>	Filter blobs on the timestamp derived from the object name for example: <code>relevant-name-pattern: =(?P[\\d]{4,4}) - (?P<m>[\\d]{2,2}) - (?P<d>[\\d]{2,2}) / .</code>

Trigger - Cron - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	object	
<code>tracked</code>	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	object	
<code>tracked</code>	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger Options

Option	Name	Type	Description
<code>message</code>	Message	object	
<code>cron</code>	Cron	object	
<code>interval</code>	Interval	object	

Maximum Age Fields

Field	Type	Required	Description
<code>value</code>	<code>duration (string)</code>	<input checked="" type="checkbox"/>	

Retry Fields

Field	Type	Required	Description
<code>timeout</code>	<code>time-interval (string)</code>	<input checked="" type="checkbox"/>	timeout (e.g. 500ms, 2s etc. - default is 30). Examples: <code>500ms</code> , <code>2h</code>
<code>retries</code>	<code>number (integer)</code>		number of retries. Examples: <code>42</code> , <code>1.2e-10</code>

Trigger - Message Fields

Field	Type	Required	Description
<code>limit</code> ✓	<code>number (integer)</code>		The number of times to run the input. Examples: <code>42</code> , <code>1.2e-10</code>
<code>filter-kind</code>	<code>Filter Kind</code>		Specifies whether the message originated from the "system" or by the "user". Allowed values: <code>system</code> , <code>user</code> , <code>runtime-artifact-fetch</code> , <code>runtime-artifact-fetch-error</code> , <code>runtime-artifact-clear</code> , <code>runtime-artifact-clear-ack</code> , <code>runtime-artifact-fetch-reply</code> , <code>runtime-artifact-update</code> , <code>runtime-artifact-update-ack</code>

<code>filter-source</code>	<code>[Filter Source[]]</code> (#trigger-message-filter-source-options)		Specifies what process generated the message. Was it a "server", "worker" or "job"? Allowed values: <code>job</code> , <code>worker</code> , <code>server</code>
<code>filter-worker</code>	<code>string</code>		Specifies what worker to select.
<code>filter-job</code>	<code>string</code>		Specifies the name of the job that the message came from.
<code>filter-type</code>	<code>[Filter Type[]]</code> (#trigger-message-filter-type-options)		Specifies that particular types of message ought to match. Allowed values: <code>worker-licensed</code> , <code>worker-unlicensed</code> , <code>variable</code> , <code>variable-deleted</code> , <code>begin-shutting-down-job</code> , <code>begin-shutting-down-server</code> , <code>begin-shutting-down-worker</code> , <code>broadcast-job-thread-state</code> , <code>broadcast-server-thread-state</code> , <code>broadcast-worker-thread-state</code> , ...
<code>filter-tag</code>	<code>string</code>		Specifies that messages matched ought to carry a tag with a particular value. This only matches against user-generated messages.

Trigger - Cron - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Cron - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Window size.
<code>offset</code>	<code>duration</code> (<code>string</code>)		Window offset. Default: <code>0s</code>
<code>start</code>	Window Start		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Cron Fields

Field	Type	Required	Description
<code>cron</code>	<code>cron-expression</code> (<code>string</code>)	<input checked="" type="checkbox"/>	The Cron pattern.

<code>immediate</code> ✓	<code>boolean</code> (<code>bool</code>)		Run as soon as invoked, instead of waiting for the specified cron interval. Default: <code>false</code>
<code>random-offset</code>	<code>duration</code> (<code>string</code>)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	<code>Window</code>		Optional window definition when the schedule should only read a bounded range.

Trigger - Interval - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (<code>string</code>)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (<code>string</code>)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (<code>string</code>)	✓	Window size.
<code>offset</code>	<code>duration</code> (<code>string</code>)		Window offset. Default: <code>0s</code>
<code>start</code>	<code>Window Start</code>		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Interval Fields

Field	Type	Required	Description
<code>duration</code>	<code>duration</code> (<code>string</code>)	✓	Duration to wait between events.
<code>random-offset</code>	<code>duration</code> (<code>string</code>)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	<code>Window</code>		Optional window definition when the interval should only cover a bounded range.

Config Table

Setting	Value
<code>setting.name</code>	<code>value</code>

Value format: `templated-text` .

Block Input Mode Options

Value	Name	Description
<code>list-and-download-objects</code>	list-and-download-objects	List Objects and Download
<code>list-objects</code>	list-objects	List Objects
<code>download-objects</code>	download-objects	Download Given Objects

Payload Mode Options

Value	Name	Description
<code>auto</code>	auto	Auto
<code>json</code>	json	Json
<code>raw</code>	raw	Raw
<code>binary</code>	binary	Binary

Input Preprocessor Options

Value	Name	Description
<code>extension</code>	extension	Preprocess the object or blob based on the extension of the object or blob name (.gz, .parquet)
<code>gzip</code>	gzip	UnGzip the received data
<code>parquet</code>	parquet	Extract the received data as JSON rows from a parquet file
<code>base64</code>	base64	Encode the binary data as base64

Trigger - Message - Filter Kind Options

Value	Name	Description
<code>system</code>	system	System
<code>user</code>	user	User
<code>runtime-artifact-fetch</code>	runtime-artifact-fetch	Runtime Artifact Fetch
<code>runtime-artifact-fetch-error</code>	runtime-artifact-fetch-error	Runtime Artifact Fetch Error
<code>runtime-artifact-clear</code>	runtime-artifact-clear	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch-reply</code>	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
<code>runtime-artifact-update</code>	runtime-artifact-update	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	runtime-artifact-update-ack	Runtime Artifact Update Ack

Trigger - Message - Filter Source Options

Value	Name	Description
job	job	Job
worker	worker	Worker
server	server	Server

Trigger - Message - Filter Type Options

Value	Name	Description
worker-licensed	worker-licensed	Worker Licensed
worker-unlicensed	worker-unlicensed	Worker Unlicensed
variable	variable	Variable
variable-deleted	variable-deleted	Variable Deleted
begin-shutting-down-job	begin-shutting-down-job	Begin Shutting Down Job
begin-shutting-down-server	begin-shutting-down-server	Begin Shutting Down Server
begin-shutting-down-worker	begin-shutting-down-worker	Begin Shutting Down Worker
broadcast-job-thread-state	broadcast-job-thread-state	Broadcast Job Thread State
broadcast-server-thread-state	broadcast-server-thread-state	Broadcast Server Thread State
broadcast-worker-thread-state	broadcast-worker-thread-state	Broadcast Worker Thread State
check-job-report-time	check-job-report-time	Check Job Report Time
check-worker-report-time	check-worker-report-time	Check Worker Report Time
de-register-job-thread-dependency	de-register-job-thread-dependency	De Register Job Thread Dependency
de-register-server-thread-dependency	de-register-server-thread-dependency	De Register Server Thread Dependency
de-register-worker-thread-dependency	de-register-worker-thread-dependency	De Register Worker Thread Dependency
deployed-job-active	deployed-job-active	Deployed Job Active
deployed-job-removed	deployed-job-removed	Deployed Job Removed
deployed-job-should-be-running	deployed-job-should-be-running	Deployed Job Should Be Running
deployment-phase	deployment-phase	Deployment Phase
heart-beat	heart-beat	Heart Beat
initialise-internal-state	initialise-internal-state	Initialise Internal State
initialise-job-states	initialise-job-states	Initialise Job States

<code>job-batch-end</code>	job-batch-end	Job Batch End
<code>job-backlog-update</code>	job-backlog-update	Job Backlog Update
<code>job-checkpoint-update</code>	job-checkpoint-update	Job Checkpoint Update
<code>job-deploy-ready</code>	job-deploy-ready	Job Deploy Ready
<code>job-deployed</code>	job-deployed	Job Deployed
<code>job-document-end</code>	job-document-end	Job Document End
<code>job-document-start</code>	job-document-start	Job Document Start
<code>job-errors</code>	job-errors	Job Errors
<code>job-execution-anomaly</code>	job-execution-anomaly	Job Execution Anomaly
<code>job-execution-status</code>	job-execution-status	Job Execution Status
<code>job-emit-custom</code>	job-emit-custom	Job Emit Custom
<code>job-finished</code>	job-finished	Job Finished
<code>job-idle</code>	job-idle	Job Idle
<code>job-initiated</code>	job-initiated	Job Initiated
<code>job-is-processing</code>	job-is-processing	Job Is Processing
<code>job-logs</code>	job-logs	Job Logs
<code>job-metrics</code>	job-metrics	Job Metrics
<code>job-notifications</code>	job-notifications	Job Notifications
<code>job-removing</code>	job-removing	Job Removing
<code>job-removed</code>	job-removed	Job Removed
<code>job-remove-failed</code>	job-remove-failed	Job Remove Failed
<code>job-remove-ready</code>	job-remove-ready	Job Remove Ready
<code>job-replaced</code>	job-replaced	Job Replaced
<code>job-required</code>	job-required	Job Required
<code>job-run-ended</code>	job-run-ended	Job Run Ended
<code>job-runtime-error</code>	job-runtime-error	Job Runtime Error
<code>job-runtime-settings</code>	job-runtime-settings	Job Runtime Settings
<code>job-run-started</code>	job-run-started	Job Run Started
<code>job-running-docker</code>	job-running-docker	Job Running Docker
<code>job-running-script</code>	job-running-script	Job Running Script
<code>job-running-subprocess</code>	job-running-subprocess	Job Running Subprocess
<code>job-running-system-d</code>	job-running-system-d	Job Running System D

job-settings	job-settings	Job Settings
job-step-statistics	job-step-statistics	Job Step Statistics
job-started	job-started	Job Started
job-staged	job-staged	Job Staged
job-state-transition	job-state-transition	Job State Transition
job-shutting-down	job-shutting-down	Job Shutting Down
job-stopping	job-stopping	Job Stopping
job-stopped	job-stopped	Job Stopped
job-timed-out	job-timed-out	Job Timed Out
job-suspicious-silence	job-suspicious-silence	Job Suspicious Silence
job-thread-state	job-thread-state	Job Thread State
job-trace	job-trace	Job Trace
job-trace-requires-samples	job-trace-requires-samples	Job Trace Requires Samples
job-updated	job-updated	Job Updated
job-worker-comms-error	job-worker-comms-error	Job Worker Comms Error
job-unstaged	job-unstaged	Job Unstaged
license-state-changed	license-state-changed	License State Changed
license-validation-failed	license-validation-failed	License Validation Failed
license-validation-ok	license-validation-ok	License Validation Ok
license-volume-violation	license-volume-violation	License Volume Violation
new-license	new-license	New License
override-job-coordinated-shutdown	override-job-coordinated-shutdown	Override Job Coordinated Shutdown
override-server-coordinated-shutdown	override-server-coordinated-shutdown	Override Server Coordinated Shutdown
override-worker-coordinated-shutdown	override-worker-coordinated-shutdown	Override Worker Coordinated Shutdown
register-job-thread-dependency	register-job-thread-dependency	Register Job Thread Dependency
register-server-thread-dependency	register-server-thread-dependency	Register Server Thread Dependency
register-worker-thread-dependency	register-worker-thread-dependency	Register Worker Thread Dependency
run-job-failure	run-job-failure	Run Job Failure
server-logs	server-logs	Server Logs
server-metrics-batch	server-metrics-batch	Server Metrics Batch

server-started	server-started	Server Started
server-starting	server-starting	Server Starting
server-stopping	server-stopping	Server Stopping
server-thread-state	server-thread-state	Server Thread State
server-worker-comms-error	server-worker-comms-error	Server Worker Comms Error
shutdown-jobs	shutdown-jobs	Shutdown Jobs
shutdown-worker	shutdown-worker	Shutdown Worker
system-shutdown	system-shutdown	System Shutdown
update-upstream-sync-for-job	update-upstream-sync-for-job	Update Upstream Sync For Job
update-upstream-sync-for-worker	update-upstream-sync-for-worker	Update Upstream Sync For Worker
update-variable	update-variable	Update Variable
user-alert	user-alert	User Alert
user-generated	user-generated	User Generated
user-notification	user-notification	User Notification
worker-command-for-job	worker-command-for-job	Worker Command For Job
worker-auth-lease-ack	worker-auth-lease-ack	Worker Auth Lease Ack
worker-connected	worker-connected	Worker Connected
worker-created	worker-created	Worker Created
worker-debug-heart-beat	worker-debug-heart-beat	Worker Debug Heart Beat
worker-error	worker-error	Worker Error
worker-first-seen	worker-first-seen	Worker First Seen
worker-heart-beat	worker-heart-beat	Worker Heart Beat
worker-logs	worker-logs	Worker Logs
worker-metrics-batch	worker-metrics-batch	Worker Metrics Batch
worker-offline	worker-offline	Worker Offline
worker-requests-auth-lease	worker-requests-auth-lease	Worker Requests Auth Lease
worker-server-comms-error	worker-server-comms-error	Worker Server Comms Error
worker-settings	worker-settings	Worker Settings
worker-shutdown	worker-shutdown	Worker Shutdown
worker-shutting-down	worker-shutting-down	Worker Shutting Down
worker-started	worker-started	Worker Started
worker-state-uuid	worker-state-uuid	Worker State Uuid

worker-stopping	worker-stopping	Worker Stopping
worker-suspicious-silence	worker-suspicious-silence	Worker Suspicious Silence
worker-system-information	worker-system-information	Worker System Information
worker-thread-state	worker-thread-state	Worker Thread State
worker-updated	worker-updated	Worker Updated
worker-modified	worker-modified	Worker Modified
worker-removed	worker-removed	Worker Removed
context-changed	context-changed	Context Changed
rerender-deployment	rerender-deployment	Rerender Deployment
job-killed	job-killed	Job Killed
message-serviced	message-serviced	Message Serviced
failed-to-service-message	failed-to-service-message	Failed To Service Message
worker-wants-initial-settings	worker-wants-initial-settings	Worker Wants Initial Settings
worker-wants-initial-settings-reply	worker-wants-initial-settings-reply	Worker Wants Initial Settings Reply
worker-wants-deployed-jobs	worker-wants-deployed-jobs	Worker Wants Deployed Jobs
worker-wants-deployed-jobs-reply	worker-wants-deployed-jobs-reply	Worker Wants Deployed Jobs Reply
worker-wants-job-configuration	worker-wants-job-configuration	Worker Wants Job Configuration
worker-wants-job-configuration-reply	worker-wants-job-configuration-reply	Worker Wants Job Configuration Reply
job-wants-dslir-key	job-wants-dslir-key	Job Wants Dslir Key
job-wants-dslir-key-reply	job-wants-dslir-key-reply	Job Wants Dslir Key Reply
worker-wants-dslir-key	worker-wants-dslir-key	Worker Wants Dslir Key
worker-wants-dslir-key-reply	worker-wants-dslir-key-reply	Worker Wants Dslir Key Reply
job-wants-variables	job-wants-variables	Job Wants Variables
job-wants-variables-reply	job-wants-variables-reply	Job Wants Variables Reply
job-wants-credentials	job-wants-credentials	Job Wants Credentials
job-wants-credentials-reply	job-wants-credentials-reply	Job Wants Credentials Reply
job-wants-credentials-error	job-wants-credentials-error	Job Wants Credentials Error
job-wants-secret-variables-reply	job-wants-secret-variables-reply	Job Wants Secret Variables Reply
job-credentials-invalidated	job-credentials-invalidated	Job Credentials Invalidated
aggregator-health	aggregator-health	Aggregator Health

<code>worker-aggregator-health</code>	<code>worker-aggregator-health</code>	Worker Aggregator Health
<code>worker-verification-token</code>	<code>worker-verification-token</code>	Worker Verification Token
<code>worker-requests-verification-token</code>	<code>worker-requests-verification-token</code>	Worker Requests Verification Token
<code>runtime-artifact-update</code>	<code>runtime-artifact-update</code>	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	<code>runtime-artifact-update-ack</code>	Runtime Artifact Update Ack
<code>runtime-artifact-clear</code>	<code>runtime-artifact-clear</code>	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	<code>runtime-artifact-clear-ack</code>	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch</code>	<code>runtime-artifact-fetch</code>	Runtime Artifact Fetch
<code>runtime-artifact-fetch-reply</code>	<code>runtime-artifact-fetch-reply</code>	Runtime Artifact Fetch Reply
<code>runtime-artifact-fetch-error</code>	<code>runtime-artifact-fetch-error</code>	Runtime Artifact Fetch Error

WebSocket

Reference for the WebSocket component in LyftData's DSL

Source: [reference/dsl/inputs/web-socket.md](#)

WebSocket (`web-socket`)

Consume events from remote WebSocket endpoints.

Messaging Enterprise edition json

Minimal example

```
input:
web-socket: url: ""
```

JSON

```
{
  "input": { "web-socket": { "url": "" } } }
```

Contents

- [Minimal example](#)
- [Authentication](#)
- [Batching](#)
- [Connection](#)
- [Cursors](#)
- [Framing](#)
- [Headers](#)
- [Health](#)
- [Reliability](#)
- [Security](#)
- [Server Input](#)
- [Trigger](#)
- [Schema](#)

Authentication

Authentication

Field	Type	Required	Description
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<code>auth</code>	<code>Auth</code>		Authentication material injected during the handshake.
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Batching

Batching

Field	Type	Required	Description
<code>batch</code>	<code>Batch</code>		Logical batching behaviour shared with other inputs.

Connection

Connection

Field	Type	Required	Description
<code>url</code> ✓	<code>url</code> (<code>string</code>)	✓	Target WebSocket endpoint (supports templating). Examples: <code>https://example.com/path</code>
<code>mode</code>	<code>Mode</code>		Operating mode for the connection (currently client only). Allowed values: <code>client</code> , <code>server-output</code> , <code>server-input</code> , <code>relay</code>

Cursors

Cursors

Field	Type	Required	Description
<code>cursor</code>	<code>Cursor</code>		Cursor persistence and replay configuration.

Framing

Framing

Field	Type	Required	Description
<code>permessage-deflate</code> ✓	<code>boolean</code> (<code>bool</code>)		Request the <code>permessage-deflate</code> extension during the handshake. Default: <code>false</code>
<code>payload</code>	<code>Payload</code>		Interpretation applied to inbound frames. Default: <code>text</code> Allowed values: <code>text</code> , <code>json</code> , <code>binary</code> , <code>binary-base64</code>

Headers

Headers

Field	Type	Required	Description
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<code>headers</code> ✓	<code>map (string)</code>		Headers applied to the opening handshake (templated).
<code>query</code> ✓	<code>map (string)</code>		Query parameters appended to the connection URL.
<code>subprotocols</code>	<code>string[]</code>		Preferred subprotocols listed in order of precedence.
<code>extract-headers</code>	<code>string[]</code>		Response headers to surface in event metadata (case-insensitive).

Health

Health

Field	Type	Required	Description
<code>heartbeat</code>	<code>Heartbeat</code>		Optional heartbeat configuration (ping/pong).

Reliability

Reliability

Field	Type	Required	Description
<code>retry</code>	<code>Retry</code>		Retry configuration applied to user-level failures (message processing, decode).
<code>reconnect</code>	<code>Reconnect</code>		Reconnection policy applied when the socket closes unexpectedly.

Security

Security

Field	Type	Required	Description
<code>tls</code>	<code>Tls</code>		TLS configuration for client connections.

Server Input

Server Input

Field	Type	Required	Description
<code>server</code>	<code>Server</code>		Embedded server configuration when operating in <code>server-input</code> mode.

Trigger

Trigger

Field	Type	Required	Description
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trigger	Trigger		Optional schedule for reconnect attempts; if omitted runs once and relies on reconnect policy. Allowed values: <code>message</code> , <code>cron</code> , <code>interval</code>
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Schema

- [Trigger - Cron - Window - Window Start Options](#)
- [Trigger - Interval - Window - Window Start Options](#)
- [Trigger Options](#)
- [Auth - Basic Fields](#)
- [Auth Fields](#)
- [Batch Fields](#)
- [Cursor Fields](#)
- [Heartbeat Fields](#)
- [Retry Fields](#)
- [Reconnect Fields](#)
- [Tls Fields](#)
- [Server - Tls Fields](#)
- [Server Fields](#)
- [Trigger - Message Fields](#)
- [Trigger - Cron - Window - Window Start - Start Time Fields](#)
- [Trigger - Cron - Window Fields](#)
- [Trigger - Cron Fields](#)
- [Trigger - Interval - Window - Window Start - Start Time Fields](#)
- [Trigger - Interval - Window Fields](#)
- [Trigger - Interval Fields](#)
- [Auth - Headers Table](#)
- [Auth - Query Table](#)
- [Headers Table](#)
- [Query Table](#)
- [Mode Options](#)
- [Payload Options](#)
- [Heartbeat - Action Options](#)
- [Trigger - Message - Filter Kind Options](#)
- [Trigger - Message - Filter Source Options](#)
- [Trigger - Message - Filter Type Options](#)

Trigger - Cron - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	<code>object</code>	
<code>tracked</code>	Tracked	<code>string</code>	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window - Window Start Options

Option	Name	Type	Description
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<code>start-time</code>	Start Time	object	
<code>tracked</code>	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger Options

Option	Name	Type	Description
<code>message</code>	Message	object	
<code>cron</code>	Cron	object	
<code>interval</code>	Interval	object	

Auth - Basic Fields

Field	Type	Required	Description
<code>username</code> ✓	string	✓	Username credential (supports templating).
<code>password</code> ✓	string	✓	Password credential (supports templating).

Auth Fields

Field	Type	Required	Description
<code>headers</code> ✓	map (string)		Static or templated headers added during the handshake.
<code>query</code> ✓	map (string)		Query parameters added to the connection URL.
<code>bearer-token</code> ✓	string		Bearer token inserted as <code>Authorization: Bearer ...</code> .
<code>basic</code>	Basic		Basic auth credentials sent via header.

Batch Fields

Field	Type	Required	Description
<code>uuid-field</code>	field (string)		Field where generated uuid, the unique marker for the group, will be stored. Examples: <code>data_field</code>
<code>invocation-time-field</code>	field (string)		Field where invocation time will be stored. Examples: <code>data_field</code>
<code>completion-time-field</code>	field (string)		Field where completion (end of execution) time will be stored. Examples: <code>data_field</code>
<code>begin-marker-field</code>	field (string)		Field used to mark first event in the group. Examples: <code>data_field</code>
<code>end-marker-field</code>	field (string)		Field used to mark last event in the group. Examples: <code>data_field</code>
<code>line-count-field</code>	field (string)		Field used to store the line count of the batch. Examples: <code>data_field</code>

<code>line-num-field</code>	<code>field (string)</code>		Field used to store the line number of the batch. Examples: <code>data_field</code>
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Cursor Fields

Field	Type	Required	Description
<code>header-name</code>	<code>string</code>		Header name used to propagate the cursor on reconnect (e.g. <code>Last-Event-ID</code>).
<code>query-parameter</code>	<code>string</code>		Query parameter name used to propagate the cursor value.
<code>persist-to</code>	<code>string</code>		Storage location for cursor state (defaults to job-scoped state).
<code>initial-value</code> ✓	<code>string</code>		Initial cursor value to send on the first connection.
<code>state-id</code>	<code>string</code>		Optional explicit state identifier when sharing cursors across jobs.
<code>resume-on-reconnect</code> ✓	<code>boolean (bool)</code>		Whether to inject the cursor on every reconnect attempt. Default: <code>false</code>
<code>value-field</code>	<code>field (string)</code>		Event field used to derive the cursor value after successful delivery. Examples: <code>data_field</code>
<code>value-pointer</code>	<code>json-pointer (string)</code>		JSON pointer used to derive the cursor value from emitted payloads.

Heartbeat Fields

Field	Type	Required	Description
<code>ping-interval</code> ✓	<code>string</code>		Interval between ping frames.
<code>timeout</code> ✓	<code>string</code>		Grace period for receiving a pong before the connection is considered unhealthy.
<code>action</code>	<code>Action</code>		What to do when a heartbeat misses the timeout. Allowed values: <code>reconnect</code> , <code>log-only</code>
<code>payload</code> ✓	<code>string</code>		Optional ping payload to send with heartbeats.

Retry Fields

Field	Type	Required	Description
<code>timeout</code>	<code>time-interval (string)</code>	✓	timeout (e.g. 500ms, 2s etc. - default is 30). Examples: <code>500ms</code> , <code>2h</code>
<code>retries</code>	<code>number (integer)</code>		number of retries. Examples: <code>42</code> , <code>1.2e-10</code>

Reconnect Fields

Field	Type	Required	Description
<code>initial-backoff</code> ✓	string		Backoff applied after the first failure (human-friendly duration).
<code>max-backoff</code> ✓	string		Maximum backoff duration before clamping (human-friendly duration).
<code>multiplier</code>	number (integer)		Exponential multiplier applied after each failure. Examples: <code>42</code> , <code>1.2e-10</code>
<code>jitter</code>	number (integer)		Random jitter factor applied to backoff windows (0.0-1.0). Examples: <code>42</code> , <code>1.2e-10</code>
<code>max-attempts</code>	number (integer)		Maximum number of consecutive attempts before giving up (None=infinite). Examples: <code>42</code> , <code>1.2e-10</code>
<code>reset-after</code> ✓	string		Time after a successful connection before resetting the attempt counter.

Tls Fields

Field	Type	Required	Description
<code>ca-certificate</code> ✓	string		Custom CA certificate to trust.
<code>client-certificate</code> ✓	string		Client certificate for mutual TLS.
<code>client-key</code> ✓	string		Client private key for mutual TLS.
<code>insecure-skip-verify</code> ✓	boolean (bool)		Skip certificate validation (unsafe). Default: <code>false</code>

Server - Tls Fields

Field	Type	Required	Description
<code>cert</code>	path (string)	✓	Path to the certificate file. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>
<code>key</code>	path (string)	✓	Path to the private key file. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Server Fields

Field	Type	Required	Description
<code>bind</code>	string	✓	Address to bind (e.g. <code>0.0.0.0:8080</code>).
<code>path</code>	string		Optional path/route restriction.
<code>tls</code>	Tls		Optional TLS material for the listener.
<code>max-connections</code>	number (integer)		Maximum simultaneously connected clients (None = unlimited). Examples: <code>42</code> , <code>1.2e-10</code>
<code>idle-timeout</code> ✓	string		Disconnect clients after this idle duration.

<code>allowed-origins</code>	<code>string[]</code>		Restrict accepted requests to these Origin / Sec-WebSocket-Origin values.
<code>send-buffer-capacity</code>	<code>number (integer)</code>		Per-connection send buffer (messages queued when clients are slow). Examples: <code>42</code> , <code>1.2e-10</code>

Trigger - Message Fields

Field	Type	Required	Description
<code>limit</code> ✓	<code>number (integer)</code>		The number of times to run the input. Examples: <code>42</code> , <code>1.2e-10</code>
<code>filter-kind</code>	<code>Filter Kind</code>		Specifies whether the message originated from the "system" or by the "user". Allowed values: <code>system</code> , <code>user</code> , <code>runtime-artifact-fetch</code> , <code>runtime-artifact-fetch-error</code> , <code>runtime-artifact-clear</code> , <code>runtime-artifact-clear-ack</code> , <code>runtime-artifact-fetch-reply</code> , <code>runtime-artifact-update</code> , <code>runtime-artifact-update-ack</code>
<code>filter-source</code>	<code>[Filter Source[]] (#trigger-message-filter-source-options)</code>		Specifies what process generated the message. Was it a "server", "worker" or "job"? Allowed values: <code>job</code> , <code>worker</code> , <code>server</code>
<code>filter-worker</code>	<code>string</code>		Specifies what worker to select.
<code>filter-job</code>	<code>string</code>		Specifies the name of the job that the message came from.
<code>filter-type</code>	<code>[Filter Type[]] (#trigger-message-filter-type-options)</code>		Specifies that particular types of message ought to match. Allowed values: <code>worker-licensed</code> , <code>worker-unlicensed</code> , <code>variable</code> , <code>variable-deleted</code> , <code>begin-shutting-down-job</code> , <code>begin-shutting-down-server</code> , <code>begin-shutting-down-worker</code> , <code>broadcast-job-thread-state</code> , <code>broadcast-server-thread-state</code> , <code>broadcast-worker-thread-state</code> , ...
<code>filter-tag</code>	<code>string</code>		Specifies that messages matched ought to carry a tag with a particular value. This only matches against user-generated messages.

Trigger - Cron - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format (string)</code>	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path (string)</code>	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Cron - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (<code>string</code>)	✓	Window size.
<code>offset</code>	<code>duration</code> (<code>string</code>)		Window offset. Default: <code>0s</code>
<code>start</code>	Window Start		Specify file where timestamp would be stored in order to resume, for when job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Cron Fields

Field	Type	Required	Description
<code>cron</code>	<code>cron-expression</code> (<code>string</code>)	✓	The Cron pattern.
<code>immediate</code> ✓	<code>boolean</code> (<code>bool</code>)		Run as soon as invoked, instead of waiting for the specified cron interval. Default: <code>false</code>
<code>random-offset</code>	<code>duration</code> (<code>string</code>)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	Window		Optional window definition when the schedule should only read a bounded range.

Trigger - Interval - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (<code>string</code>)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (<code>string</code>)	✓	Specify file where timestamp would be stored in order to resume, for when job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (<code>string</code>)	✓	Window size.
<code>offset</code>	<code>duration</code> (<code>string</code>)		Window offset. Default: <code>0s</code>
<code>start</code>	Window Start		Specify file where timestamp would be stored in order to resume, for when job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Interval Fields

Field	Type	Required	Description
<code>duration</code>	<code>duration</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Duration to wait between events.
<code>random-offset</code>	<code>duration</code> (<code>string</code>)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	<code>Window</code>		Optional window definition when the interval should only cover a bounded range.

Auth - Headers Table

Header	Value
<code>Header-Name</code>	<code>value</code>

Value format: `templated-text` .

Auth - Query Table

Parameter	Value
<code>param</code>	<code>value</code>

Value format: `templated-text` .

Headers Table

Header	Value
<code>Header-Name</code>	<code>value</code>

Value format: `templated-text` .

Query Table

Parameter	Value
<code>param</code>	<code>value</code>

Value format: `templated-text` .

Mode Options

Value	Name	Description
<code>client</code>	<code>client</code>	Client
<code>server-output</code>	<code>server-output</code>	Server Output
<code>server-input</code>	<code>server-input</code>	Server Input

relay	relay	Relay
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Payload Options

Value	Name	Description
text	text	Text
json	json	Json
binary	binary	Binary
binary-base64	binary-base64	Binary Base64

Heartbeat - Action Options

Value	Name	Description
reconnect	reconnect	Reconnect
log-only	log-only	Log Only

Trigger - Message - Filter Kind Options

Value	Name	Description
system	system	System
user	user	User
runtime-artifact-fetch	runtime-artifact-fetch	Runtime Artifact Fetch
runtime-artifact-fetch-error	runtime-artifact-fetch-error	Runtime Artifact Fetch Error
runtime-artifact-clear	runtime-artifact-clear	Runtime Artifact Clear
runtime-artifact-clear-ack	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
runtime-artifact-fetch-reply	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
runtime-artifact-update	runtime-artifact-update	Runtime Artifact Update
runtime-artifact-update-ack	runtime-artifact-update-ack	Runtime Artifact Update Ack

Trigger - Message - Filter Source Options

Value	Name	Description
job	job	Job
worker	worker	Worker
server	server	Server

Trigger - Message - Filter Type Options

Value	Name	Description
worker-licensed	worker-licensed	Worker Licensed
worker-unlicensed	worker-unlicensed	Worker Unlicensed
variable	variable	Variable
variable-deleted	variable-deleted	Variable Deleted
begin-shutting-down-job	begin-shutting-down-job	Begin Shutting Down Job
begin-shutting-down-server	begin-shutting-down-server	Begin Shutting Down Server
begin-shutting-down-worker	begin-shutting-down-worker	Begin Shutting Down Worker
broadcast-job-thread-state	broadcast-job-thread-state	Broadcast Job Thread State
broadcast-server-thread-state	broadcast-server-thread-state	Broadcast Server Thread State
broadcast-worker-thread-state	broadcast-worker-thread-state	Broadcast Worker Thread State
check-job-report-time	check-job-report-time	Check Job Report Time
check-worker-report-time	check-worker-report-time	Check Worker Report Time
de-register-job-thread-dependency	de-register-job-thread-dependency	De Register Job Thread Dependency
de-register-server-thread-dependency	de-register-server-thread-dependency	De Register Server Thread Dependency
de-register-worker-thread-dependency	de-register-worker-thread-dependency	De Register Worker Thread Dependency
deployed-job-active	deployed-job-active	Deployed Job Active
deployed-job-removed	deployed-job-removed	Deployed Job Removed
deployed-job-should-be-running	deployed-job-should-be-running	Deployed Job Should Be Running
deployment-phase	deployment-phase	Deployment Phase
heart-beat	heart-beat	Heart Beat
initialise-internal-state	initialise-internal-state	Initialise Internal State
initialise-job-states	initialise-job-states	Initialise Job States
job-batch-end	job-batch-end	Job Batch End
job-backlog-update	job-backlog-update	Job Backlog Update
job-checkpoint-update	job-checkpoint-update	Job Checkpoint Update
job-deploy-ready	job-deploy-ready	Job Deploy Ready
job-deployed	job-deployed	Job Deployed
job-document-end	job-document-end	Job Document End
job-document-start	job-document-start	Job Document Start

job-errors	job-errors	Job Errors
job-execution-anomaly	job-execution-anomaly	Job Execution Anomaly
job-execution-status	job-execution-status	Job Execution Status
job-emit-custom	job-emit-custom	Job Emit Custom
job-finished	job-finished	Job Finished
job-idle	job-idle	Job Idle
job-initiated	job-initiated	Job Initiated
job-is-processing	job-is-processing	Job Is Processing
job-logs	job-logs	Job Logs
job-metrics	job-metrics	Job Metrics
job-notifications	job-notifications	Job Notifications
job-removing	job-removing	Job Removing
job-removed	job-removed	Job Removed
job-remove-failed	job-remove-failed	Job Remove Failed
job-remove-ready	job-remove-ready	Job Remove Ready
job-replaced	job-replaced	Job Replaced
job-required	job-required	Job Required
job-run-ended	job-run-ended	Job Run Ended
job-runtime-error	job-runtime-error	Job Runtime Error
job-runtime-settings	job-runtime-settings	Job Runtime Settings
job-run-started	job-run-started	Job Run Started
job-running-docker	job-running-docker	Job Running Docker
job-running-script	job-running-script	Job Running Script
job-running-subprocess	job-running-subprocess	Job Running Subprocess
job-running-system-d	job-running-system-d	Job Running System D
job-settings	job-settings	Job Settings
job-step-statistics	job-step-statistics	Job Step Statistics
job-started	job-started	Job Started
job-staged	job-staged	Job Staged
job-state-transition	job-state-transition	Job State Transition
job-shutting-down	job-shutting-down	Job Shutting Down
job-stopping	job-stopping	Job Stopping

job-stopped	job-stopped	Job Stopped
job-timed-out	job-timed-out	Job Timed Out
job-suspicious-silence	job-suspicious-silence	Job Suspicious Silence
job-thread-state	job-thread-state	Job Thread State
job-trace	job-trace	Job Trace
job-trace-requires-samples	job-trace-requires-samples	Job Trace Requires Samples
job-updated	job-updated	Job Updated
job-worker-comms-error	job-worker-comms-error	Job Worker Comms Error
job-unstaged	job-unstaged	Job Unstaged
license-state-changed	license-state-changed	License State Changed
license-validation-failed	license-validation-failed	License Validation Failed
license-validation-ok	license-validation-ok	License Validation Ok
license-volume-violation	license-volume-violation	License Volume Violation
new-license	new-license	New License
override-job-coordinated-shutdown	override-job-coordinated-shutdown	Override Job Coordinated Shutdown
override-server-coordinated-shutdown	override-server-coordinated-shutdown	Override Server Coordinated Shutdown
override-worker-coordinated-shutdown	override-worker-coordinated-shutdown	Override Worker Coordinated Shutdown
register-job-thread-dependency	register-job-thread-dependency	Register Job Thread Dependency
register-server-thread-dependency	register-server-thread-dependency	Register Server Thread Dependency
register-worker-thread-dependency	register-worker-thread-dependency	Register Worker Thread Dependency
run-job-failure	run-job-failure	Run Job Failure
server-logs	server-logs	Server Logs
server-metrics-batch	server-metrics-batch	Server Metrics Batch
server-started	server-started	Server Started
server-starting	server-starting	Server Starting
server-stopping	server-stopping	Server Stopping
server-thread-state	server-thread-state	Server Thread State
server-worker-comms-error	server-worker-comms-error	Server Worker Comms Error
shutdown-jobs	shutdown-jobs	Shutdown Jobs
shutdown-worker	shutdown-worker	Shutdown Worker

system-shutdown	system-shutdown	System Shutdown
update-upstream-sync-for-job	update-upstream-sync-for-job	Update Upstream Sync For Job
update-upstream-sync-for-worker	update-upstream-sync-for-worker	Update Upstream Sync For Worker
update-variable	update-variable	Update Variable
user-alert	user-alert	User Alert
user-generated	user-generated	User Generated
user-notification	user-notification	User Notification
worker-command-for-job	worker-command-for-job	Worker Command For Job
worker-auth-lease-ack	worker-auth-lease-ack	Worker Auth Lease Ack
worker-connected	worker-connected	Worker Connected
worker-created	worker-created	Worker Created
worker-debug-heart-beat	worker-debug-heart-beat	Worker Debug Heart Beat
worker-error	worker-error	Worker Error
worker-first-seen	worker-first-seen	Worker First Seen
worker-heart-beat	worker-heart-beat	Worker Heart Beat
worker-logs	worker-logs	Worker Logs
worker-metrics-batch	worker-metrics-batch	Worker Metrics Batch
worker-offline	worker-offline	Worker Offline
worker-requests-auth-lease	worker-requests-auth-lease	Worker Requests Auth Lease
worker-server-comms-error	worker-server-comms-error	Worker Server Comms Error
worker-settings	worker-settings	Worker Settings
worker-shutdown	worker-shutdown	Worker Shutdown
worker-shutting-down	worker-shutting-down	Worker Shutting Down
worker-started	worker-started	Worker Started
worker-state-uuid	worker-state-uuid	Worker State Uuid
worker-stopping	worker-stopping	Worker Stopping
worker-suspicious-silence	worker-suspicious-silence	Worker Suspicious Silence
worker-system-information	worker-system-information	Worker System Information
worker-thread-state	worker-thread-state	Worker Thread State
worker-updated	worker-updated	Worker Updated
worker-modified	worker-modified	Worker Modified
worker-removed	worker-removed	Worker Removed

context-changed	context-changed	Context Changed
rerender-deployment	rerender-deployment	Rerender Deployment
job-killed	job-killed	Job Killed
message-serviced	message-serviced	Message Serviced
failed-to-service-message	failed-to-service-message	Failed To Service Message
worker-wants-initial-settings	worker-wants-initial-settings	Worker Wants Initial Settings
worker-wants-initial-settings-reply	worker-wants-initial-settings-reply	Worker Wants Initial Settings Reply
worker-wants-deployed-jobs	worker-wants-deployed-jobs	Worker Wants Deployed Jobs
worker-wants-deployed-jobs-reply	worker-wants-deployed-jobs-reply	Worker Wants Deployed Jobs Reply
worker-wants-job-configuration	worker-wants-job-configuration	Worker Wants Job Configuration
worker-wants-job-configuration-reply	worker-wants-job-configuration-reply	Worker Wants Job Configuration Reply
job-wants-dslir-key	job-wants-dslir-key	Job Wants Dslir Key
job-wants-dslir-key-reply	job-wants-dslir-key-reply	Job Wants Dslir Key Reply
worker-wants-dslir-key	worker-wants-dslir-key	Worker Wants Dslir Key
worker-wants-dslir-key-reply	worker-wants-dslir-key-reply	Worker Wants Dslir Key Reply
job-wants-variables	job-wants-variables	Job Wants Variables
job-wants-variables-reply	job-wants-variables-reply	Job Wants Variables Reply
job-wants-credentials	job-wants-credentials	Job Wants Credentials
job-wants-credentials-reply	job-wants-credentials-reply	Job Wants Credentials Reply
job-wants-credentials-error	job-wants-credentials-error	Job Wants Credentials Error
job-wants-secret-variables-reply	job-wants-secret-variables-reply	Job Wants Secret Variables Reply
job-credentials-invalidated	job-credentials-invalidated	Job Credentials Invalidated
aggregator-health	aggregator-health	Aggregator Health
worker-aggregator-health	worker-aggregator-health	Worker Aggregator Health
worker-verification-token	worker-verification-token	Worker Verification Token
worker-requests-verification-token	worker-requests-verification-token	Worker Requests Verification Token
runtime-artifact-update	runtime-artifact-update	Runtime Artifact Update
runtime-artifact-update-ack	runtime-artifact-update-ack	Runtime Artifact Update Ack
runtime-artifact-clear	runtime-artifact-clear	Runtime Artifact Clear
runtime-artifact-clear-ack	runtime-artifact-clear-ack	Runtime Artifact Clear Ack

<code>runtime-artifact-fetch</code>	runtime-artifact-fetch	Runtime Artifact Fetch
<code>runtime-artifact-fetch-reply</code>	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
<code>runtime-artifact-fetch-error</code>	runtime-artifact-fetch-error	Runtime Artifact Fetch Error

Windows Event Log

Reference for the Windows Event Log component in LyftData's DSL

Source: [reference/dsl/inputs/windows-event-log.md](#)

Windows Event Log (`windows-event-log`)

Read events from Windows Event Log.

Windows Enterprise edition json

Minimal example

```
input:
windows-event-log: channel: ~ query: ~
```

JSON

```
{
  "input": { "windows-event-log": { "channel": null, "query": null } } }
```

Contents

- [Minimal example](#)
- [Behavior](#)
- [Debugging](#)
- [Query](#)
- [Source](#)

Behavior

Behavior

Field	Type	Required	Description
<code>start-at-oldest</code> ✓	<code>boolean</code> (<code>bool</code>)		Start with the oldest event available in the log. Default: <code>false</code>

Debugging

Debugging

Field	Type	Required	Description
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<code>debug-event-payloads</code> ✓	<code>boolean</code> (<code>bool</code>)	Dump expanded event log data (not recommended for production). Default: <code>false</code>
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Query

Query

Field	Type	Required	Description
<code>query</code>	<code>string</code>	✓	The query to filter events.

Source

Source

Field	Type	Required	Description
<code>channel</code>	<code>string</code>	✓	The publisher channel to read events from.

Worker Channel

Reference for the Worker Channel component in LyftData's DSL

Source: `reference/dsl/inputs/worker-channel.md`

Worker Channel (`worker-channel`)

Receive events from a worker managed channel.

Messaging binary json raw

Minimal example

```
input:
worker-channel: worker-channel-name: ~
```

JSON

```
{
  "input": { "worker-channel": { "worker-channel-name": null } } }
```

Contents

- [Minimal example](#)
- [Channel](#)

Channel

Channel

Field	Type	Required	Description
<code>worker-channel-name</code>	<code>string</code>	<input checked="" type="checkbox"/>	The unique name for this worker channel (e.g. "my-channel").

Worker KV

Reference for the Worker KV component in LyftData's DSL

Source: <reference/dsl/inputs/worker-kv.md>

Worker KV (`worker-kv`)

Interact with the deployments-managed Worker KV store.

Storage json raw

Minimal example

```
input:
worker-kv: namespace: ~ operation: get: key: ~
```

JSON

```
{
  "input": { "worker-kv": { "namespace": null, "operation": { "get": { "key": null } } } } }
```

Contents

- [Minimal example](#)
- [Connection](#)
- [Decoding](#)
- [Operation](#)
- [Polling](#)
- [Reliability](#)
- [Schema](#)

Connection

Connection

Field	Type	Required	Description
<code>namespace</code>	<code>string</code>	<input checked="" type="checkbox"/>	Fully-qualified Worker KV namespace (format: <code>tenant:namespace</code> , e.g. <code>acme:deployments/my-deployment</code>).

Decoding

Decoding

Field	Type	Required	Description
<code>value-format</code>	Value Format		Preferred value format when decoding KV payloads (defaults to JSON). Allowed values: <code>json</code> , <code>raw-string</code>

Operation

Operation

Field	Type	Required	Description
<code>operation</code>	Worker KV Input Operation	<input checked="" type="checkbox"/>	Operation to perform against the namespace. Allowed values: <code>get</code> , <code>pop-batch</code> , <code>iterate</code>

Polling

Polling

Field	Type	Required	Description
<code>trigger</code>	Trigger		Optional interval/cron trigger; PopBatch defaults to continuous polling. Allowed values: <code>message</code> , <code>cron</code> , <code>interval</code>

Reliability

Reliability

Field	Type	Required	Description
<code>retry</code>	Retry		Retry policy for transient failures.

Schema

- [Worker KV Input Operation Options](#)
- [Trigger - Cron - Window - Window Start Options](#)
- [Trigger - Interval - Window - Window Start Options](#)
- [Trigger Options](#)
- [Worker KV Input Operation - Get Fields](#)
- [Worker KV Input Operation - Pop Batch Fields](#)
- [Worker KV Input Operation - Iterate Fields](#)
- [Trigger - Message Fields](#)
- [Trigger - Cron - Window - Window Start - Start Time Fields](#)
- [Trigger - Cron - Window Fields](#)
- [Trigger - Cron Fields](#)
- [Trigger - Interval - Window - Window Start - Start Time Fields](#)
- [Trigger - Interval - Window Fields](#)

- [Trigger - Interval Fields](#)
- [Retry Fields](#)
- [Value Format Options](#)
- [Worker KV Input Operation - Pop Batch - Ack Mode Options](#)
- [Trigger - Message - Filter Kind Options](#)
- [Trigger - Message - Filter Source Options](#)
- [Trigger - Message - Filter Type Options](#)

Worker KV Input Operation Options

Option	Name	Type	Description
<code>get</code>	Get	object	
<code>pop-batch</code>	Pop Batch	object	
<code>iterate</code>	Iterate	object	

Trigger - Cron - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	object	
<code>tracked</code>	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window - Window Start Options

Option	Name	Type	Description
<code>start-time</code>	Start Time	object	
<code>tracked</code>	Tracked	string	Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger Options

Option	Name	Type	Description
<code>message</code>	Message	object	
<code>cron</code>	Cron	object	
<code>interval</code>	Interval	object	

Worker KV Input Operation - Get Fields

Field	Type	Required	Description
<code>key</code>	string	<input checked="" type="checkbox"/>	Key to fetch from the namespace.

Worker KV Input Operation - Pop Batch Fields

Field	Type	Required	Description
<code>set</code>	<code>string</code>	✓	Workset name to draw members from.
<code>limit</code>	<code>number</code> (<code>integer</code>)		Maximum members to return in a single batch (defaults to 1). Examples: <code>42</code> , <code>1.2e-10</code>
<code>lease-ttl-ms</code>	<code>number</code> (<code>integer</code>)		Lease duration in milliseconds (defaults to planner-provided TTL). Examples: <code>42</code> , <code>1.2e-10</code>
<code>ack-mode</code>	Ack Mode	✓	Ack mode (<code>ack-batch</code> or <code>ack-each</code>). Allowed values: <code>ack-batch</code> , <code>ack-each</code>

Worker KV Input Operation - Iterate Fields

Field	Type	Required	Description
<code>prefix</code>	<code>string</code>	✓	Prefix to scan within the namespace.
<code>page-size</code>	<code>number</code> (<code>integer</code>)		Page size for iteration. Examples: <code>42</code> , <code>1.2e-10</code>

Trigger - Message Fields

Field	Type	Required	Description
<code>limit</code> ✓	<code>number</code> (<code>integer</code>)		The number of times to run the input. Examples: <code>42</code> , <code>1.2e-10</code>
<code>filter-kind</code>	Filter Kind		Specifies whether the message originated from the "system" or by the "user". Allowed values: <code>system</code> , <code>user</code> , <code>runtime-artifact-fetch</code> , <code>runtime-artifact-fetch-error</code> , <code>runtime-artifact-clear</code> , <code>runtime-artifact-clear-ack</code> , <code>runtime-artifact-fetch-reply</code> , <code>runtime-artifact-update</code> , <code>runtime-artifact-update-ack</code>
<code>filter-source</code>	[Filter Source[]] (#trigger-message-filter-source-options)		Specifies what process generated the message. Was it a "server", "worker" or "job"? Allowed values: <code>job</code> , <code>worker</code> , <code>server</code>
<code>filter-worker</code>	<code>string</code>		Specifies what worker to select.
<code>filter-job</code>	<code>string</code>		Specifies the name of the job that the message came from.
<code>filter-type</code>	[Filter Type[]] (#trigger-message-filter-type-options)		Specifies that particular types of message ought to match. Allowed values: <code>worker-licensed</code> , <code>worker-unlicensed</code> , <code>variable</code> , <code>variable-deleted</code> , <code>begin-shutting-down-job</code> , <code>begin-shutting-down-server</code> , <code>begin-shutting-down-worker</code> , <code>broadcast-job-thread-state</code> , <code>broadcast-server-thread-state</code> , <code>broadcast-worker-thread-state</code> , ...
<code>filter-tag</code>	<code>string</code>		Specifies that messages matched ought to carry a tag with a particular value. This only matches against user-generated messages.

Trigger - Cron - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (string)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (string)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Cron - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (string)	✓	Window size.
<code>offset</code>	<code>duration</code> (string)		Window offset. Default: <code>0s</code>
<code>start</code>	Window Start		Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Cron Fields

Field	Type	Required	Description
<code>cron</code>	<code>cron-expression</code> (string)	✓	The Cron pattern.
<code>immediate</code> ✓	<code>boolean</code> (bool)		Run as soon as invoked, instead of waiting for the specified cron interval. Default: <code>false</code>
<code>random-offset</code>	<code>duration</code> (string)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	Window		Optional window definition when the schedule should only read a bounded range.

Trigger - Interval - Window - Window Start - Start Time Fields

Field	Type	Required	Description
<code>start-time</code>	<code>time-format</code> (string)	✓	Allows the windowing to start at a specified time. Hint: <code>%Y-%m-%d %H:%M:%S%.3f %z</code>
<code>highwatermark-file</code>	<code>path</code> (string)	✓	Specify file where timestamp would be stored in order to resume, for when Job has been restarted. Examples: <code>/path/to/file</code> , <code>c:\users\joe\data\file.txt</code>

Trigger - Interval - Window Fields

Field	Type	Required	Description
<code>size</code>	<code>duration</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Window size.
<code>offset</code>	<code>duration</code> (<code>string</code>)		Window offset. Default: <code>0s</code>
<code>start</code>	<code>Window Start</code>		Specify file where timestamp would be stored in order to resume, for when job has been restarted. Allowed values: <code>start-time</code> , <code>tracked</code>

Trigger - Interval Fields

Field	Type	Required	Description
<code>duration</code>	<code>duration</code> (<code>string</code>)	<input checked="" type="checkbox"/>	Duration to wait between events.
<code>random-offset</code>	<code>duration</code> (<code>string</code>)		Sets a random offset to the schedule, then sticks to it. Default: <code>0s</code>
<code>window</code>	<code>Window</code>		Optional window definition when the interval should only cover a bounded range.

Retry Fields

Field	Type	Required	Description
<code>timeout</code>	<code>time-interval</code> (<code>string</code>)	<input checked="" type="checkbox"/>	timeout (e.g. 500ms, 2s etc. - default is 30). Examples: <code>500ms</code> , <code>2h</code>
<code>retries</code>	<code>number</code> (<code>integer</code>)		number of retries. Examples: <code>42</code> , <code>1.2e-10</code>

Value Format Options

Value	Name	Description
<code>json</code>	<code>json</code>	Json
<code>raw-string</code>	<code>raw-string</code>	Raw String

Worker KV Input Operation - Pop Batch - Ack Mode Options

Value	Name	Description
<code>ack-batch</code>	<code>ack-batch</code>	Ack Batch
<code>ack-each</code>	<code>ack-each</code>	Ack Each

Trigger - Message - Filter Kind Options

Value	Name	Description
<code>system</code>	<code>system</code>	System

<code>user</code>	user	User
<code>runtime-artifact-fetch</code>	runtime-artifact-fetch	Runtime Artifact Fetch
<code>runtime-artifact-fetch-error</code>	runtime-artifact-fetch-error	Runtime Artifact Fetch Error
<code>runtime-artifact-clear</code>	runtime-artifact-clear	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	runtime-artifact-clear-ack	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch-reply</code>	runtime-artifact-fetch-reply	Runtime Artifact Fetch Reply
<code>runtime-artifact-update</code>	runtime-artifact-update	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	runtime-artifact-update-ack	Runtime Artifact Update Ack

Trigger - Message - Filter Source Options

Value	Name	Description
<code>job</code>	job	Job
<code>worker</code>	worker	Worker
<code>server</code>	server	Server

Trigger - Message - Filter Type Options

Value	Name	Description
<code>worker-licensed</code>	worker-licensed	Worker Licensed
<code>worker-unlicensed</code>	worker-unlicensed	Worker Unlicensed
<code>variable</code>	variable	Variable
<code>variable-deleted</code>	variable-deleted	Variable Deleted
<code>begin-shutting-down-job</code>	begin-shutting-down-job	Begin Shutting Down Job
<code>begin-shutting-down-server</code>	begin-shutting-down-server	Begin Shutting Down Server
<code>begin-shutting-down-worker</code>	begin-shutting-down-worker	Begin Shutting Down Worker
<code>broadcast-job-thread-state</code>	broadcast-job-thread-state	Broadcast Job Thread State
<code>broadcast-server-thread-state</code>	broadcast-server-thread-state	Broadcast Server Thread State
<code>broadcast-worker-thread-state</code>	broadcast-worker-thread-state	Broadcast Worker Thread State
<code>check-job-report-time</code>	check-job-report-time	Check Job Report Time
<code>check-worker-report-time</code>	check-worker-report-time	Check Worker Report Time
<code>de-register-job-thread-dependency</code>	de-register-job-thread-dependency	De Register Job Thread Dependency
<code>de-register-server-thread-dependency</code>	de-register-server-thread-dependency	De Register Server Thread Dependency

de-register-worker-thread-dependency	de-register-worker-thread-dependency	De Register Worker Thread Dependency
deployed-job-active	deployed-job-active	Deployed Job Active
deployed-job-removed	deployed-job-removed	Deployed Job Removed
deployed-job-should-be-running	deployed-job-should-be-running	Deployed Job Should Be Running
deployment-phase	deployment-phase	Deployment Phase
heart-beat	heart-beat	Heart Beat
initialise-internal-state	initialise-internal-state	Initialise Internal State
initialise-job-states	initialise-job-states	Initialise Job States
job-batch-end	job-batch-end	Job Batch End
job-backlog-update	job-backlog-update	Job Backlog Update
job-checkpoint-update	job-checkpoint-update	Job Checkpoint Update
job-deploy-ready	job-deploy-ready	Job Deploy Ready
job-deployed	job-deployed	Job Deployed
job-document-end	job-document-end	Job Document End
job-document-start	job-document-start	Job Document Start
job-errors	job-errors	Job Errors
job-execution-anomaly	job-execution-anomaly	Job Execution Anomaly
job-execution-status	job-execution-status	Job Execution Status
job-emit-custom	job-emit-custom	Job Emit Custom
job-finished	job-finished	Job Finished
job-idle	job-idle	Job Idle
job-initiated	job-initiated	Job Initiated
job-is-processing	job-is-processing	Job Is Processing
job-logs	job-logs	Job Logs
job-metrics	job-metrics	Job Metrics
job-notifications	job-notifications	Job Notifications
job-removing	job-removing	Job Removing
job-removed	job-removed	Job Removed
job-remove-failed	job-remove-failed	Job Remove Failed
job-remove-ready	job-remove-ready	Job Remove Ready
job-replaced	job-replaced	Job Replaced

job-required	job-required	Job Required
job-run-ended	job-run-ended	Job Run Ended
job-runtime-error	job-runtime-error	Job Runtime Error
job-runtime-settings	job-runtime-settings	Job Runtime Settings
job-run-started	job-run-started	Job Run Started
job-running-docker	job-running-docker	Job Running Docker
job-running-script	job-running-script	Job Running Script
job-running-subprocess	job-running-subprocess	Job Running Subprocess
job-running-system-d	job-running-system-d	Job Running System D
job-settings	job-settings	Job Settings
job-step-statistics	job-step-statistics	Job Step Statistics
job-started	job-started	Job Started
job-staged	job-staged	Job Staged
job-state-transition	job-state-transition	Job State Transition
job-shutting-down	job-shutting-down	Job Shutting Down
job-stopping	job-stopping	Job Stopping
job-stopped	job-stopped	Job Stopped
job-timed-out	job-timed-out	Job Timed Out
job-suspicious-silence	job-suspicious-silence	Job Suspicious Silence
job-thread-state	job-thread-state	Job Thread State
job-trace	job-trace	Job Trace
job-trace-requires-samples	job-trace-requires-samples	Job Trace Requires Samples
job-updated	job-updated	Job Updated
job-worker-comms-error	job-worker-comms-error	Job Worker Comms Error
job-unstaged	job-unstaged	Job Unstaged
license-state-changed	license-state-changed	License State Changed
license-validation-failed	license-validation-failed	License Validation Failed
license-validation-ok	license-validation-ok	License Validation Ok
license-volume-violation	license-volume-violation	License Volume Violation
new-license	new-license	New License
override-job-coordinated-shutdown	override-job-coordinated-shutdown	Override Job Coordinated Shutdown

override-server-coordinated-shutdown	override-server-coordinated-shutdown	Override Server Coordinated Shutdown
override-worker-coordinated-shutdown	override-worker-coordinated-shutdown	Override Worker Coordinated Shutdown
register-job-thread-dependency	register-job-thread-dependency	Register Job Thread Dependency
register-server-thread-dependency	register-server-thread-dependency	Register Server Thread Dependency
register-worker-thread-dependency	register-worker-thread-dependency	Register Worker Thread Dependency
run-job-failure	run-job-failure	Run Job Failure
server-logs	server-logs	Server Logs
server-metrics-batch	server-metrics-batch	Server Metrics Batch
server-started	server-started	Server Started
server-starting	server-starting	Server Starting
server-stopping	server-stopping	Server Stopping
server-thread-state	server-thread-state	Server Thread State
server-worker-comms-error	server-worker-comms-error	Server Worker Comms Error
shutdown-jobs	shutdown-jobs	Shutdown Jobs
shutdown-worker	shutdown-worker	Shutdown Worker
system-shutdown	system-shutdown	System Shutdown
update-upstream-sync-for-job	update-upstream-sync-for-job	Update Upstream Sync For Job
update-upstream-sync-for-worker	update-upstream-sync-for-worker	Update Upstream Sync For Worker
update-variable	update-variable	Update Variable
user-alert	user-alert	User Alert
user-generated	user-generated	User Generated
user-notification	user-notification	User Notification
worker-command-for-job	worker-command-for-job	Worker Command For Job
worker-auth-lease-ack	worker-auth-lease-ack	Worker Auth Lease Ack
worker-connected	worker-connected	Worker Connected
worker-created	worker-created	Worker Created
worker-debug-heart-beat	worker-debug-heart-beat	Worker Debug Heart Beat
worker-error	worker-error	Worker Error
worker-first-seen	worker-first-seen	Worker First Seen
worker-heart-beat	worker-heart-beat	Worker Heart Beat

<code>worker-logs</code>	<code>worker-logs</code>	Worker Logs
<code>worker-metrics-batch</code>	<code>worker-metrics-batch</code>	Worker Metrics Batch
<code>worker-offline</code>	<code>worker-offline</code>	Worker Offline
<code>worker-requests-auth-lease</code>	<code>worker-requests-auth-lease</code>	Worker Requests Auth Lease
<code>worker-server-comms-error</code>	<code>worker-server-comms-error</code>	Worker Server Comms Error
<code>worker-settings</code>	<code>worker-settings</code>	Worker Settings
<code>worker-shutdown</code>	<code>worker-shutdown</code>	Worker Shutdown
<code>worker-shutting-down</code>	<code>worker-shutting-down</code>	Worker Shutting Down
<code>worker-started</code>	<code>worker-started</code>	Worker Started
<code>worker-state-uuid</code>	<code>worker-state-uuid</code>	Worker State Uuid
<code>worker-stopping</code>	<code>worker-stopping</code>	Worker Stopping
<code>worker-suspicious-silence</code>	<code>worker-suspicious-silence</code>	Worker Suspicious Silence
<code>worker-system-information</code>	<code>worker-system-information</code>	Worker System Information
<code>worker-thread-state</code>	<code>worker-thread-state</code>	Worker Thread State
<code>worker-updated</code>	<code>worker-updated</code>	Worker Updated
<code>worker-modified</code>	<code>worker-modified</code>	Worker Modified
<code>worker-removed</code>	<code>worker-removed</code>	Worker Removed
<code>context-changed</code>	<code>context-changed</code>	Context Changed
<code>rerender-deployment</code>	<code>rerender-deployment</code>	Rerender Deployment
<code>job-killed</code>	<code>job-killed</code>	Job Killed
<code>message-serviced</code>	<code>message-serviced</code>	Message Serviced
<code>failed-to-service-message</code>	<code>failed-to-service-message</code>	Failed To Service Message
<code>worker-wants-initial-settings</code>	<code>worker-wants-initial-settings</code>	Worker Wants Initial Settings
<code>worker-wants-initial-settings-reply</code>	<code>worker-wants-initial-settings-reply</code>	Worker Wants Initial Settings Reply
<code>worker-wants-deployed-jobs</code>	<code>worker-wants-deployed-jobs</code>	Worker Wants Deployed Jobs
<code>worker-wants-deployed-jobs-reply</code>	<code>worker-wants-deployed-jobs-reply</code>	Worker Wants Deployed Jobs Reply
<code>worker-wants-job-configuration</code>	<code>worker-wants-job-configuration</code>	Worker Wants Job Configuration
<code>worker-wants-job-configuration-reply</code>	<code>worker-wants-job-configuration-reply</code>	Worker Wants Job Configuration Reply
<code>job-wants-dslir-key</code>	<code>job-wants-dslir-key</code>	Job Wants Dslir Key
<code>job-wants-dslir-key-reply</code>	<code>job-wants-dslir-key-reply</code>	Job Wants Dslir Key Reply

<code>worker-wants-dslir-key</code>	<code>worker-wants-dslir-key</code>	Worker Wants Dslir Key
<code>worker-wants-dslir-key-reply</code>	<code>worker-wants-dslir-key-reply</code>	Worker Wants Dslir Key Reply
<code>job-wants-variables</code>	<code>job-wants-variables</code>	Job Wants Variables
<code>job-wants-variables-reply</code>	<code>job-wants-variables-reply</code>	Job Wants Variables Reply
<code>job-wants-credentials</code>	<code>job-wants-credentials</code>	Job Wants Credentials
<code>job-wants-credentials-reply</code>	<code>job-wants-credentials-reply</code>	Job Wants Credentials Reply
<code>job-wants-credentials-error</code>	<code>job-wants-credentials-error</code>	Job Wants Credentials Error
<code>job-wants-secret-variables-reply</code>	<code>job-wants-secret-variables-reply</code>	Job Wants Secret Variables Reply
<code>job-credentials-invalidated</code>	<code>job-credentials-invalidated</code>	Job Credentials Invalidated
<code>aggregator-health</code>	<code>aggregator-health</code>	Aggregator Health
<code>worker-aggregator-health</code>	<code>worker-aggregator-health</code>	Worker Aggregator Health
<code>worker-verification-token</code>	<code>worker-verification-token</code>	Worker Verification Token
<code>worker-requests-verification-token</code>	<code>worker-requests-verification-token</code>	Worker Requests Verification Token
<code>runtime-artifact-update</code>	<code>runtime-artifact-update</code>	Runtime Artifact Update
<code>runtime-artifact-update-ack</code>	<code>runtime-artifact-update-ack</code>	Runtime Artifact Update Ack
<code>runtime-artifact-clear</code>	<code>runtime-artifact-clear</code>	Runtime Artifact Clear
<code>runtime-artifact-clear-ack</code>	<code>runtime-artifact-clear-ack</code>	Runtime Artifact Clear Ack
<code>runtime-artifact-fetch</code>	<code>runtime-artifact-fetch</code>	Runtime Artifact Fetch
<code>runtime-artifact-fetch-reply</code>	<code>runtime-artifact-fetch-reply</code>	Runtime Artifact Fetch Reply
<code>runtime-artifact-fetch-error</code>	<code>runtime-artifact-fetch-error</code>	Runtime Artifact Fetch Error