Install Applications

This chapter details the installation steps for the Crosswork Workflow Manager and CWM Solutions CAPPs.

Install the Crosswork Workflow Manager CAPP

Once you have deployed Crosswork on a VMware or KVM virtual machine, you can install the Crosswork Workflow Manager (CWM) application, which is distributed as a Crosswork CAPP.

Before you begin

Ensure that you have deployed Crosswork successfully on your VMware or KVM host. To verify that Crosswork is installed and functional, log in to Crosswork using an administrative ID at `https://CrossworkIP:30603/`, where `CrossworkIP` is the IP address on the virtual machine where Crosswork was installed.

⚠️

Attention   The download file names given in this topic are subject to change. You can always find the latest versions by pointing your browser to https://software.cisco.com/download/home and searching for **Crosswork Workflow Manager 2**.

Procedure

Step 1   On a remote host accessible by HTTP, HTTPS or SCP from your Crosswork VM host, create a storage directory to contain the download you will use in this procedure.

Step 2   From https://software.cisco.com/download/home, download to the remote host the Crosswork Workflow Manager file appropriate for the VM deployment you chose:

- For a VMware deployment: `cw-na-cwm-2.1.0-20-releasecwm210-260124-ova.signed.bin`

- For a KVM deployment: `cw-na-cwm-2.1.0-20-releasecwm210-260124-qcow2.signed.bin`

Step 3   Use the following command to extract the `tar.gz` installer bundle from the appropriate `signed.bin` file:

```
sh cw-na-cwm-2.1.0-20-releasecwm210-260124-ova.signed.bin
```

or

```
sh cw-na-cwm-2.1.0-20-releasecwm210-260124-qcow2.signed.bin
```

The contents of the installer bundle and files necessary to validate the image are extracted to the same directory on the remote host.

Step 4   Use the following command to extract the `tar.gz` installer bundle:

```
tar -vxf cw-na-cwm-2.1.0-20-releasecwm210-260124-ova.tar.gz
```

or

```
tar -vxf cw-na-cwm-2.1.0-20-releasecwm210-260124-qcow2.tar.gz
```

The contents of the installer bundle and files necessary to validate the image are extracted to the same directory on the remote host.

Step 5   Log in to Crosswork using an admin ID and select **Administration** > **Crosswork Manager** > **Application Management**.

Step 6   Click **Add new file** and select **Upload CAPP file (.tar.gz)**.

Step 7   Using the **Add File (.Tar.Gz)** page, first select the **Protocol** you want to use to add the CWM CAPP file to the system. Then:

    a) If you selected **URL**: Enter the **URL** for the remote host where the CAPP file is stored (including the path to the `tar.gz` file).

    b) If the **Basic Auth** checkbox is selected, enter the **Username** and **Password** needed to access the remote host.

    c) If you selected **SCP**: Enter the file's **Server path/Location** on the remote host, the remote host server's **Host name/IP address**, the **Port**, and the login **Username** and **Password**.

Step 8   Click **Add**. You can select the **Job History** option to monitor the progress of the CAPP file upload.

Step 9   When the upload completes, the **Workflow Manager** tile appears on the **Applications** page, indicating that the application is ready to install.

Step 10   Click the **More** icon (three dots) on the **Workflow Manager** tile to display the **Workflow Manager** installation pop up, then click **Install**. When installation is complete, the **Applications Management** > **Job History** tab should display an "Activation Successful" message.

Step 11   Verify successful installation by choosing **Administration** > **Crosswork Manager** > **Crosswork Health** > **Workflow Manager**. The **Microservices** tab displays the microservices, all with **Healthy** showing in the **Status** column.

Install the CWM Solutions CAPP

Once you have installed CWM, you can install CWM-S.

Before you begin

Ensure that you have already installed Crosswork Workflow Manager (CWM), as explained in Install the Crosswork Workflow Manager CAPP, on page 1. If you have done this, you will find the Crosswork Workflow Manager Solutions (CWM-S) installer bundle extracted to the same directory on the remote host where you extracted the Crosswork Workflow Manager (CWM) CAPP installer bundle.

Procedure

Step 1   From https://software.cisco.com/download/home, download to the remote host the Crosswork Workflow Manager file appropriate for the VM deployment you chose:

- For a VMware deployment: `cw-na-cwm-sol-2.1.0-21-releasecwms210-260124-ova.signed.bin`

- For a KVM deployment: `cw-na-cwm-sol-2.1.0-21-releasecwms210-260124-qcow2.signed.bin`

Step 2   Use the following command to extract the `tar.gz` installer bundle from the appropriate `signed.bin` file:

```
sh cw-na-cwm-sol-2.1.0-21-releasecwms210-260124-ova.signed.bin
```

or

```
sh cw-na-cwm-sol-2.1.0-21-releasecwms210-260124-qcow2.signed.bin
```

The contents of the installer bundle and files necessary to validate the image are extracted to the same directory on the remote host.

Step 3   Use the following command to extract the `tar.gz` installer bundle:

```
tar -vxf cw-na-cwm-sol-2.1.0-21-releasecwms210-260124-ova.tar.gz
```

or

```
tar -vxf cw-na-cwm-sol-2.1.0-21-releasecwms210-260124-qcow2.tar.gz
```

The contents of the installer bundle and files necessary to validate the image are extracted to the same directory on the remote host.

Step 4   Log in to Crosswork using an admin ID and select **Administration** > **Crosswork Manager** > **Application Management**.

Step 5   Click **Add new file** and select **Upload CAPP file (.tar.gz)**.

Step 6   Using the **Add File (.Tar.Gz)** page, first select the **Protocol** you want to use to add the CWM Solutions CAPP file to the system. Then:

a) If you selected **URL**: Enter the **URL** for the remote host where the CAPP file is stored (including the path to the `tar.gz` file).

b) If the **Basic Auth** checkbox is selected, enter the **Username** and **Password** needed to access the remote host.

c) If you selected **SCP**: Enter the file's **Server path/Location**, the server's **Host name/IP address**, **Port**, and the login **Username** and **Password**.

Step 7   Click **Add**. You can select the **Job History** option to monitor the upload while it proceeds.

Step 8   When the addition completes, the **Workflow Manager Solutions** tile appears on the **Applications** page at the far right, next to the **Workflow Manager**tile, indicating that the **Workflow Manager Solutions** application is ready to install.

Step 9   Click the **More** icon (three dots) on the **Workflow Manager Solutions** tile to display the installation pop up menu, then click **Install**.

Step 10   When installation is completed, the **Application Management** > **Job History** tab should display an "Activation of application Workflow Manager Solutions Successful" message.

Step 11   Choose **Administration** > **Crosswork Manager** > **Crosswork Health** > **Workflow Manager Solutions**. The **Microservices** tab should display that the CWM Solutions microservices are in a **Healthy** state.

Workflow Manager Solutions

Health status	Healthy		Publisher	Cisco
Availability	Not protected		Version	2.1.0-rc.14+build.21
Recommendation	None		Build date	Jan-24-2026
Description	Manage & execute Fleet Upgrade, Golden Configuration, Device Migration, and extensible custom use cases through MOPs.		App status	Active

Showtech options

Application actions

Microservices   Alarms

Filtered 0 / Total 6

Status	Type	Name	Current version	Up time	Recommendation	Description	Actions
Healthy	Static	cwm-solutions-automation	2.1.0-rc.1	1h 22m 34s	None		...
Healthy	Static	cwm-solutions-gc	2.1.0-rc.1	1h 21m 58s	None		...
Healthy	Static	cwm-solutions-imagerepo	2.1.0-rc.1	1h 21m 50s	None		...
Healthy	Static	cwm-solutions-mop	2.1.0-rc.1	1h 21m 21s	None		...
Healthy	Static	cwm-solutions-fleetupgrade	2.1.0-rc.1	1h 23m 12s	None		...
Healthy	Static	cwm-solutions-inventory	2.1.0-rc.1	1h 22m 58s	None		...

Step 12   Finally, CWM Solutions will add three dynamic service pods to CWM. These are worker pods for the three CWM adapters that CWM Solutions installed automatically. You will find them under **Administration** > **Crosswork Manager** > **Crosswork Health** > **Workflow Manager** (not under Workflow Manager Solutions).

11 Static	**3** Dynamic

Filtered 0 / Total 3

Status	Type	Name	Current version	Up time	Recommendation	Description	Act
Healthy	Dynamic	cwm-worker-1761174998182147157	1.0.0	18h 38m 41s	None		
Healthy	Dynamic	cwm-worker-1761175119537476624	1.0.0	18h 37m 56s	None		
Healthy	Dynamic	cwm-worker-1761175240834200223	1.0.0	18h 37m 13s	None		