Install CWM using OVA

This section contains the following topics:

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The Crosswork Workflow Manager 1.0 is installed as a guest virtual machine by deploying an OVA image using the vSphere vCenter 7.0 virtualization platform.

Prerequisites

• vSphere vCenter 7.0 account with an ESXi 7.0 host.

Download CWM package

Before you begin

To get the Crosswork Workflow Manager 1.0 software package:

Step 1   Go to the Cisco Software Download service and in the search bar, type in '**Crosswork Workflow Manager**', then select it from the search list.

Step 2   From Select a software type, select **Crosswork Workflow Manager Software**.

Step 3   Download the Crosswork Workflow Manager software package for Linux.

Step 4   In a terminal, run the self-extracting signed binary. This extracts the `cwm-1.0.tar.gz` file and validates using the signature file.

Step 5   To extract the `cwm-1.0.tar.gz` file, double click on it (Mac users) or use gzip utility (Linux and Windows users). This will extract the CWM OVA file.
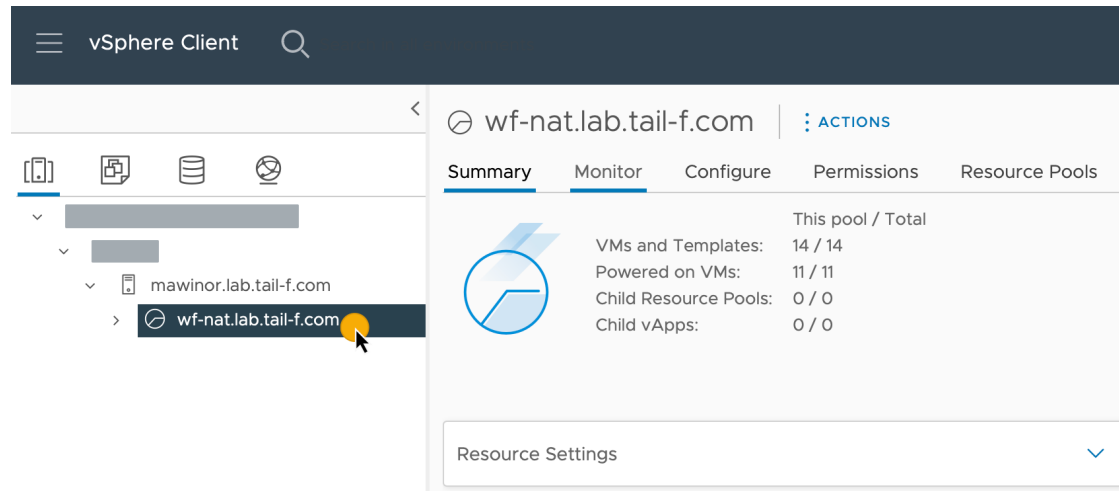
Deploy OVA and start VM

To create a virtual machine using the downloaded OVA image:

Step 1   Log in to your vSphere account.
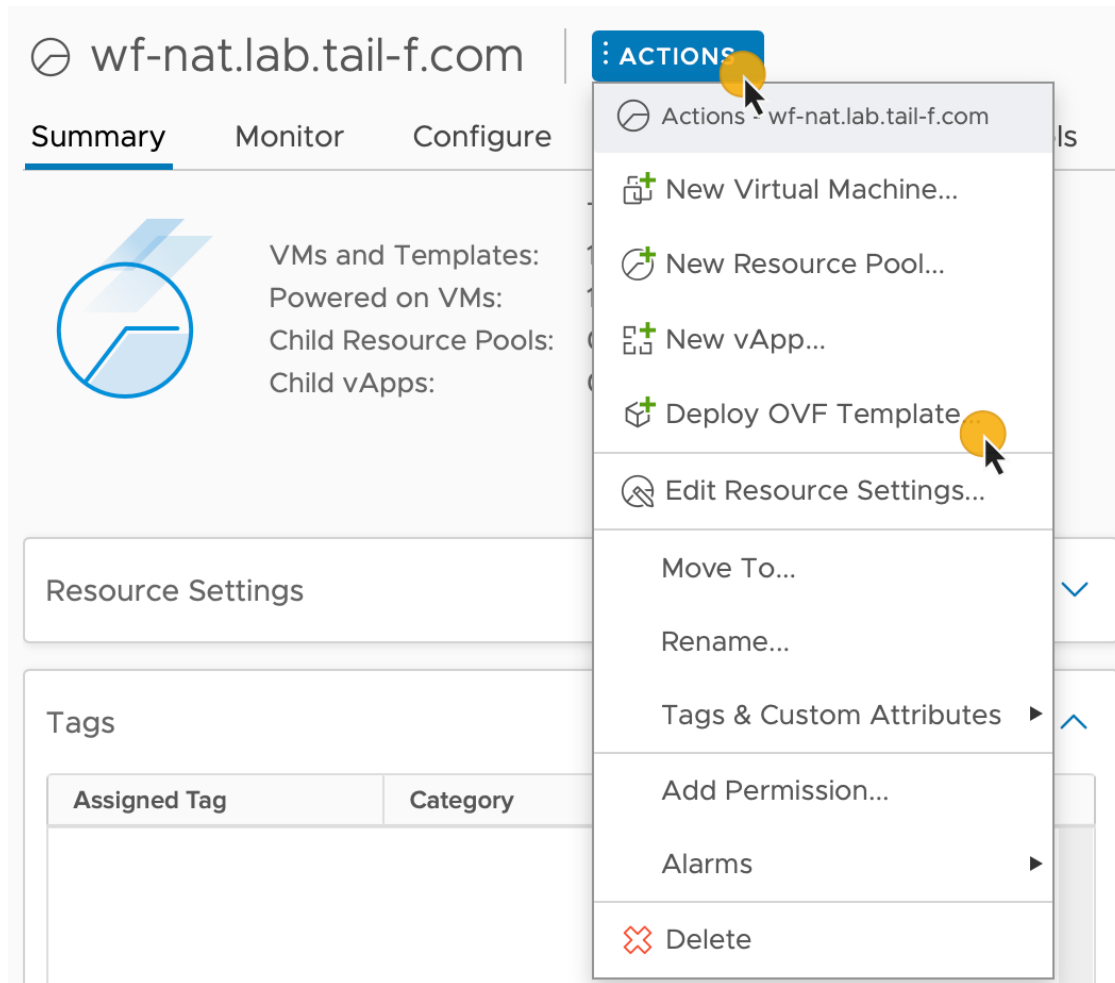
Step 2   In the **Hosts and Clusters** tab, expand your host and select your resource pool.

Figure 1: Resource pool

Step 3   Click the **Actions** menu and select **Deploy OVF Template**.

Figure 2: Deploy OVF template

Step 4   In the **Select an OVF template** step, click **Local file**, **Select files**, and select the CWM OVA image. Click **Next**.

Step 5   In the **Select a name and folder** step, provide a name for your VM and select it's location. Click **Next**.

Step 6   In the **Select a compute resource** step, select your resource pool. Click **Next**.

Step 7   In the **Review details** step, click **Next**.

Step 8   In the **Select storage** step, set **Select virtual disk format** to **Thin provision** and select your storage, then click **Next**.

Step 9   In the **Select network** step, you need to select destination networks for the **Control Plane** and **Northbound**:

   a) **Note**   Control plane settings are essential only in case of an HA cluster setup. For single-node setups, control
                        plane settings need to be provided, but are not essential and should not conflict with any other devices
                        connected to the control network.

       Control Plane: select **PrivateNetwork**. If not available, select **VM Network**.

   b) **Northbound**: select **VM Network**.

   c) Click **Next**.

Step 10   In the **Customize template** step, provide the following selected properties:

   a) **Instance Hostname**: type a name for your instance.

b) **SSH Public Key**: provide an SSH public key used for command-line access to the VM.

c) **Control Plane Node Count**: change to more than 1 only in case of HA cluster setup. Not supported for CWM version 1.0.

d) **Control Plane IP**: provide a network address for the control plane. This address cannot conflict with any other devices in the control network, but is otherwise inessential in a single-node setup.

e) **Initiator IP**: set the initiator IP for the starter node. In a single-node setup, it is the same address as *Control Plane IP**.

f) **IP (if not using DHCP)**: provide the network address for the node.

g) **Gateway (if not using DHCP)**: provide the gateway address. By default, it is `192.168.1.1.`

h) **DNS**: provide the address for the DNS. By default, it is `8.8.8.8`, or you can use your local DNS.

i) **Northbound Virtual IP**: provide the network address for the active cluster node. In a single-node setup this address is also required, as this is where the HTTP service is working.

j) Click **Next**.

Figure 3: Customize template

Step 11 In the **Ready to complete**, click **Finish**. The deployment may take a few minutes.

Step 12 From the **Resource pool** list, select you newly created virtual machine and click the **Power on** icon.

Figure 4: Power on VM
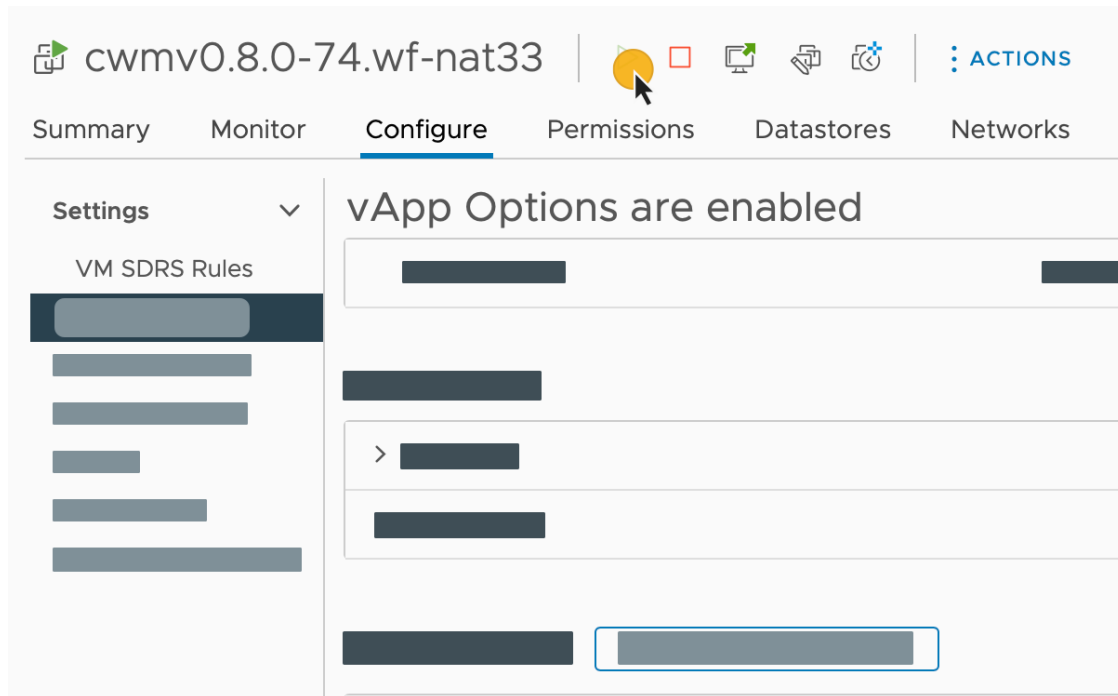
Note	If the VM doesn't power on successfully, this might be due to an intermittent infrastructure error caused by NxF. As a workaround, remove the existing VM and redeploy the OVA on a new one.

Create user

You can create CWM platform user accounts using the command-line access to the VM. Here's how to do it:

Step 1 Using a command-line terminal, log in to the NxF in your guest OS with SSH:

```
ssh -o UserKnownHostsFile=/dev/null  -p 22  nxf@<your_resource_pool_address>
```

Note The default port for SSH is `22`, change it to your custom port if applicable.

a) Optional: If you are logging in for the first time, provide the path name for your private key:

```
ssh -i <your_ssh_private_key_name_and_location> nxf@<your_resource_pool_address>
```

Step 2 To create a user, run the following command:

```
echo -en "test" | sedo security user add --password-stdin --access permission/admin --display-name
Tester test
```

Step 3 Go to the address that you selected for your node and default port `8443`. For example, https://wf.lab.cisco.com:8443/.

Step 4 Log in using the `test` username and password.

Figure 5: Log in