



# Jobs

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This sections contains the following topics:

- [Jobs, on page 1](#)

## Jobs

After completing the instructions described in Initial setup, you are ready to start executing workflows.

In the CWM application, a particular execution of workflow definition is called a job, and by following guidelines in this chapter, you can:

- start a job immediately, or
- create a schedule to run planned jobs in the future.

## Run job

This section explains how to run a job (workflow execution) via CWM.

**Prerequisites:** A workflow definition stored in CWM and listed in the **All Workflows** tab; uploaded adapter(s) with workers.

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**Step 1** In CWM, go to the **Workflows** -> **All Workflows** tab. Select the workflow you want to execute and click **Run** under the Actions column.

*Figure 1: Run job button*

**CISCO** Crosswork Workflow M

Workflows

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## Workflows

All workflows

### All Workflows

Edit tags Export selected Delete

<input type="checkbox"/>	Workflow definition n...	Definition ID
<input type="checkbox"/>	Test workflow	468234fb-9a62-
<input type="checkbox"/>	Demo NSO workflow	8d90c06f-29f4-4

- Step 2** In the **Run job** modal, insert the initial workflow data input in the Input variables field.
- Step 3** By default, your job's name is the same as your workflow definition, but you can change it in the Job name field.
- Step 4** Optionally, you can assign tags to your job. To insert more than one tag, separate them with a comma.
- Note** Tags are case-sensitive. Once added to the job, you cannot edit them.
- Step 5** Leave the radio button *Start directly* selected to run your job immediately. If you want to create a schedule for the future run, follow the Schedule Job instructions.
- Step 6** Click **Run job** to start the workflow execution.

*Figure 2: Run job*

## Check job status

**Step 1** Go to the **Job Manager** -> **All Jobs** tab.

**Step 2** In the **All jobs** table, find your job and check the status of the workflow execution in the Status column.

- a) If the workflow was executed correctly, a green round icon with the tick and the status *Completed* is displayed.
- b) If the workflow execution is still in progress or the workflow engine is retrying an action, a blue round icon with three dots and the status *Running* is displayed.
- c) If the workflow execution fails, a red round icon with the exclamation mark and the status *Failed* is displayed.

## Check job result

**Step 1** Click the job name to enter its details.

**Step 2** In the **Job Event Log** table, you can expand every event entry by clicking on the `material-plus-box-outline` icon.

**Step 3** To check the result of the execution, expand the **WorkflowExecution** entry at the bottom of the table. Depending on the result, the Job Event Type may differ, for example: `WorkflowExecutionCompleted` or `WorkflowExecutionFailed`.

## Check parent-child workflow relation

### Identify child workflow runs

If a job run has been triggered as a child workflow, its job name is created following the schema below:

*parent\_job\_run\_name*. + *child\_workflow\_def\_name*. + *child\_workflow def\_version*.

For example, if a parent job run name is "Parent", and the child workflow definition name is "Child", the job run executed as child workflow is named "Parent.Child.1.0".

### Find child workflow runs from the Job Event Log

If a given job run triggers child workflow executions, you can check them under the **Job Even Log** table of the parent run.

**Step 1** Click the job name to enter its details.

**Step 2** In the **Job Event Log** table, under the Job Event Type entry, search for the `ChildWorkflowExecutionStarted` or `ChildWorkflowExecutionCompleted` entry. Click on its Job Event Name – you will get redirected to the job details page of this child workflow execution.

*Figure 3: Child workflow event log*

## Job Event Log

Job Event Name	Job Event Type
<input type="text"/>	<input type="text"/>
<input type="checkbox"/> WorkflowExecution	WorkflowExecutionStarted
<input type="checkbox"/> WorkflowTask	WorkflowTaskCompleted
<input type="checkbox"/> MarkerRecorded	MarkerRecorded
<input type="checkbox"/> UpsertWorkflowSearchAttribute	UpsertWorkflowSearchAttribute
<input type="checkbox"/> MarkerRecorded	MarkerRecorded
<input type="checkbox"/> Parent.Child.1.0 (sync)	StartChildWorkflowExecutionIn
<input checked="" type="checkbox"/> Parent.Child.1.0 (sync)	ChildWorkflowExecutionStarte
<input type="checkbox"/> WorkflowTask	WorkflowTaskCompleted
<input checked="" type="checkbox"/> Parent.Child.1.0 (sync)	ChildWorkflowExecutionComp
<input type="checkbox"/> WorkflowTask	WorkflowTaskCompleted
<input type="checkbox"/> WorkflowExecution	WorkflowExecutionCompleted



**Step 3** On the child job **Details** page, besides standard fields, you can find the Parent Run ID that redirects to the details of the parent job run.

*Figure 4: Parent run ID*

**Note** Child workflow runs do not inherit the parent job run tags.

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## Rerun job

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**Step 1** Go to the **Job Manager** -> **All jobs** tab.

**Step 2** In the **All jobs** table, find a job that you want to rerun and click the **Rerun** button in the same row under the Actions column.

Figure 5: Rerun job button

**Job Manager**

Active jobs | Completed jobs | Cancelled jobs | Sche

**Active jobs**

Export selected | Cancel selected

<input type="checkbox"/>	Job name	Run ID
<input type="checkbox"/>	[object Object]	8d841c56-ce4c
<input type="checkbox"/>	My test workflow	c6b2cc92-d8d7
<input type="checkbox"/>	Jays Birthday Party	e89ce9d0-1ef8

**Step 3** In the **Rerun job** modal, you can edit the Job name, Tags and Input variables (data input) or use the same values from the previous run.

*Figure 6: Rerun job*

**Step 4** Click **Run job**.

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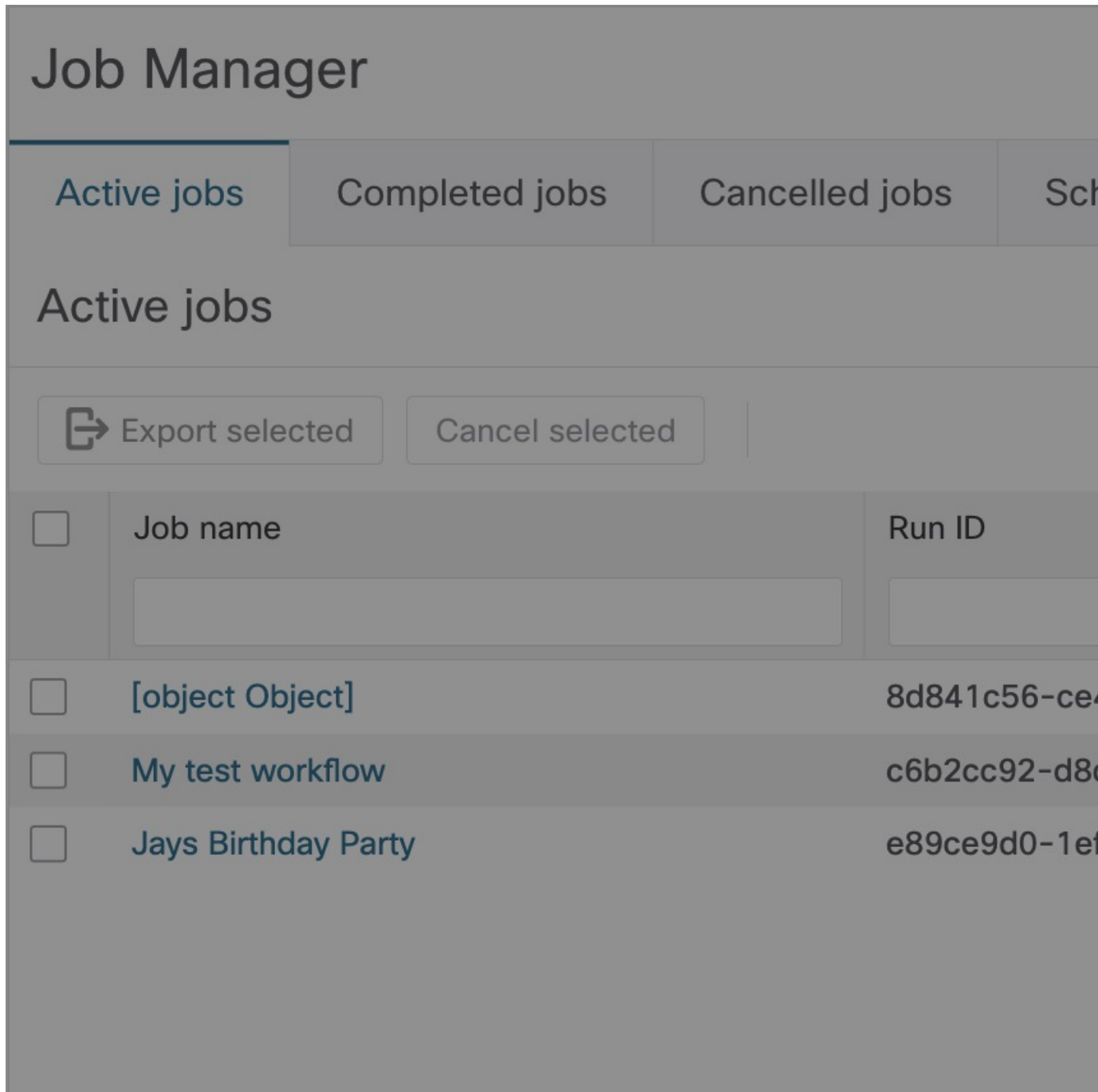
## Cancel job

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**Step 1** Go to the **Job Manager** -> **Active jobs** tab.

**Step 2** In the **Active jobs** table, find a job that you want to cancel and click the **Cancel** button in the same row under the **Actions** column.

Figure 7: Cancel job button



**Step 3** In the **Cancel job** modal, you can enter an optional Reason for cancelling.

**Step 4** Tick **Force terminate** checkbox if you want to cancel the running job immediately. If you leave this checkbox unticked, the workflow worker will complete the ongoing task execution from the workflow definition and then cancel the job.

*Figure 8: Cancel Job*



**Step 5** Click **Cancel Job**. **Details** tab.

**Note** You can cancel the job also from the job's **Details** tab.

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## Schedule job

This section explains how to schedule a single job run (workflow execution) or recurring runs that are invoked in the future.

**Prerequisites:** A workflow definition added to CWM and listed in the **All Workflows** tab; uploaded adapter(s) with workers.

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**Step 1** In CWM, go to the **Workflows** -> **All Workflows** tab. Select the workflow you want to schedule and click **Run** under the Actions column.

*Figure 9: Run Job Button*

CISCO Crosswork Workflow M

Workflows

Home / Workflows

## Workflows

All workflows

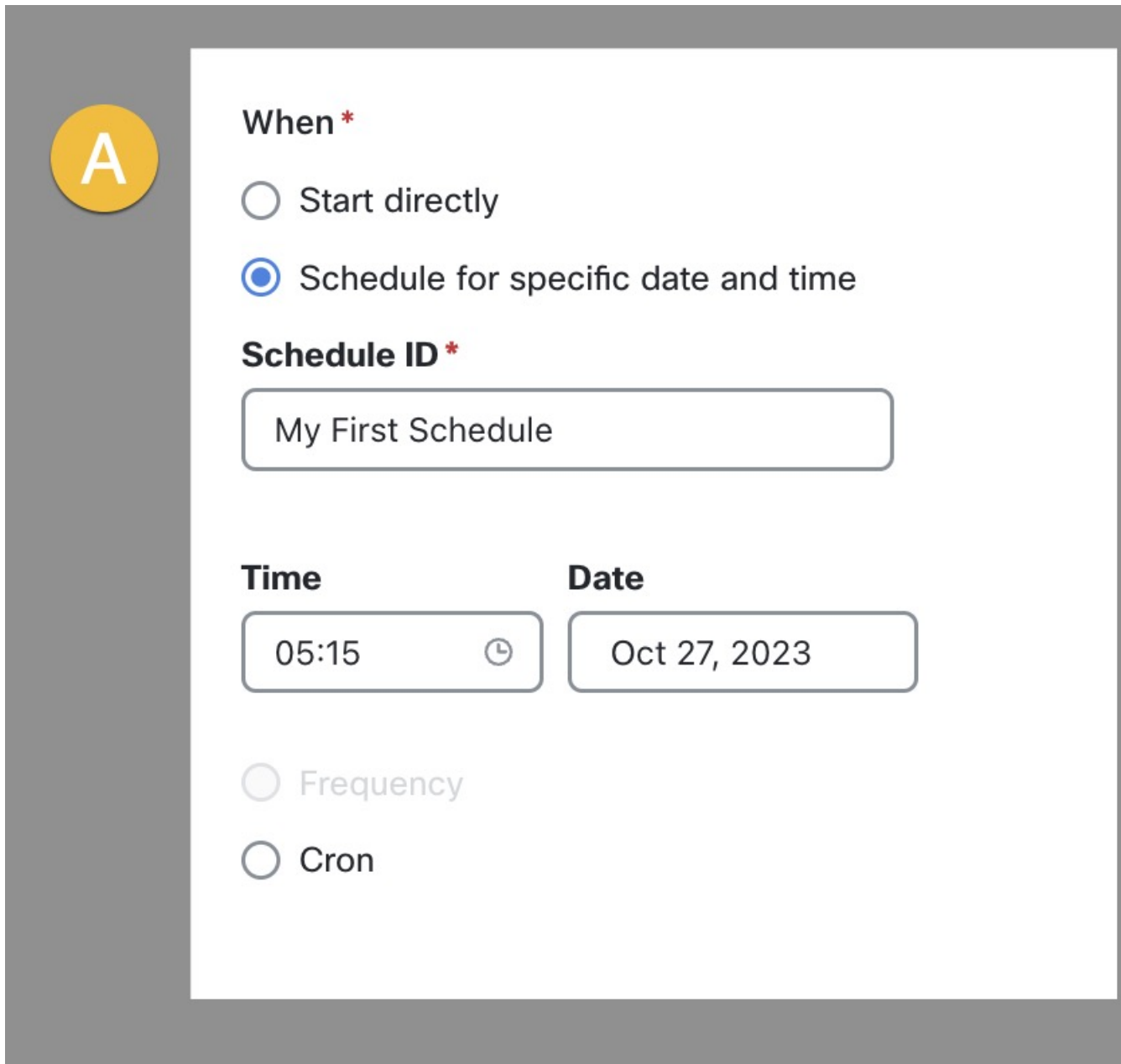
### All Workflows

Edit tags Export selected Delete

<input type="checkbox"/>	Workflow definition n...	Definition ID
<input type="checkbox"/>	Test workflow	468234fb-9a62-
<input type="checkbox"/>	Demo NSO workflow	8d90c06f-29f4-4

- Step 2** In the **Run job** modal, insert the initial workflow data input in the Input variables field. Each scheduled run of a workflow receives identical input variables.
- Step 3** By default, your job name is the same as your workflow definition name, but you can change it in the Job name field.
- Step 4** Optionally, you can assign tags to your scheduled job(s). To insert more than one tag, separate them with a comma. All jobs in the schedule will have the same tags set.
- Step 5** Choose one scheduling option depending on whether you planned a single run in the future or a recurring series of runs.
- A) **Schedule for specific date and time**: pick a specific time and date for a single run.
  - B) **Cron**: set recurring runs based on cron expressions.

*Figure 10: Schedule type*



The screenshot shows a configuration modal for scheduling a job. On the left, there is a yellow circular icon with the letter 'A'. The main content area is titled 'When \*' and contains two radio button options: 'Start directly' (unselected) and 'Schedule for specific date and time' (selected). Below these options is a text input field labeled 'Schedule ID \*' containing the text 'My First Schedule'. Underneath, there are two columns: 'Time' and 'Date'. The 'Time' field contains '05:15' and has a clock icon to its right. The 'Date' field contains 'Oct 27, 2023'. At the bottom, there are two more radio button options: 'Frequency' (unselected) and 'Cron' (unselected).

**Note** Schedule type based on frequency is disabled in the CWM 1.1 UI, but it's available via CWM API.

**Step 6** Type a unique name for your schedule in the Schedule ID field.

**Step 7** Click **Schedule Job** to schedule the workflow execution(s).

*Figure 11: Schedule job*

**Note** "Overlap policy": By default, the schedule overlap policy prevents overlapping runs in one schedule. If the previous job from a given schedule is still executed when it is time to start the next scheduled job, the next run will be skipped. If you want to allow overlapping runs, you can change the overlap policy via CWM API.

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## Check scheduled jobs

All schedules are displayed under the **Scheduled jobs** tab.

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**Step 1** Go to the **Job Manager** -> **Scheduled jobs** tab.

**Step 2** In the **Scheduled jobs** table, you can find all the schedules with details:

- a) A) **Schedule ID**: unique identifier for every schedule
- b) B) **Job Name**: name of the scheduled workflow execution; shared between all runs in a schedule
- c) C) **Workflow Definition**: name of the workflow definition used to run a scheduled job(s)
- d) D) **Next scheduled run**: the date and time of the next upcoming run in the schedule, for example 05-May-2023 03:59:25 PM CEST
- e) E) **Type**: indicates whether the scheduled run is planned once in the future (*Specific date and time*), whether there are recurring runs (*Cron*) or recurring runs based on frequency (*Frequency*).
- f) F) **Job tags**: keyword(s) assigned to the scheduled job run
- g) G) **Workflow tags**: keyword(s) assigned to the workflow definition used for that planned run plus its version
- h) H) **Actions**: displays possible actions for the schedule - in CWM 1.1, only **Delete** is available in CWM UI When the scheduled job is executed, it will show in the **Active jobs** tab; when completed, it will display in the **Completed jobs** tab.

Figure 12: Schedule jobs tab

The screenshot shows the Cisco Crosswork Workflow Manager interface. On the left is a dark blue sidebar with three main sections: 'Workflows' (with a tree icon), 'Job Manager' (with a list icon), and 'Admin' (with a person and gear icon). The main content area has a light gray header with the Cisco logo and the text 'Crosswork Workflow M'. Below the header is a breadcrumb trail: 'Home / Job Manager'. The main title is 'Job Manager'. There are three tabs: 'Active jobs', 'Completed jobs', and 'Cancelled jobs'. The 'Scheduled jobs' tab is active. Below the tabs are two buttons: 'Export selected' (with a right-pointing arrow icon) and 'Delete selected' (with a trash can icon). Below these buttons is a table with two columns: 'Schedule ID' and 'Job name'. The first row has a checkbox on the left, followed by a text input field under 'Schedule ID' and another text input field under 'Job name'. The second row has a checkbox on the left, followed by the text 'New schedule' under 'Schedule ID' and 'Parent' under 'Job name'. Two yellow circular callouts with white letters 'A' and 'B' are overlaid on the interface. Callout 'A' is positioned over the 'Export selected' button. Callout 'B' is positioned over the 'Delete selected' button.



**Note** A created schedule does not have an expiration date. It means that you can update the schedule anytime and retrieve some of its details. A schedule is displayed on the **Scheduled job** table even if it contains only one scheduled job for a specific date and time that has already been executed. If you don't want the schedule to be displayed anymore in the list, you need to delete it.

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## Delete schedule

You can delete a whole schedule via CWM UI. This process will delete all future planned jobs in a schedule, but will not terminate or affect a job that is already in execution. Already started scheduled workflow execution can be canceled using the Cancel Job action.

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**Step 1** Go to the **Job Manager** -> **Scheduled Jobs** tab.

**Step 2** In the **Scheduled Jobs** table, find a schedule that you want to delete and click the **Delete** button in the same row under the Actions column.

Figure 13: Delete schedule

