

# **Install CWM using OVA**

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## Install CWM using OVA

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

$\equiv$ vSphere Client $ extsf{Q}$		
<ul><li>(1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2</li></ul>	O     Wf-nat.lab.tail-f.com     : Астюмя       Summary     Monitor     Configure     Permissions     Resource Permissions	pols
<ul> <li>mawinor.lab.tail-f.com</li> <li>Ø wf-nat.lab.tail-f.com</li> </ul>	This pool / Total VMs and Templates: 14 / 14 Powered on VMs: 11 / 11 Child Resource Pools: 0 / 0 Child vApps: 0 / 0	
	Resource Settings	~

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

#### Figure 2: Deploy OVF template

⊘ wf-nat.lab.tail-f.com				
Summary	Monitor	Configure	Actions wf-nat.lab.tail-f.com	ls
			Et New Virtual Machine	
$\square$	VMs and Templates:	New Resource Pool		
	Child Re	Child Resource Pools: ( 📑 New vApp		
	Child vA	Child vApps:		
			Resource Settings	
Resource Settings			Move To	~
			Rename	
Tags		Tags & Custom Attributes	~	
Assigned Tag Category		Category	Add Permission	
			Alarms	
			🔀 Delete	

- 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

Deploy OVF Template	Customize template		×
1 Select an OVF template	Instance Hostname	cwm_01	
2 Select a name and folder	SSH Public Key	ssh-rsa <u>AAAAB3NzaC1yc2</u>	
3 Select a compute resource	Data Volume Size (GB)	50 <del>©</del>	
4 Review details	Cluster Join Token	svmamd.vsp3lixn3w414gk:	
5 Select storage	Control Plane Node Count	1	
6. Select petworks	Control Plane IP	10.1.0.109	
6 Select hetworks	Initiator IP	10.1.0.109	
7 Customize template		4 settings	
8 Ready to complete	IP (if not using DHCP)	192.168.1.133	
	Gateway (if not using DHCP)	192.168.1.1	
	DNS	8.8.8.8	
	✓ Initiator Config	2 settings	
	Initiator Node		
	Northbound Virtual IP	192.168.1.233	
			CANCEL BACK NEXT

- **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

🔂 cwm	/0.8.0-7	4.wf-nat3	3   🌪 🗆	🛃 🖓 🐼	ACTIONS
Summary	Monitor	Configure	Permissions	Datastores	Networks
Settings	~	vApp Op	otions are e	enabled	
VM SDRS	Rules				

**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 3Go to the address that you selected for your node and default port 8443. For example, https://withab.cisco.com.8445/.Step 4Log in using the test username and password.

Figure 5: Log in

