

HPE Operations Manager i

Software Version: 10.10 IP1

Virtual Appliance Deployment Guide

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HPE Operations Manager i 10.10 IP1 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 2,000 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 embedded Apache web server is configured for TLS with OMi-generated certificates. Connections to the OMi UI, web services, and JMX console are only possible using HTTPS.
- 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.hpe.com/portal/swdepot/displayProductInfo.do?productNumber=HPLinuxCodeSigni ng).

Note: Windows users need to download and install Gpg4win (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.

🕗 та	SANO	12 - vS	phere Clie	nt		
File	Edit	View	Inventory	Administrati		
NS	New	,		•		
	Dep	loy OVI	= Template			
	Export •					
	Rep	ort		+		
	Brow	wse VA	Marketplace	·		
	Prin	t Maps		Þ		
	Exit					

The Deploy OVF Template window opens.

3. In Source, select the OMi Virtual Appliance (HPE_OMi_10.10IP1_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:

🛃 Deploy OVF Template		
End User License Agreement		
Accept the end user license a	greements.	
Source		
OVF Template Details End User License Agreeme	END USER LICENSE AGREEMENT	
Name and Location		-
Host / Cluster Resource Pool	PLEASE READ CAREFULLY: THE USE OF THE SOFTWARE IS SUBJECT TO THE TERMS AND CONDITIONS THAT FOLLOW ("AGREEMENT"), UNLESS THE SOFTWARE IS SUBJECT TO A	
Disk Format	SEPARATE LICENSE AGREEMENT BETWEEN YOU AND HP OR ITS SUPPLIERS. BY DOWNLOADIN INSTALLING, COPYING, ACCESSING, OR USING THE SOFTWARE, OR BY CHOOSING THE "I	IG, —
Properties	ACCEPT" OPTION LOCATED ON OR ADJACENT TO THE SCREEN WHERE THIS AGREEMENT MAY	BE
Ready to Complete	DISPLAYED, YOU AGREE TO THE TERMS OF THIS AGREEMENT, ANY APPLICABLE WARRANTY STATEMENT AND THE TERMS AND CONDITIONS CONTAINED IN THE "ANCILLARY SOFTWARE"	(as
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	Software that is not offered under a third party license agreement.	-
•	Accept	
Help	<back next=""></back>	Cancel

- 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:

Taxadaha Dahada	t a destination stora	age for the virtua	I machine files:			
Template Details Jser License Agreement VM St	torage Profile:			-		
and Location Nan	ne	Drive Type	Capacity	Provisioned	Free Type	Thin P
/ Cluster		Non-SSD Non-SSD	599.75 GB 599.75 GB		347.97 GB VMFS5 81.09 GB VMFS5	Suppo
Tormat ork Mapping prities y to Complete						
	Disable Storage DR	5 for this virtual r	nachine			
	Disable Storage DR:	5 for this virtual r	nachine			
	ect a datastore:	5 for this virtual r	nachine Capacity Pro	ovisioned	Free Type	Thin Pro

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

Deploy OVF Template				
Disk Format In which format do you wa	nt to store the virtual disks?			
<u>Source</u> OVF Template Details	Datastore:	EVA8_VI_DS79_1		
End User License Agreement Name and Location Host / Cluster	Available space (GB):	348.0		
<u>Resource Pool</u> Storage				
Disk Format	Thick Provision Lazy Zero			
Network Mapping Properties	C Thick Provision Eager Zer	roed		
Properties Ready to Complete	C Thin Provision			
Help			and I North	1
Heip		_	< Back Next >	Cancel

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):

🚱 Deploy OVF Template		
Properties	ै Julion for this deployment.	
Source OVF Template Details End User License Agreement Name and Location Host / Cluster Resource Pool Storage Disk Format Network Mapping Properties Ready to Complete	Networking Properties Default Gateway The default gateway address for this VM. Leave blank if DHCP is desired. [192.168.254.1 DNS The domain name servers for this VM (comma separated). Leave blank if DHCP is desired. [192.168.254.1 Network 1 IP Address The IP address for this interface. Leave blank if DHCP is desired. [192.168.254.12 Network 1 Netmask The netmask or prefix for this interface. Leave blank if DHCP is desired. [255.255.255.0]	
Help	< Back Next >	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**.

Virtual Appliance Deployment Guide HPE Operations Manager i 10.10 IP1 Virtual Appliance

Actions	
New Virtual Machine	•
New vApp	•
💝 New Resource Pool	
🎲 Deploy OVF Template	
Connection	•
Maintenance Mode	•
Power	•
Certificates	•
Storage	•
🔮 Add Networking	
Add Diagnostic Partition	

The Deploy OVF Template wizard window opens.

- 3. In Select source, select Local file, and then browse for the OMi Virtual Appliance (HPE_OMi_10.10IP1_ 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:

		?
1 Source 1a Selectsource 1b Review details	Accept License Agreements You must read and accept the license agreements associated with this template before continuing.	
1c Accept License Agreements 2 Destination 2a Select name and folder 2b Select storage 2c Setup networks 2d Customize template 3 Ready to complete	END USER LICENSE AGREEMENT PLEASE READ CAREFULLY: THE USE OF THE SOFTWARE IS SUBJECT TO THE TERMS AND CONDITIONS THAT FOLLOW ('AGREEMENT'), UNLESS THE SOFTWARE IS SUBJECT TO A SEPARATE LICENSE AGREEMENT BETWEEN YOU AND HP OR ITS SUPPLIERS. BY DOWNLOADING, INSTALLING, COPYING, ACCESSING, OR USING THE SOFTWARE, OR BY CHOOSING THE 'I ACCEPT' OPTION LOCATED ON OR ADJACENT TO THE SCREEN WHREE THIS AGREEMENT MAY BE DISPLAYED, YOU AGREE TO THE TERMS OF THIS AGREEMENT, ANY APPLICABLE WARRANTY STATEMENT AND THE TERMS AND CONDITIONS CONTAINED IN THE 'ANCILLARY SOFTWARE' (as defined below), IF YOU ARE ACCEPTING THESE TERMS ON BEHALF OF ANOTHER PERSON OR A COMPANY OR OTHER LEGAL ENTITY YOU REPRESENT AND WARRANT THAT YOU HAVE FULL AUTHORITY TO BIND THAT PERSON, OCMPANY, OR LEGAL ENTITY TO THESE TERMS. YOU DO NOT AGREE TO THES TERMS, DO NOT DOWNLOAD, INSTALL, COPY, ACCESS, OR USE THE SOFTWARE, AND PROMPTLY RETURN THE SOFTWARE WITH PROOF OF PURCHASE TO THE PARTY FROM WHOM YOU ACQUIRED IT AND OBTAIN A REFUND OF THE AMOUNT YOU PAID, IF ANY. IF YOU DOWNLOADED THE SOFTWARE, CONTACT THE PARTY FROM WHOM YOU ACQUIRED IT.	IF

- 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:

Virtual Appliance Deployment Guide HPE Operations Manager i 10.10 IP1 Virtual Appliance

1 Source 1a Selectsource	Select storage Select location to store the	files for the deploy	ed template				
1b Review details	Select virtual disk format:	Thick Provision L	azy Zeroed	•			
1c Accept License Agreements	VM Storage Policy:	Datastore Default		• 0			
2 Destination 2a Select name and folder	The following datastores virtual machine configurat			urce that y	ou selected. Sele	ct the destination d	atastore for the
2b Select storage	Name	Capacity	Provisione	d	Free	Туре	Storage DR
2c Setup networks	3PAR-B.0	299.75	GB 73.27 G	Э	238.80 GB	VMFS	
	tcdhcp006_local	67.00	GB 973.00 M	ЛB	66.05 GB	VMFS	
2d Customize template 3 Ready to complete	3PAR-8.4-Install	49.75	38 4.42 GB		45.33 GB	VMFS	
	4	:	:				

8. In Setup networks, configure the networks:

Deploy OVF Template				(? H	
1 Source	Setup networks Configure the networks the deployed template should use				
 Ta Select source 1b Review details 	Source	Destina	tion	Configuration	
 Accept License Agreements 	Network 1	TC_LAN	▼		
2 Destination					
 2a Select name and folder 					
 2b Select storage 					
2c Setup networks	IP protocol: IPv4 💌	IP allocation:	Static - Manual 🕕		
2d Customize template					
3 Ready to complete	Source: Network 1 - Description				
	The Network 1 network				
	Destination: TC_LAN - Protocol settings				
	No configuration needed for this network				
			Back Next Finis	h Cancel	

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

Deploy OVF Template		? W
1 Source	Customize template Customize the deployment p	properties of this software solution
✓ 1b Review details	All properties have valid	values Show next Collapse all
 Accept License Agreements 		4 settings
2 Destination	Default Gateway	The default gateway address for this VM. Leave blank if DHCP is desired.
✓ 2a Select name and folder		192.168.1.1
✓ 2b Select storage	DNS	The domain name servers for this VM (comma separated). Leave blank if DHCP is desired.
✓ 2c Setup networks		192.168.1.10
✓ 2d Customize template	Network 1 IP Address	The IP address for this interface. Leave blank if DHCP is desired.
 3 Ready to complete 		192.168.1.11
	Network 1 Netmask	The netmask or prefix for this interface. Leave blank if DHCP is desired.
		255.255.255.0
		Back Next Finish Cancel

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:

https://<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 INPU [.]	Т (ро	licy	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	<pre>tcp dpt:hp-collector</pre>
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 Passwords

For details on how to change the passwords, see the following sections:

- "Changing the User Passwords for the Embedded PostgreSQL Database" below
- "Changing the JMX Password" on the next page

Changing the User Passwords for the Embedded PostgreSQL Database

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

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- 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.

Changing the JMX Password

Note: Changing the JMX password affects both the OMi and RTSM JMX consoles.

To change the JMX password, follow these steps:

- 1. Make sure OMi is not running.
- 2. In the /customizeOMiVA/postgres.xml file, enter the administrator passwords for logging on to OMi and the JMX console.

If you used the <OMi_HOME>/bin/encrypt-password tool to encrypt the password, set isEncrypted to true and enter the encrypted password as the value.

a. Set the password for the OMi administrator (admin) in the following line:

<property isEncrypted="false" key="adminPassword" value="<admin password>"/>

Note: The default password is admin.

b. Set the password for the OMi administrator (admin) for the JMX console in the following line:

<property isEncrypted="false" key="jmxPassword" value="<JMX password>"/>

Note: This password is valid only for the current system. The default password is admin.

3. Reconfigure OMi:

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

4. Start OMi.

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