Install CWM using Docker Installer Tool

This section contains the following topics:

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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`.

- `jq` installed. For Mac, you can use `brew install jq`.

Use script to Deploy Crosswork and CWM

Procedure

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_hsdatastore"
  }
]
}
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"
    }
}
```

a) 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.

b) 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.

c) 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-releasecnc710-250512-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`.