



**Hewlett Packard**  
Enterprise

# **HPE Operations Manager i**

Software Version: 10.01 IP3

## **Virtual Appliance Deployment Guide**

Document Release Date: 10 November 2015  
Software Release Date: November 2015

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# HPE Operations Manager i 10.01 IP3 Virtual Appliance

The HPE Operations Manager i (OMi) Virtual Appliance contains a pre-installed and pre-configured HPE OMi system and is available as an Open Virtual Appliance (OVA) file that can be deployed to VMware ESX.

## Default Configuration of the HPE OMi Virtual Appliance

### System Details

CPU	4 vCPUs
Memory	12 GB vRAM
Disk	64 GB (52 GB of which is for the data file system)
Swap	8 GB
Operating System	CentOS 6.7 64bit

## Notes and Recommendations

Keep in mind the following notes and recommendations:

- The **System Details** show the default sizing configuration. You can change the configuration using standard VMware tools and procedures.
- The installed operating system is a basic server installation without desktop GUI support. This means that X11 desktop libraries are not available. A minimal set of X11 server libraries is available to allow X11 redirection to the server. The login to the operating system is only possible using the VMware vSphere console, Web Client, or SSH.
- Do not install any other HPE Software products, components, or third-party software products on the virtual appliance instance.
- The installed OMi is configured for up to 2000 nodes, the default small environment. If you want to grow and need to support a large environment, for example a distributed setup, you can copy data from the embedded PostgreSQL database to an external PostgreSQL database and install a different version of OMi. For information, see the OMi Database Guide.
- The database configured with the Virtual Appliance is configured for non-English environments.
- The Virtual Appliance, CentOS, and Management Pack language version is English.

## HPE OMi Virtual Appliance File Format

The Virtual Appliance is available in the Open Virtual Appliance (OVA) file format.

Download the OVA file to a local directory on your computer. Make sure that you have at least 10 GB of available disk space in this directory.

The OVA file is now available and you can start further actions.

Along with the OVA file, a signature file holding an additional `.sig` suffix is provided. In order to validate the signature, follow the instructions available at [HPE GPG or RPM Signature Verification](#) (<https://h20392.www2.hp.com/portal/swdepot/displayProductInfo.do?productNumber=HPLinuxCodeSigning>).

**Note:** Windows users need to download and install [Gpg4win](http://gpg4win.org/download.html) (<http://gpg4win.org/download.html>) in order to successfully complete the HPE GPG Signature Verification.

## Deploying the Virtual Appliance

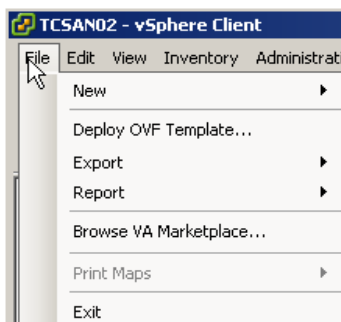
Use one of the following methods to deploy the Virtual Appliance:

- ["Deploying from the VMware vSphere Console" below](#)
- ["Deploying from the VMware vSphere Web Client" on page 9](#)
- ["Deploying Using the Command Line" on page 12](#)

## Deploying from the VMware vSphere Console

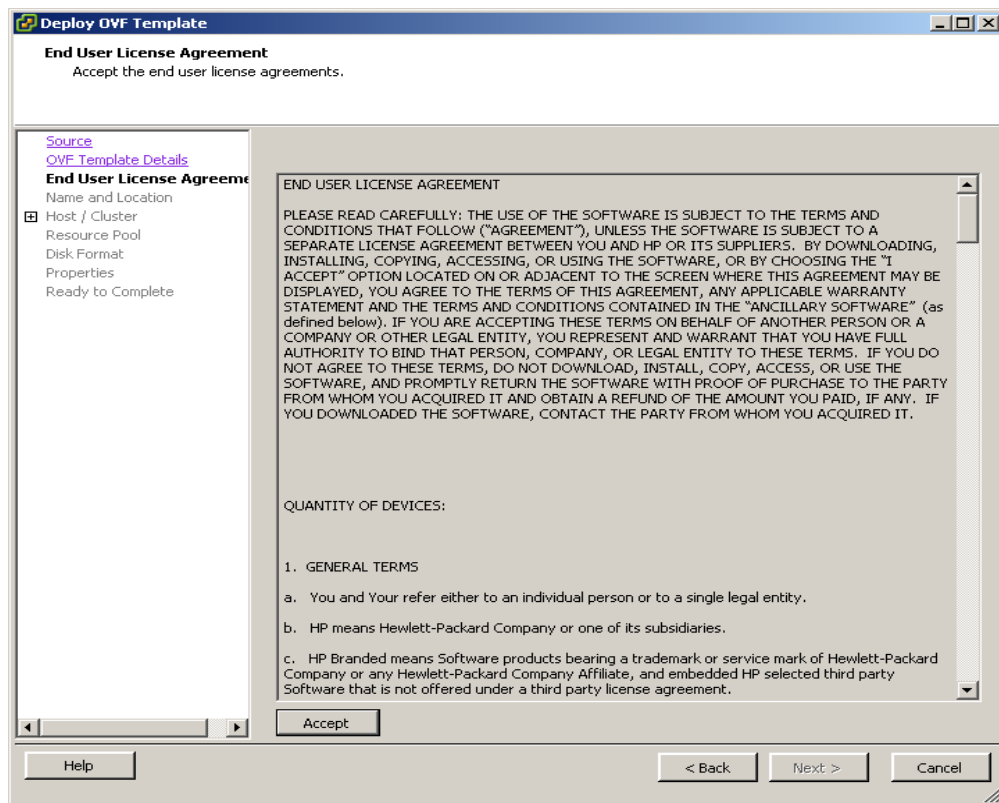
To deploy the Virtual Appliance from the VMware vSphere console:

1. Log in to the VMware vSphere console.
2. Click **File > Deploy OVF Template**.

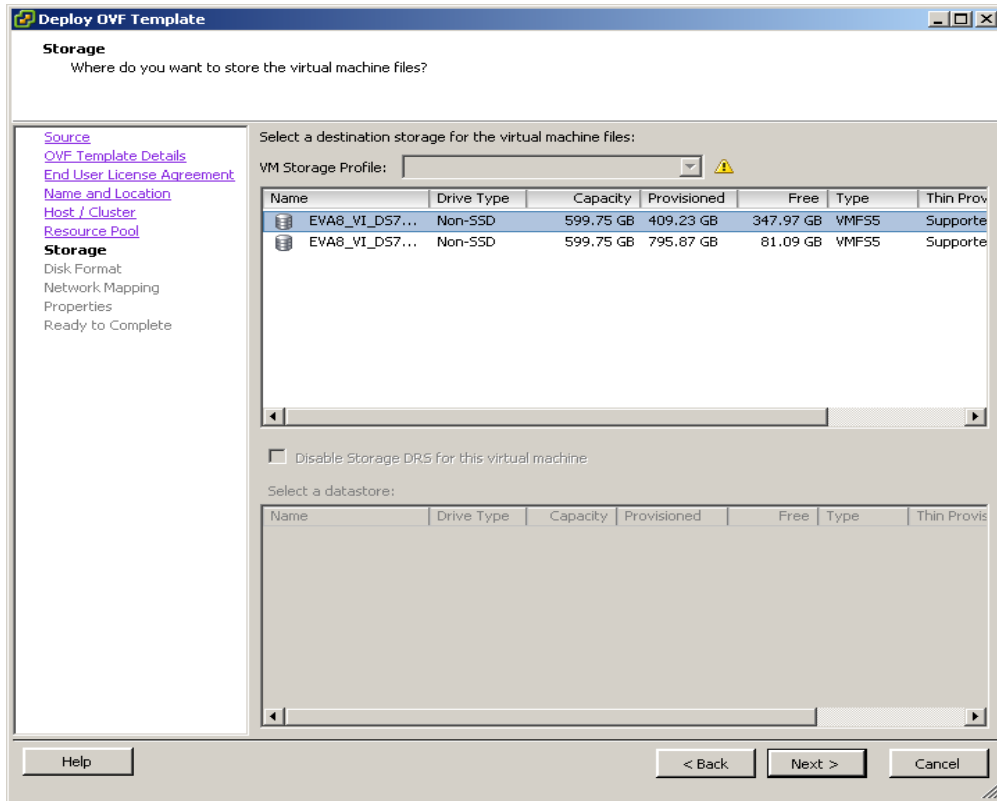


The Deploy OVF Template window opens.

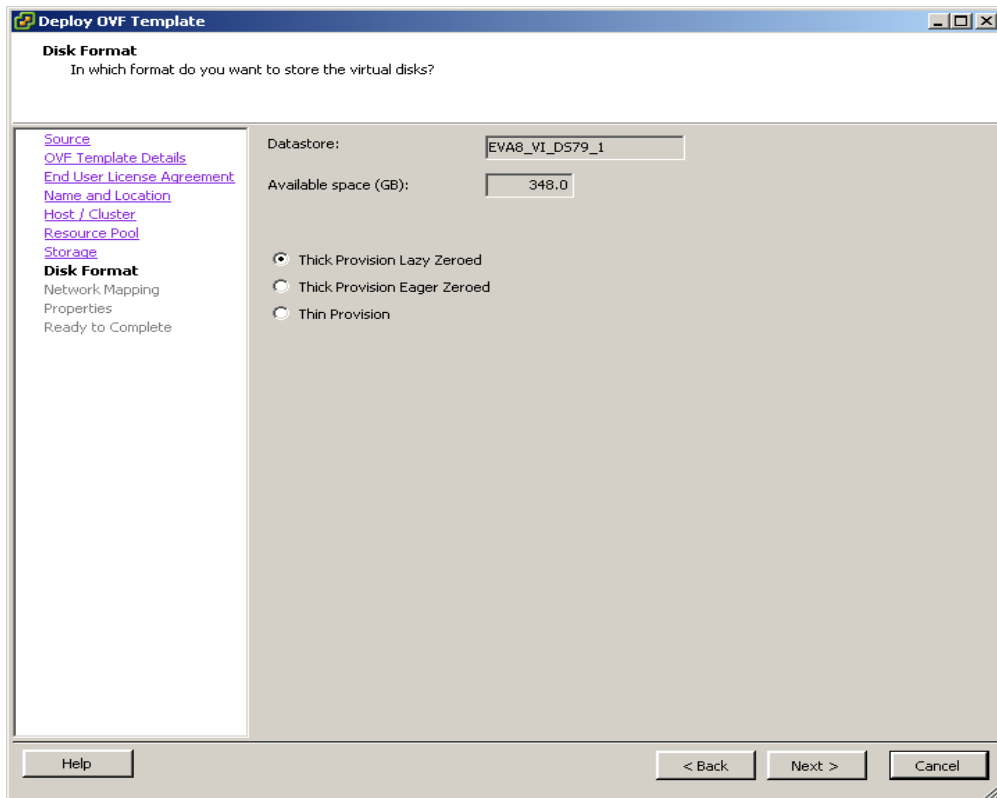
3. In Source, select the OMi Virtual Appliance (`HP_OMi_10.01IP3_VirtualAppliance.ova`).
4. In OVF Template Details, verify the OVF template-related information.
5. In End User License Agreement, read the End User License Agreement and accept it:



6. In Name and Location, specify the data center.
7. In Host / Cluster, select the host system from the list of available systems.
8. In Resource Pool, select the resource pool on which you want to run the OVF template.
9. In Storage, select the destination storage for the new Virtual Appliance:



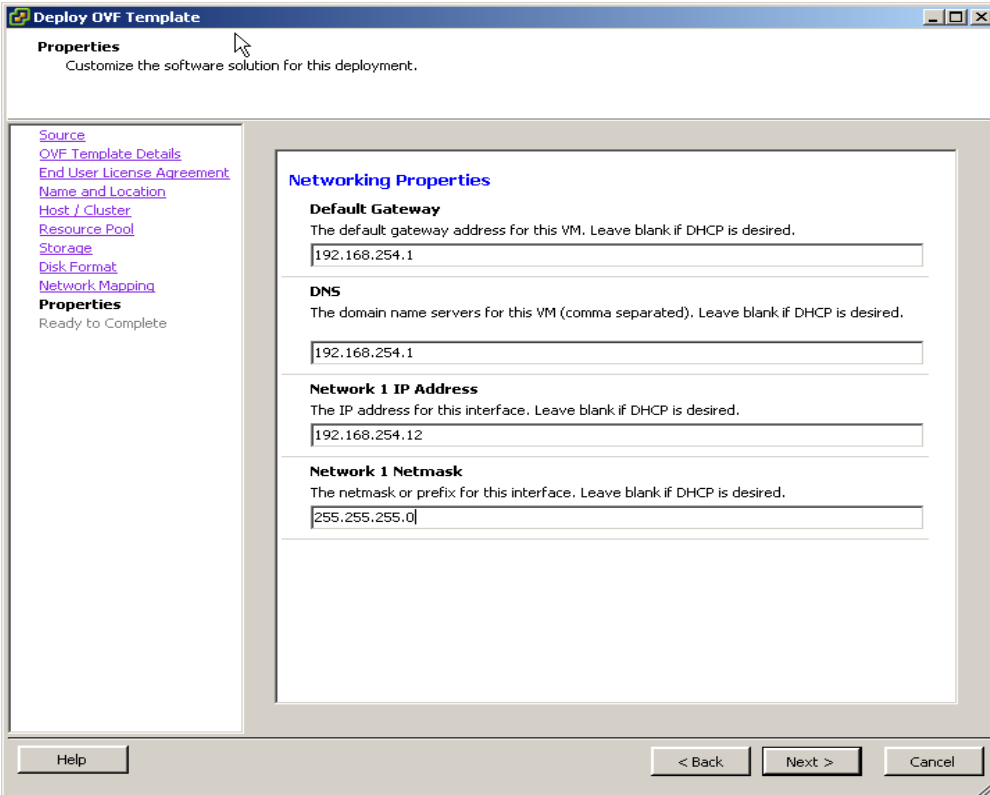
10. In Disk Format, select the disk format (it is recommended to use the Thick Provision Lazy Zeroed option):





**Note:** Selecting the Thick Provision Lazy Zeroed option creates a virtual disk in a default thick format. Space required for the virtual disk is allocated when the virtual disk is created data remaining on the physical device is not erased during creation, but is zeroed out on demand at a later time on first write from the virtual machine.

11. In Network Mapping, select the network from the list of available networks.
12. In Properties, specify the networking configuration options if you use the static IP address (leave these options blank if you use DHCP):



The screenshot shows the 'Deploy OVF Template' wizard in the 'Properties' step. The window title is 'Deploy OVF Template'. The main content area is titled 'Networking Properties' and contains the following fields:

- Default Gateway:** The default gateway address for this VM. Leave blank if DHCP is desired. Value: 192.168.254.1
- DNS:** The domain name servers for this VM (comma separated). Leave blank if DHCP is desired. Value: 192.168.254.1
- Network 1 IP Address:** The IP address for this interface. Leave blank if DHCP is desired. Value: 192.168.254.12
- Network 1 Netmask:** The netmask or prefix for this interface. Leave blank if DHCP is desired. Value: 255.255.255.0

At the bottom of the window, there are buttons for 'Help', '< Back', 'Next >', and 'Cancel'.

**Note:** Make sure the DNS entry exists for the IP address being assigned to the Virtual Appliance.

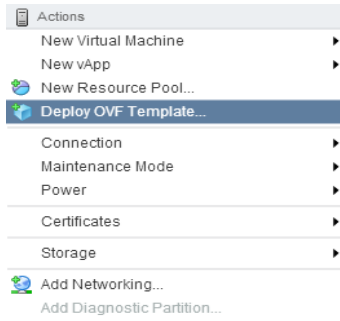
13. Review your settings and click **Finish** to start the deployment.

For additional information, see the [ESXi and vCenter Server 5.5 Documentation](#).

## Deploying from the VMware vSphere Web Client

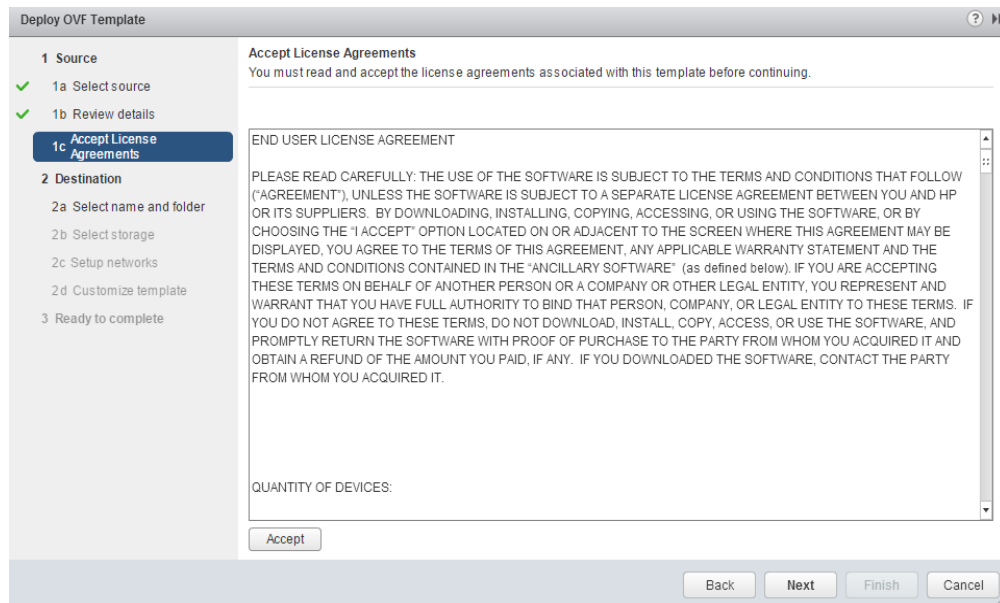
To deploy the Virtual Appliance from the VMware vSphere Web Client:

1. In a browser, open the URL of your VMware vSphere server.
2. Select your datacenter, and then select **Deploy OVF Template**.

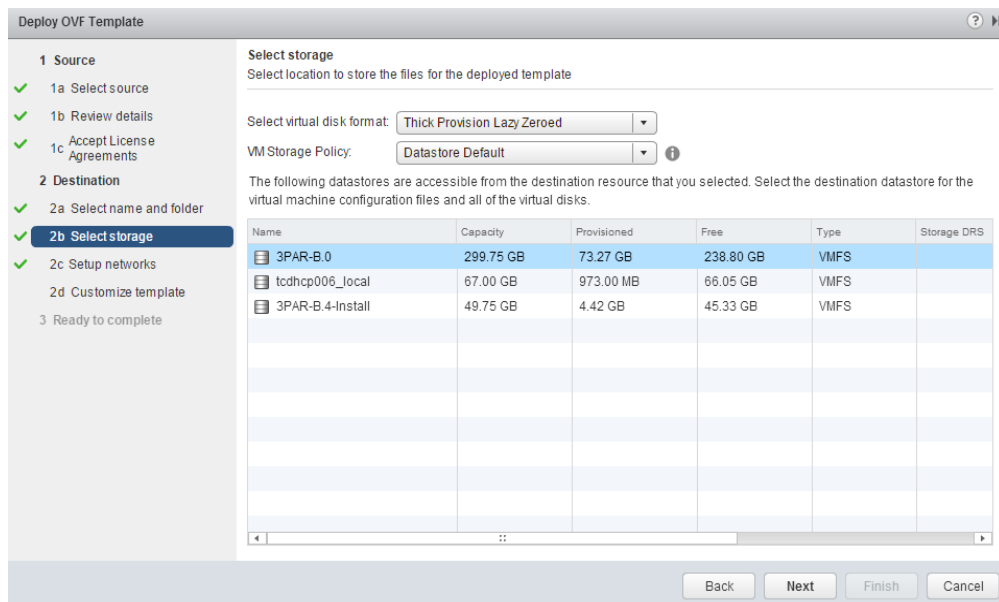


The Deploy OVF Template wizard window opens.

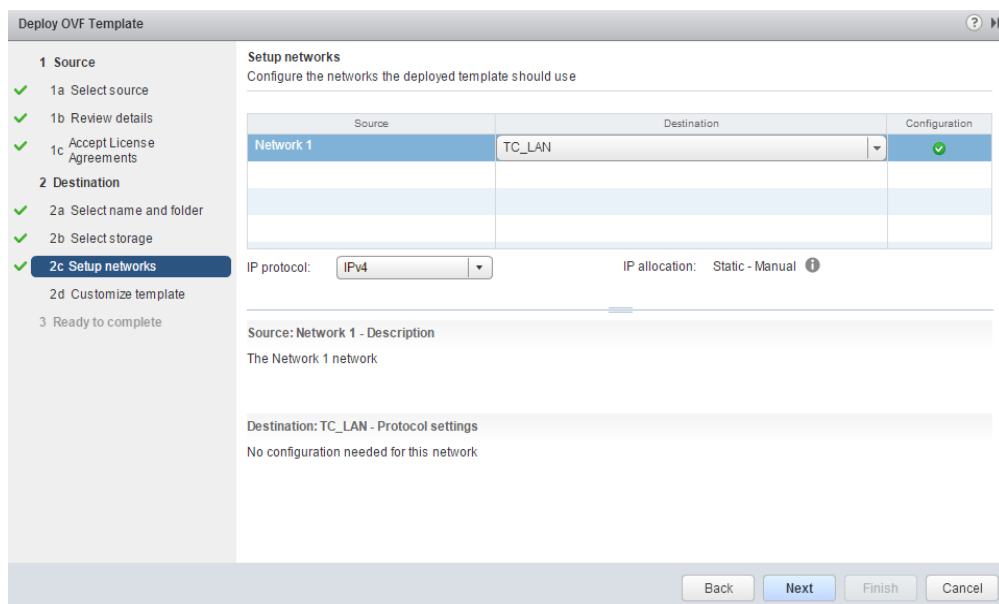
3. In Select source, select **Local file**, and then browse for the OMi Virtual Appliance (HP\_OMi\_10.01IP3\_VirtualAppliance.ova).
4. In Review details, verify the OVF template-related information, and then click **Next**.
5. In Accept License Agreements, read the End User License Agreement and accept it:



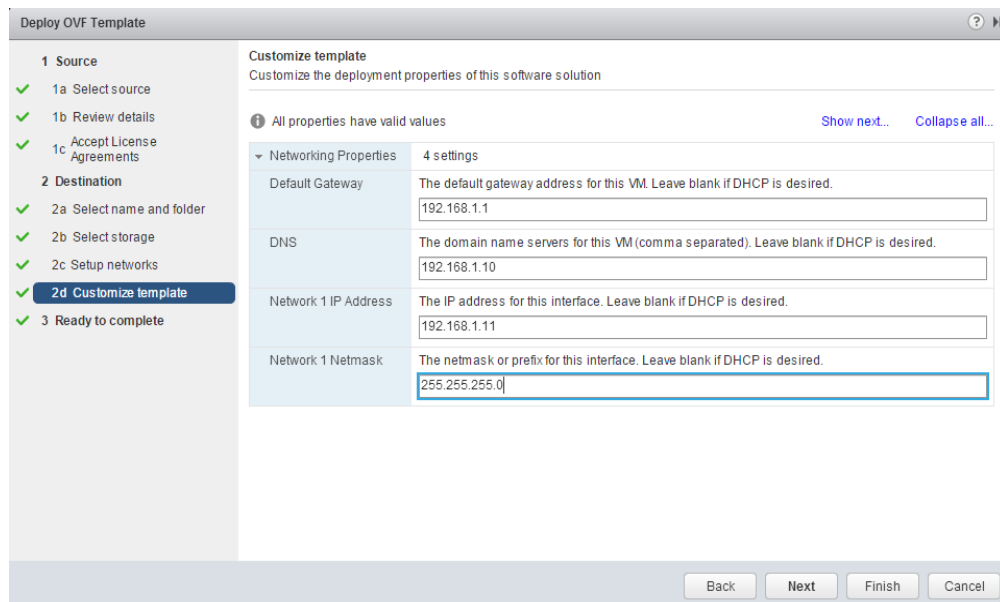
6. In Select name and folder, enter a name and location for the deployed template.
7. In Select storage, select the storage target location and the virtual disk format:



8. In Setup networks, configure the networks:



9. In Customize template, specify the network deployment properties if you choose to use a static IP address:



10. Review your settings and click **Finish** to start the deployment.

For additional information, see the [VMware vSphere 6.0 Documentation](#).

## Deploying Using the Command Line

**Prerequisite:** Download the OVF tool from [VMware](#) (<https://my.vmware.com/web/vmware/details?productId=352&downloadGroup=OVFTOOL350>).

To deploy the virtual appliance with HPE OMi using the VMware OVF tool, run the following command (in case you use a static IP address):

```
ovftool --acceptAllEulas -n=<name of the appliance>  
--network=<name of the network> -ds=<data store name>  
--powerOn -dm=thin --prop:vami.ip0.Omi_VA =<static_IP_address>  
-- prop:vami.netmask0.Omi_VA =<Subnet_IP>  
-- prop:vami.gateway.Omi_VA =<gateway_IP>  
--prop:vami.DNS.Omi_VA =<dns_IP> <URL location_of_OVA_file>  
  <URL vCenter host cluster location>
```

In this instance:

<name of the appliance> is the name to be assigned to the new virtual appliance

<name of the network> is the name of the network where you want to deploy the virtual appliance

<static\_IP\_address> is the static IP address of the virtual appliance

<Subnet\_IP> is the IP address of the subnet where you want to deploy the virtual appliance

<gateway\_IP> is the IP address of the gateway server for the virtual appliance

<dns\_IP> is the IP address of the DNS server for the virtual appliance

<URL location\_of\_OVA\_file> is the location where you stored the OMi OVA file

<URL vCenter host cluster location> is the location in vCenter where the virtual appliance will be deployed.

## Verification

To verify the successful deployment of the OMi Virtual Appliance, log in to the deployed system's operating system as user `root` using the VMware vSphere Console, Web Client, or SSH:

Login name: `root`

Password: `password`

**Caution:** We recommend that the system superuser change this password upon first login to prevent unauthorized entry. You can use the `passwd` command to change the password of the `root` account.

OMi on the deployed server starts automatically. You can check the OMi run status using the `opr-status.py` command-line tool:

```
/opt/HP/BSM/opr/support/opr-status.py
```

Once OMi is up and running, log in as user `admin` using a web browser at the following URL:

```
http://<FQDN_of_the_VA>/omi
```

Login name: `admin`

Password: `admin`

**Caution:** We recommend that the system superuser change this password upon first login to prevent unauthorized entry. For details on changing the user password, see "My Account" in the OMi User Guide. The login name cannot be changed.

It is also recommended to create additional administrative users to enable OMi administrators to access the system. For details on creating users in the OMi system, see "Users, Groups, and Roles" in the OMi Administration Guide.

**Note:**

- For login troubleshooting information, see "Troubleshooting and Limitations" in the OMi Administration Guide.
- For details on login authentication strategies that can be used in OMi, see "Authentication Management" in the OMi Administration Guide.
- For details on accessing OMi securely, see the OMi Administration Guide.

# Appendix

## Firewall Configuration

The following is the status of the iptables firewall running on the appliance:

```
Chain INPUT (policy DROP)
target    prot opt source      destination
ACCEPT    all  -- anywhere   anywhere
ACCEPT    all  -- anywhere   anywhere    state RELATED,ESTABLISHED
ACCEPT    tcp  -- anywhere   anywhere    tcp dpt:echo
ACCEPT    tcp  -- anywhere   anywhere    tcp dpt:ssh
ACCEPT    tcp  -- anywhere   anywhere    tcp dpt:telnet
ACCEPT    tcp  -- anywhere   anywhere    tcp dpt:http
ACCEPT    tcp  -- anywhere   anywhere    tcp dpt:hp-collector
ACCEPT    tcp  -- anywhere   anywhere    tcp dpt:hp-alarm-mgr
ACCEPT    tcp  -- anywhere   anywhere    tcp dpt:https
ACCEPT    tcp  -- anywhere   anywhere    tcp dpt:pyrrho
ACCEPT    tcp  -- anywhere   anywhere    tcp dpt:5480
ACCEPT    tcp  -- anywhere   anywhere    tcp dpt:5488
ACCEPT    tcp  -- anywhere   anywhere    tcp dpt:5489
ACCEPT    tcp  -- anywhere   anywhere    tcp dpt:rrac
ACCEPT    tcp  -- anywhere   anywhere    tcp dpt:dccm
```

```
Chain FORWARD (policy ACCEPT)
target    prot opt source      destination
```

```
Chain OUTPUT (policy ACCEPT)
target    prot opt source      destination
```

## Changing the User Passwords for the Embedded PostgreSQL Database

To change the user passwords for the embedded PostgreSQL database, follow these steps:

1. Make sure OMi is not running.
2. Connect to the embedded PostgreSQL database:

```
/opt/HP/BSM/pgsql/bin/psql -U postgres -p 5433
```

3. Change the password of the postgres database user:

```
alter role postgres with encrypted password '<new password>';
```

**Note:** The default password is installed.

4. Change the password of the hpbsm database user:

```
alter role hpbsm with encrypted password '<new password>';
```

**Note:** The default password is installed.

5. Edit the /customizeOMiVA/postgres.xml response file by changing all instances of the old password with the new one.
6. Reconfigure OMi:

```
/opt/HP/BSM/bin/silentConfigureBSM.sh /customizeOMiVA/postgres.xml
```

7. Start OMi.

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We appreciate your feedback!



Go OMi!