



HP Operations Manager i

Software Version: 10.00

OMi Virtual Appliance Deployment Guide

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HP Operations Manager i 10.00 Virtual Appliance

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

Default Configuration of the HP 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: Cent-OS 6.5 64bit

Note: The installed operating system is a minimal server installation without the GUI support. This means that X11 libraries are not available and the login to the operating system is only possible using the VMware vSphere console or SSH.

Recommendation: Do not install any other HP Software products/components and third-party software products on the virtual appliance instance.

HP OMi Virtual Appliance File Format

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

As the size of the OVA file exceeds the file size limitation of 4 GB, the file is split into a multi-part zip archive consisting of two files: `HP_OMi_10.00_VirtualAppliance.ova.zip` and `HP_OMi_10.00_VirtualAppliance.ova.z01`. To start the deployment of the Virtual Appliance, you need to unpack the the OVA .zip files first.

Download the OVA .zip files to a local directory on your computer. Make sure that you have at least 15 GB of available disk space in this directory.

On Linux:

- Re-combine the archive: `zip -FF HP_OMi_10.00_VirtualAppliance.ova.zip --out=combined.zip`
- Unpack the file: `unzip combined.zip`

On Windows:

- Direct your preferred packaging tool (e.g., WinRAR or WinZip) to the zip and unpack it.

To unpack with WinZip:

1. Right-click the .zip file and select **Open with WinZip**. The WinZip UI opens.
2. Select **Unzip** from the **Unzip/Share** tab. Choose your preferred destination.
3. Wait for the extraction to complete.

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 [HP GPG or RPM Signature Verification](https://h20392.www2.hp.com/portal/swdepot/displayProductInfo.do?productNumber=HPLinuxCodeSigning) (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 HP GPG Signature Verification.

Deploying the Virtual Appliance

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

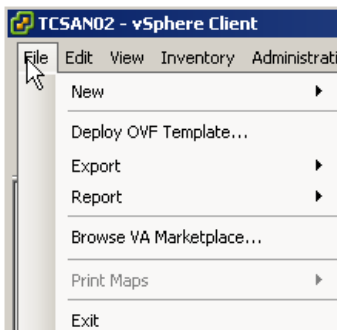
- VMware vSphere console
- VMware OVF command-line tool

See the sections below for more information.

Deploying from the VMware vSphere Console

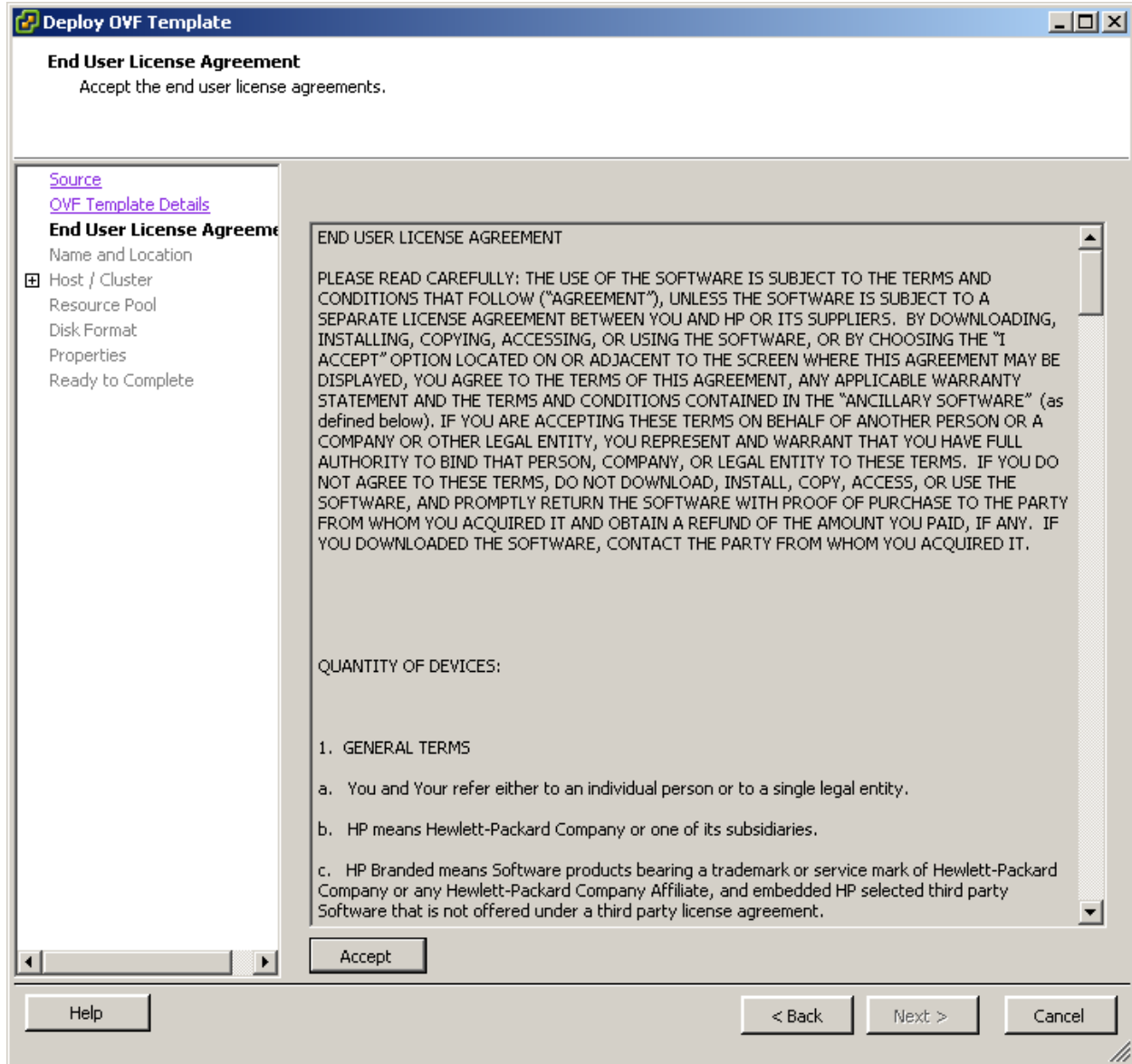
To deploy the Virtual Appliance from the VMware vSphere console:

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

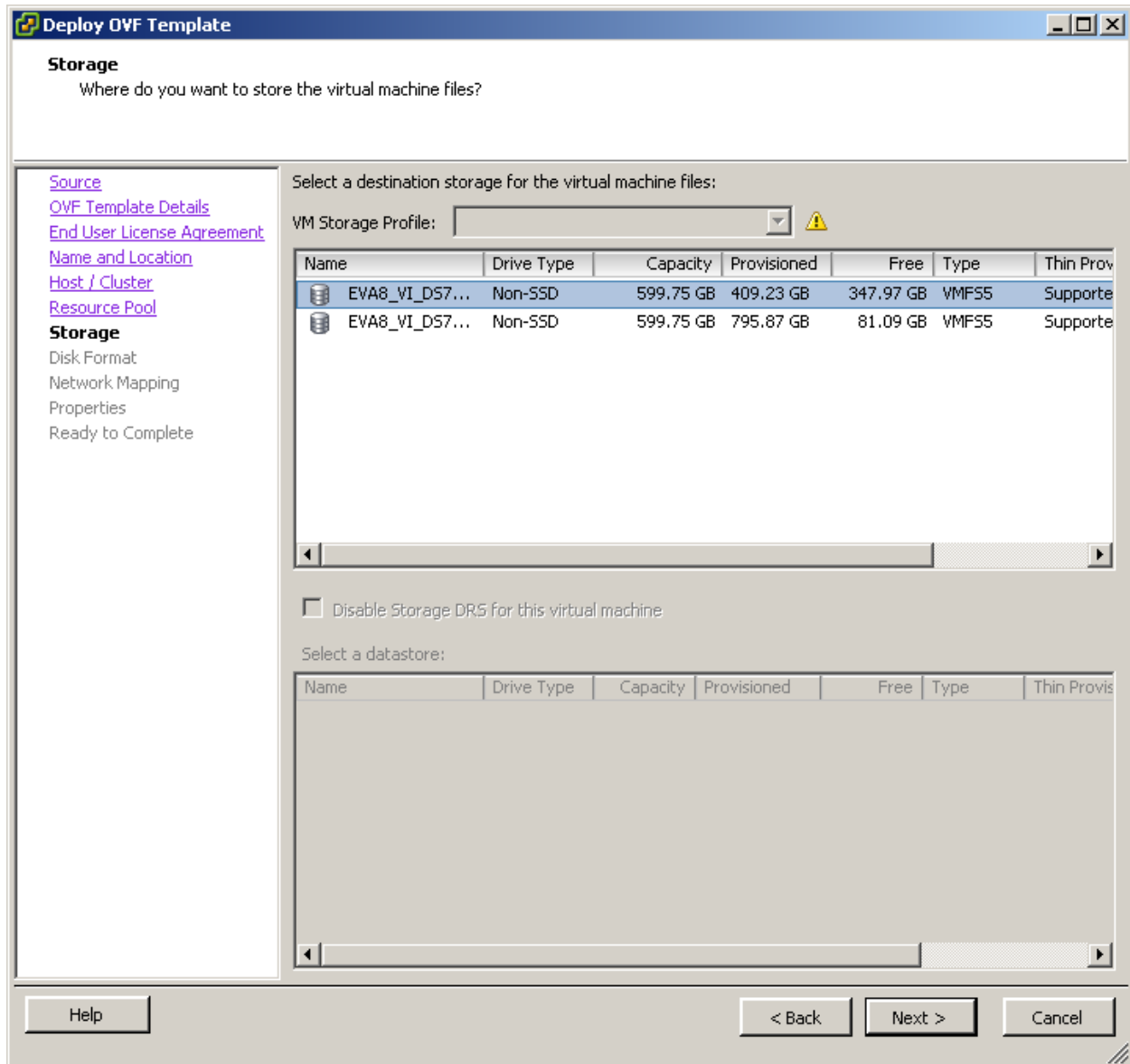


The **Deploy OVF Template** window opens.

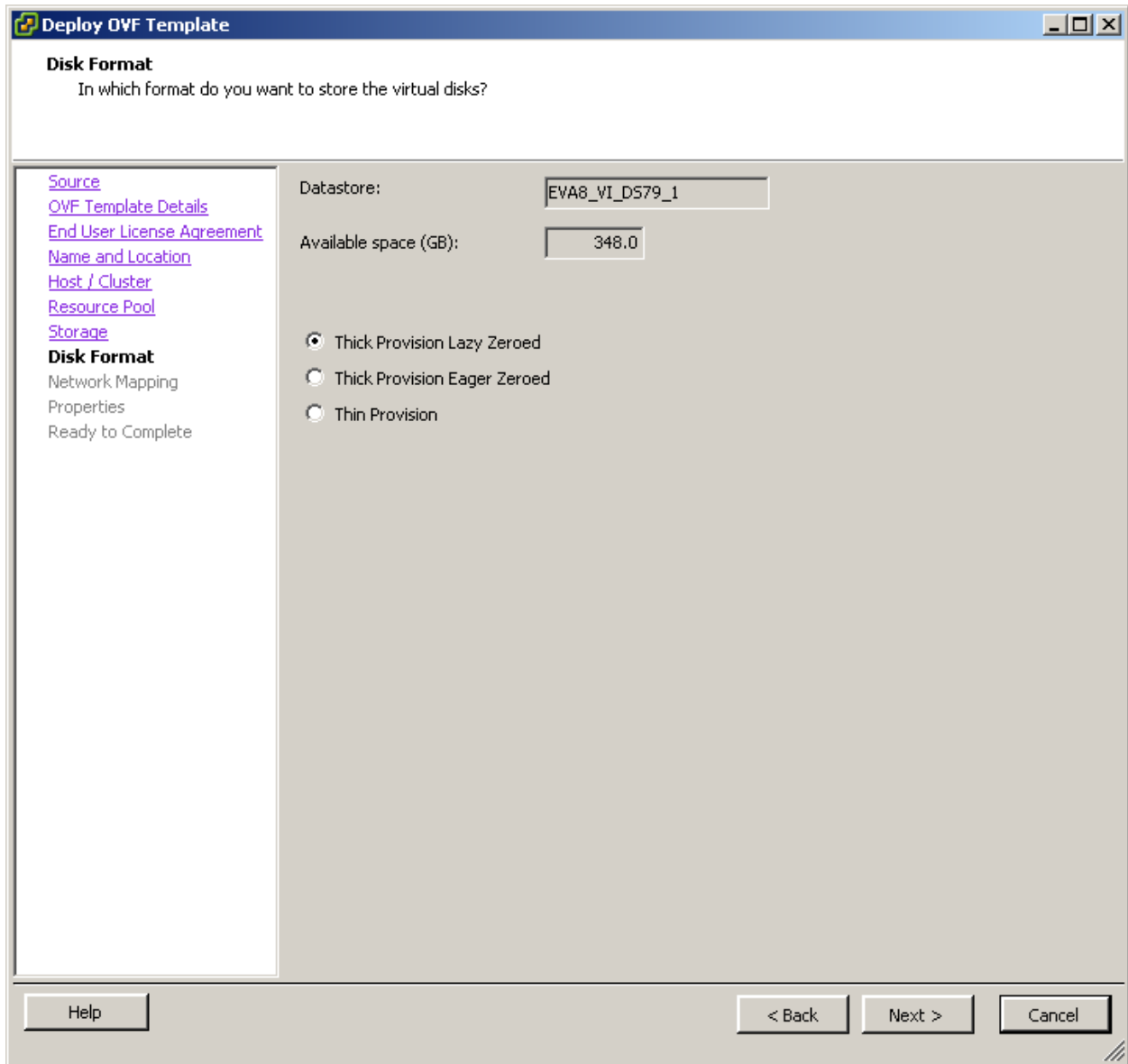
3. In **Source**, select the OMi Virtual Appliance (HP_OMi_10.00_VirtualAppliance.ova).
4. In **OVF Template Details**, verify the OVF template-related information.
5. In **End User License Agreement**, read the End User License Agreement and accept it:



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 heading is 'Properties' with the subtitle 'Customize the software solution for this deployment.' On the left, a navigation pane lists several steps: 'Source', 'OVF Template Details', 'End User License Agreement', 'Name and Location', 'Host / Cluster', 'Resource Pool', 'Storage', 'Disk Format', 'Network Mapping', and 'Properties' (which is selected and marked 'Ready to Complete'). The main content area is titled 'Networking Properties' and contains four sections, each with a text input field: 'Default Gateway' (192.168.254.1), 'DNS' (192.168.254.1), 'Network 1 IP Address' (192.168.254.12), and 'Network 1 Netmask' (255.255.255.0). At the bottom, there are three buttons: 'Help', '< Back', and 'Next >', and a 'Cancel' button on the right.

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 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 HP 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 or SSH:

```
Login name:  root
Password:   password
```

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

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
```