



# Install CWM using Docker Installer Tool

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## Install CWM using Docker Installer Tool

The CWM 2.0 is installed on the Cisco Crosswork platform by first deploying the Crosswork OVA file using a Docker image on the VMware vCenter 7.0 (or higher) and then installing the CWM CAPP file using the installation script.

### Prerequisites

- **VMware vCenter Server 7.0** (U3p or later) and **ESXi 7.0** (U3p or later). Refer to the [Crosswork Network Controller 7.0 installation requirements](#) for more details.
- **Docker** version 19 or higher.
- `sshpass` installed. For Mac, you can use `brew install sshpass`.

## Use script to Deploy Crosswork and CWM

### Procedure

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**Step 1** In your Docker-capable machine, create a directory where you will store all the files you will use during this installation.

**Note**

If you are using a Mac, ensure that the directory name is in lower case.

**Step 2** Download the OVA file containing the Crosswork Network Controller package from [cisco.com](#) to the directory you created. It will contain the Crosswork `tar.gz` CAPP file, the CWM `.ova` file, the `install.sh` installation script, the `configuration.json` file and Docker installer image `tar.gz` (along with this instruction).

**Step 3** Import the Docker installer image by running the following command. Be sure to adjust the image name as needed:

```
docker image import <docker-image-name>.tar.gz your-image-name:your-tag
```

**Step 4** Inside the directory, create a `.txt` file and paste the VMware installation template given below. For this instruction, we'll name the file `deployment.tfvars.txt` for example purposes.

```
Cw_VM_Image = "" # Line added automatically by installer.
ClusterIPStack = "IPv4"
DataIPNetmask = "255.255.255.0"
DataIPGateway = "192.168.1.1"
DNS = "DNS"
DomainName = "domain_name"
CWPassword = "your_crosswork_password"
VMSize = "XLarge"
vm_sizes = {
  "xlarge" = {
    vcpus = 24
    cpu_reservation = 24000
    //Memory in Mbytes
    memory = 128000
  }
}
NTP = "ntp.esl.cisco.com"
Timezone = "Europe/Paris"
EnableSkipAutoInstallFeature = "True"
ManagementVIP = "your_mgmt_vip"
ManagementIPNetmask = "255.255.255.0"
ManagementIPGateway = "your_mgmt_gateway"
ThinProvisioned = "true"
DataVIP = "your_data_vip"
CwVMs = {
  "0" = {
    VMName = "your_VM_name",
    ManagementIPAddress = "your_mgmt_ip",
    DataIPAddress = "your_data_ip",
    NodeType = "Hybrid"
  }
}
VCenterDC = {
VCenterAddress = "your_vcenter_address",
VCenterUser = "your_username",
VCenterPassword = "your_password",
DCname = "your_datacenter_name",
MgmtNetworkName = "VM Network",
DataNetworkName = "SVM Data Network"
VMs = [{
  HostedCwVMs = ["0"],
  Host = "your_VM_host",
  Datastore = "your_VM_datastore",
  HSDatastore = "your_VM_hsd datastore"
}]
}
SchemaVersion = "7.1.0"
```

**Note**

Note the difference between your VCenter and Datacenter.

**Step 5** Edit the parameters to match your deployment.

**Note**

To learn more about the installation parameters, please refer to the [Single VM chapter in the Cisco Crosswork Network Controller 7.0 Installation Guide](#).

**Step 6** Inside the directory, create another file named `product.json` file and paste the data below.

```
{
  "product_id": "CWM",
  "attribute": {
    "key1": "value1",
    "key2": "value2"
  }
}
```

**Step 7** Open the `configuration.json` file and provide the following parameters to match your deployment:

```
{
  "SVM_NAME": "your_VM_name",
  "host": {
    "remote_user": "your_username",
    "remote_password": "your_password",
    "remote_host": "your_scp_host",
    "remote_port": "22",
    "capp_file": "/path/to/capp_file.tar.gz"
  },
  "cwm_login": {
    "ip": "your_mgmt_ip",
    "cwm_user": "admin",
    "cwm_old_password": "admin",
    "cwm_password": "your_new_password"
  },
  "deployment": {
    "tfvars_path": "/path/to/deployment.tfvars.txt",
    "ova_file": "/path/to/cwm.ova",
    "product_json": "/path/to/product.json"
  }
}
```

- for `host`, provide the details of the SCP server where your Crosswork CAPP file is located like host address and port, your username and password, and the path to the file.
- for `cwm_login`, provide your management IP and the default Crosswork username and password. In `cwm_password`, provide the new password to replace the default one upon installation completion.
- for `deployment`, provide the local paths to the `deployment.tfvars.txt` created in a previous step, to the CWM OVA file and to the `product.json` file.

**Step 8** From the directory, run the installer script:

```
bash install.sh
```

This will start the installation process for the Crosswork platform and then for CWM once the platform is deployed.

**Step 9** To follow the installation inside the Docker container, run the following command:

```
sudo docker ps -a
```

Copy the ID of the container in which the installation started. Usually its name contains the OVA filename, such as:  
`cw-na-cwm-7.1.0-20-releaseenc710-250512-cwm-59-50`

To see the logs, run:

```
sudo docker logs your_container_id -f
```

**Step 10** Once the installation script is done and the deployment status reaches 100%, go to `http://your_mgmt_vip_address:30603` and log in with the default `admin` user and the password you provided in `configuration.json`.

