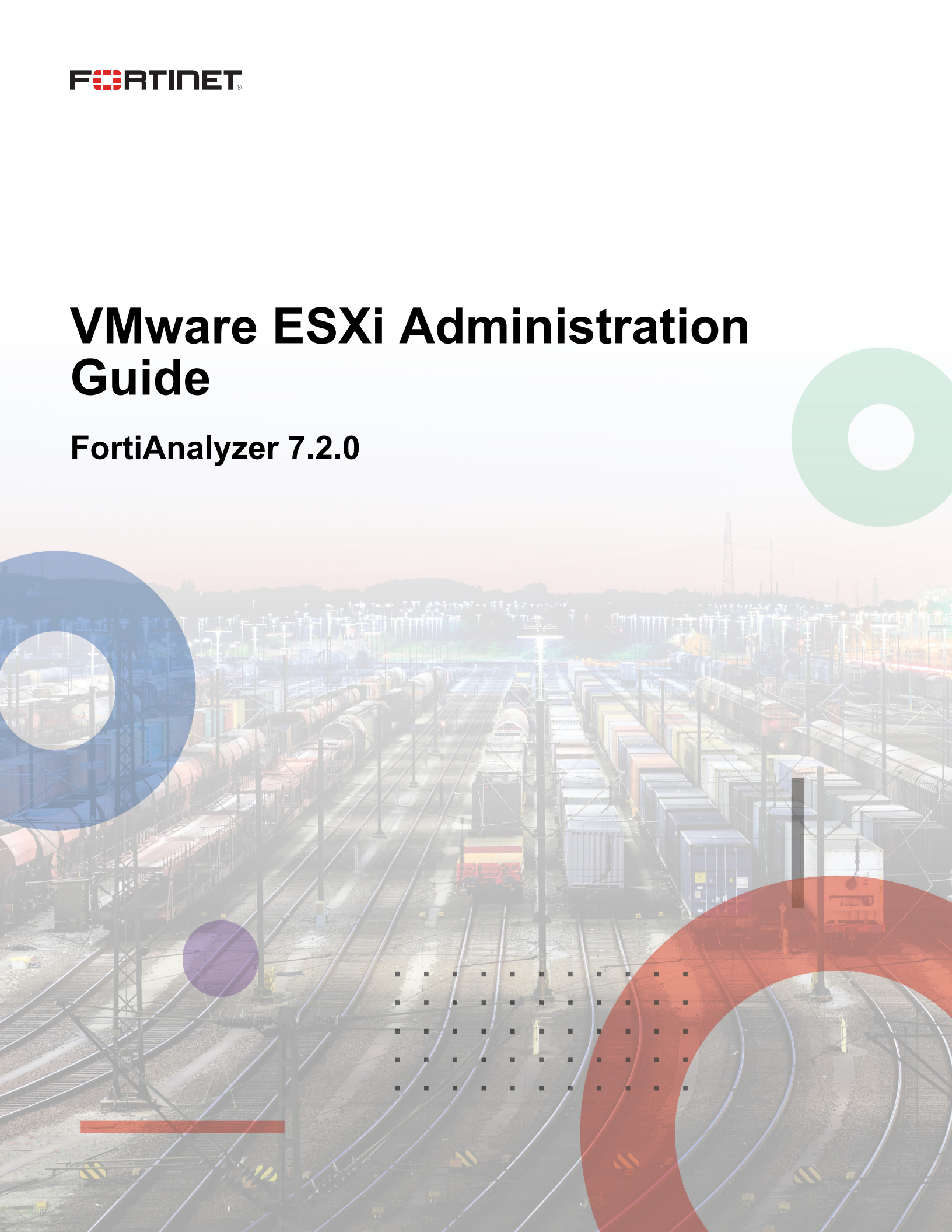


VMware ESXi Administration Guide

FortiAnalyzer 7.2.0



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September 9, 2023

FortiAnalyzer 7.2.0 VMware ESXi Administration Guide

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Change log

Date	Change description
2022-04-11	Initial release.
2022-09-06	Add Compatibility for VM hardware versions on page 9 . Update Deploying the OVF file on page 11 .
2022-09-07	Updated Minimum system requirements on page 7 .
2022-11-18	Updated Minimum system requirements on page 7 .
2023-02-01	Updated About FortiAnalyzer on VMware ESXi on page 5 .
2023-02-02	Updated Minimum system requirements on page 7 for the FortiAnalyzer 7.2.2 release.
2023-09-08	Updated Deploying the OVF file on page 11 .
2023-10-04	Updated Minimum system requirements on page 7 .
2024-01-09	Updated information about extending the LVM.
2024-01-26	Updated note about virtual hard disk sizing when configuring hardware settings.

About FortiAnalyzer on VMware ESXi

This document provides information about deploying a FortiAnalyzer virtual appliance in VMware vSphere Hypervisor (ESX/ESXi) and VMware vSphere Client environments.

This includes how to configure the virtual appliance's virtual hardware settings. This guide presumes that the reader has a thorough understanding of virtualization servers.

This document does not cover configuring and operating the virtual appliance after successfully installing and starting it. For that information, see the [FortiAnalyzer Administration Guide](#).

Licensing

Fortinet offers the FortiAnalyzer-VM with a limited, free trial license. Stackable licenses can be purchased, letting you expand your VM solution as your environment expands. You can purchase perpetual or subscription-based licenses. Perpetual licenses never expire.

For information on purchasing a FortiAnalyzer-VM license, contact your Fortinet-authorized reseller, or visit [How To Buy](#).

When configuring your FortiAnalyzer-VM, ensure that you configure hardware settings according to the minimum system requirements and consider future expansion. Contact your Fortinet-authorized reseller for more information.

License	GB/day of logs
Trial License	1
VM-GB1	+1
VM-GB5	+5
VM-GB25	+25
VM-GB100	+100
VM-GB500	+500
VM-GB2000	+2000

See [Minimum system requirements on page 7](#).

See also the [FortiAnalyzer product datasheet](#).

Trial license

With a FortiCare account, FortiAnalyzer-VM includes a free limited non-expiring trial license.

The free trial license includes support for 3 ADOMs and 1 GB/day of logs.

The free trial license does not include services or support.

You can activate the trial license when you connect to the GUI for the FortiAnalyzer-VM. Full-feature products and services are available for purchase with an add-on license. See [Connecting to the GUI and enabling a trial license on page 18](#).

Add-on license

You must activate a trial license before you can upgrade FortiAnalyzer-VM to a purchased add-on license.

See also the [FortiAnalyzer VM Trial License Guide](#) on the [Document Library](#).

Preparing for deployment

You can prepare for deployment by reviewing the following information:

- [Minimum system requirements](#)
- [Deployment package for VMware ESXi on page 8](#)
- [Downloading a deployment package](#)

Minimum system requirements



FortiAnalyzer-VM has a minimum requirement of 4 CPU, 8 GB of RAM, and 500 GB of disk storage. For v7.2.2 and later, the minimum requirement for RAM is increased to 16 GB.

The following table lists the minimum system requirements for your VM hardware, based on your VM's analytic sustained rate.

Analytic sustained rate (logs/sec)	VM hardware requirements		
	RAM (GB)	CPU cores	IOPS
3000	16	4	300
4000	16	4	400
5000	16	4	500
6000	16	8	600
7000	16	8	700
8000	16	8	800
9000	16	8	900
10000	16	8	1000
20000	32	16	2000
30000	32	16	3000
40000	64	32	4000
50000	64	32	5000



You can calculate the collector sustained rate by multiplying the analytic sustained rate by 1.5.



This table does not take into account other hardware specifications, such as bus speed, CPU model, or storage type.

Deployment package for VMware ESXi

Firmware images on the [Customer Service & Support site](#) include FortiAnalyzer-VM deployment packages. The following table lists the available VM deployment package:

VM platform	Deployment file
VMware ESXi	ESX/ESXi server: FAZ_VM64-vX-buildxxxx-FORTINET.out.ovf.zip



For the latest information on virtualization software support, see the corresponding FortiAnalyzer Release Notes on the [Fortinet Docs Library](#).

The `.out.ovf.zip` file contains:

File	Description
DATADRIVE.vmdk	FortiAnalyzer-VM log disk in VMDK format.
FAZ.vmdk	FortiAnalyzer system hard disk in Virtual Machine Disk (VMDK) format.
FortiAnalyzer-VM64.hw14.ovf	OVF template file for VMware ESXi 6.7 and later versions.
FortiAnalyzer-VM64.hw14.vapp.ovf	OVF template file for VMware vSphere, vCenter, and vCloud (ESXi 6.7 and later).
FortiAnalyzer-VM64.ovf	OVF template based on Intel e1000 NIC driver.
FortiAnalyzer-VM64.vapp.ovf	OVF template file for VMware vSphere, vCenter, and vCloud (earlier than ESXi 6.7).

For more information about FortiAnalyzer, see the [FortiAnalyzer datasheet](#).

Downloading a deployment package

Firmware image FTP directories are organized by firmware version, major release, and patch release. The firmware images in the directories follow a specific naming convention. Each firmware image is specific to the device model. For example, the `FAZ_VM64_HV-vX-buildxxxx-FORTINET.out.hyperv.zip` image, found in the 5.6.0 directory, is specific to the 64-bit Microsoft Hyper-V Server virtualization environment.



You can download the *FortiAnalyzer Release Notes* and MIB file from this directory. The Fortinet Core MIB file is located in the *FortiAnalyzer > Download* tab.



Download the `.out` file to upgrade your existing FortiAnalyzer installation.

To download deployment packages:

1. Log in to the Fortinet Customer Service & Support portal then, from the toolbar select *Download > Firmware Images*. The *Firmware Images* page opens.
2. Select *FortiManager* from the *Select Product* dropdown list, then select *Download*.
3. Browse to the appropriate directory for the version that you would like to download.
4. Download the appropriate firmware image and release notes to your management computer.
5. Extract the contents of the package to a new folder on your management computer.

Compatibility for VM hardware versions

FortiAnalyzer-VM supports ESXi 6.5 and later versions. Using corresponding hardware versions 13 and later is highly recommended, as mentioned in [Virtual machine hardware versions](#).

It is recommended to upgrade hardware versions incrementally with only one delta at a time. For example, upgrading from 10 to 11, 11 to 12, 12 to 13, then 13 to 14 is recommended, although directly upgrading from 10 to 14 generally has no issues.

To upgrade hardware versions:

1. Log in to vSphere Client web console.
2. In the left pane tree-menu, right-click the FortiAnalyzer-VM.
3. From the shortcut menu, select *Compatibility > Schedule VM Compatibility Upgrade*.
4. Click *YES*.
5. From the *Compatible with* dropdown, select the desired compatibility.
6. Click *OK*.
7. Reboot the FortiAnalyzer-VM.

Deployment

Prior to deploying the FortiAnalyzer, the VM platform must be installed and configured so that it is ready to create virtual machines. The installation instructions for FortiAnalyzer presume that you are familiar with the management software and terminology of your VM platform.

You might also need to refer to the documentation provided with your VM server. The deployment information in this guide is provided as an example because, for any particular VM server, there are multiple ways of creating a virtual machine - command line tools, APIs, alternative graphical user interface tools.

Before you start your FortiAnalyzer appliance for the first time, you might need to adjust virtual disk sizes and networking settings. The first time you start FortiAnalyzer, you will have access only through the console window of your VM server environment. After you configure one network interface with an IP address and administrative access, you can access the FortiAnalyzer GUI (see [Enabling GUI access on page 17](#)).

If the FortiAnalyzer does not have a valid Logical Volume Management (LVM) configuration, the LVM service will not start automatically upon boot-up when the disk already contains data. To manually enable the service, use the `execute lvm start` CLI command.

Deploying FortiAnalyzer on VMware vSphere

After you download the `FAZ_VM64-vx-buildxxxx-FORTINET.out.ovf.zip` file and extract the package contents to a folder on your management computer, you can deploy the OVF package to your VMware environment.

Prior to deploying the FortiAnalyzer-VM, ensure that you configure the following and they are functioning properly:

- You must install VMware vSphere Hypervisor™ (ESX/ESXi) software on a server and update it to the latest patch release prior to installing FortiAnalyzer. Go to [What is a vSphere Hypervisor?](#) for installation details.
- You must install VMware vSphere Client™ on the computer that you will use for managing the FortiAnalyzer-VM.

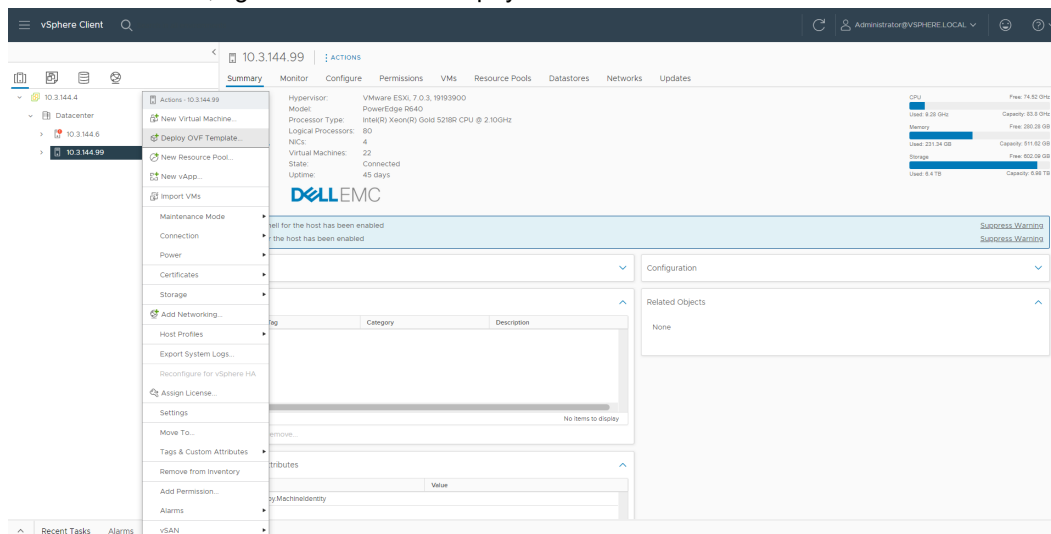
This section includes the following topics:

- [Deploying the OVF file](#)
- [Configuring hardware settings](#)
- [Powering on the VM](#)

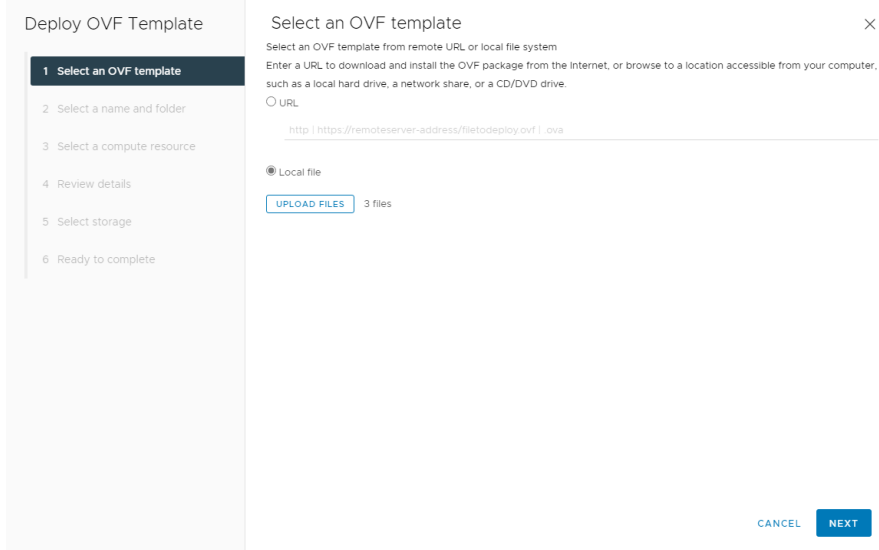
Deploying the OVF file

To deploy the OVF file template:

1. Log in to vSphere Client web console.
2. In the sidebar tree, right-click the intended physical host.



3. From the shortcut menu, select *Deploy OVF Template....*
The *Deploy OVF Template* wizard displays.
4. Using the *Deploy OVF Template* wizard, configure the FortiAnalyzer-VM:
 - a. Select an OVF Template.



- i. Select the *Local file* radio button.
- ii. Click *Browse* and select the two VMDK files and the appropriate OVF template file for your platform.
The VMDK and OVF files are included in the deployment package. See [Deployment package for VMware ESXi](#).

Alternatively, you can upload the files from a remote server. In this case, select the *URL* radio button and enter the URL of the files.

Make sure the VMDK files and the appropriate OVF template file from the deployment package are in the same path.

iii. Click *NEXT*.

b. Select a name and folder.

The screenshot shows the 'Deploy OVF Template' wizard with step 2, 'Select a name and folder', highlighted in the left sidebar. The main panel has a title 'Select a name and folder' and a close button 'X'. Below the title, it says 'Specify a unique name and target location'. The 'Virtual machine name:' field contains 'FortiAnalyzer-VM64'. Below this, it says 'Select a location for the virtual machine.' and shows a tree view with 'Datacenter' selected. At the bottom right are 'CANCEL', 'BACK', and 'NEXT' buttons.

i. In the *Virtual machine name* field, enter a name for the VM.

The name can contain up to 80 characters and must be unique within the inventory folder.

ii. From the tree menu, select the location for the VM.

iii. Click *NEXT*.

c. Select a compute resource.

The screenshot shows the 'Deploy OVF Template' wizard with step 3, 'Select a compute resource', highlighted in the left sidebar. The main panel has a title 'Select a compute resource' and a close button 'X'. Below the title, it says 'Select the destination compute resource for this operation'. It shows a tree view with 'Datacenter' expanded, and '10.3.144.6' and '10.3.144.99' listed. Below the tree view, it says 'Compatibility' and 'Compatibility checks succeeded.' with a green checkmark. At the bottom right are 'CANCEL', 'BACK', and 'NEXT' buttons.

i. From the tree menu, select the physical machine.

ii. Click *NEXT*.

d. Review details.

Deploy OVF Template

1 Select an OVF template

2 Select a name and folder

3 Select a compute resource

4 Review details

5 License agreements

6 Select storage

7 Select networks

8 Ready to complete

Review details

×

Verify the template details.

Publisher	No certificate present
Description	FortiAnalyzer Virtual Appliance by Fortinet Technologies Inc. (http://www.fortinet.com)
Download size	325.7 MB
Size on disk	Unknown (thin provisioned) 504.0 GB (thick provisioned)

CANCEL

BACK

NEXT

i. After reviewing the OVF details, click **NEXT**.

e. License agreements.

Deploy OVF Template

1 Select an OVF template

2 Select a name and folder

3 Select a compute resource

4 Review details

5 License agreements

6 Select storage

7 Select networks

8 Ready to complete

License agreements

×

The end-user license agreement must be accepted.
Read and accept the terms for the license agreement.

End User License Agreement for FortiAnalyzer Virtual Appliance

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☒ I accept all license agreements.

CANCEL

BACK

NEXT

i. After reviewing the license agreements, select the checkbox for *I accept all license agreements*.ii. Click **NEXT**.

f. Select storage.

Deploy OVF Template

- 1 Select an OVF template
- 2 Select a name and folder
- 3 Select a compute resource
- 4 Review details
- 5 License agreements
- 6 Select storage**
- 7 Select networks
- 8 Ready to complete

Select storage

×

Select the storage for the configuration and disk files

☐ Encrypt this virtual machine (Requires Key Management Server)

Select virtual disk format

Thick Provision Lazy Zeroed

VM Storage Policy

Datastore Default

☐ Disable Storage DRS for this virtual machine

Name	Storage Compatibility	Capacity	Provisioned	Free	Type	Cluster	SI
data	--	6.98 TB	14.87 TB	602.09 GB	VMFS 6		

1 item

Compatibility

✓

Compatibility checks succeeded.

CANCEL

BACK

NEXT

i. From the *Select virtual disk format* dropdown, select one of the following:

- *Thick Provision Lazy Zeroed*: Allocates the disk space statically (no other volumes can take the space), but does not write zeros to the blocks until the first write takes place to that block during runtime (which includes a full disk format).
- *Thick Provision Eager Zeroed*: Allocates the disk space statically (no other volumes can take the space), and writes zeros to all the blocks.
- *Thin Provision*: Allocates the disk space only when a write occurs to a block, but the Virtual Machine File System (VMFS) reports the total volume size to the OS. Other volumes can take the remaining space. This allows you to float space between your servers, and expand your storage when your size monitoring indicates there is a problem. Once a Thin Provisioned block is allocated, it remains in the volume regardless of whether you have deleted data.



If you know your environment will expand in the future, adding hard disks larger than the FortiAnalyzer base license requirement and utilizing Thin Provision when setting the OVF Template disk format is recommended. This allows your environment to expand as required while not taking up more space in the SAN than needed.

- ii. From the menu, select the data storage location.
- iii. Click *NEXT*.

g. Select networks.

Deploy OVF Template

- 1 Select an OVF template
- 2 Select a name and folder
- 3 Select a compute resource
- 4 Review details
- 5 License agreements
- 6 Select storage
- 7 Select networks**
- 8 Ready to complete

Select networks

Select a destination network for each source network.

Source Network	Destination Network
Network 1	VM Network ▾
Network 2	VM Network ▾
Network 3	VM Network ▾
Network 4	VM Network ▾

4 items

IP Allocation Settings

IP allocation: Static - Manual

IP protocol: IPv4

CANCEL

BACK

NEXT

- Map the networks used in this OVF template to networks in your inventory. Network 1 maps to port1 of the FortiAnalyzer. You must set the destination network for this entry to access the device console.
- Click **NEXT**.

h. Ready to complete.

Deploy OVF Template

- 1 Select an OVF template
- 2 Select a name and folder
- 3 Select a compute resource
- 4 Review details
- 5 License agreements
- 6 Select storage
- 7 Select networks
- 8 Ready to complete**

Ready to complete

Select a name and folder

Name: FortiAnalyzer-VM64
Template name: FortiAnalyzer-VM64
Folder: Datacenter

Select a compute resource

Resource: 10.3.144.99

Review details

Download size: 325.7 MB

Select storage

Size on disk: 504.0 GB
Storage mapping: 1
All disks: Datastore: data; Format: Thick provision lazy zeroed

Select networks

Network mapping: 4
Network 1: VM Network
Network 2: VM Network
Network 3: VM Network
Network 4: VM Network
IP allocation settings

CANCEL

BACK

FINISH

- After verifying the information, click **FINISH** to start the deployment. You may need to configure the FortiAnalyzer hardware settings before powering on the VM. See [Configuring hardware settings on page 15](#).

Configuring hardware settings

Before powering on your FortiAnalyzer-VM, you must configure the virtual memory, virtual CPU, and virtual disk.



In FortiAnalyzer 5.6 and later, the network interface mapping has changed. See the [FortiAnalyzer Upgrade Guide](#) for more information.

To configure hardware settings:

1. In the vSphere Client, select the VM from the tree menu in the left pane.
2. In the VM Hardware pane, click *Edit Settings...*

The *Edit Settings* dialog displays.

Device	Value	Unit	Connect
CPU	4		
Memory	8	GB	
Hard disk 1	4,004,882,812	GB	
Hard disk 2	500	GB	
SCSI controller 0	VMware Paravirtual		
Network adapter 1	VM Network		<input checked="" type="checkbox"/> Connect...
Network adapter 2	VM Network		<input checked="" type="checkbox"/> Connect...
Network adapter 3	VM Network		<input checked="" type="checkbox"/> Connect...
Network adapter 4	VM Network		<input checked="" type="checkbox"/> Connect...
Video card	Specify custom settings		
VMCI device			
Other	Additional Hardware		

3. In the *CPU* field, adjust the number of CPU cores as required.
4. In the *Memory* field, adjust the memory size as required. See [Minimum system requirements on page 7](#) to determine your required memory.
5. In the *Hard disk 2* field (the log disk), adjust the size required. You should not edit *Hard disk 1*.



The FortiAnalyzer-VM allows you to add twelve virtual log disks to a deployed instance. When adding additional hard disks, use the following CLI command to extend the LVM logical volume:

```
execute lvm extend
```



The FortiAnalyzer-VM requires at least two virtual hard disks. Before powering on the FortiAnalyzer-VM, you must add at least one more virtual hard disk (ideally above 500 GB).

The VM should therefore be configured with the following disks:

- The default hard drive that contains the OS and **should not** be modified.
- One or more additional disks, for example *Disk1* and *Disk2*, used by LVM for logs, reports, swap, and other storage requirements.

The default virtual hard disk storage size should not be modified to increase capacity, only increasing *Disk1* or adding extra disks will extend LVM disk on the FortiAnalyzer-VM.

6. Click *OK* to apply your changes.

Powering on the VM

You can now proceed to power on your FortiAnalyzer.

To power on the VM:

1. In the vSphere Client, select the VM from the tree menu in the left pane.
2. From the **ACTIONS** dropdown, select *Power > Power On*.
3. Once it is enabled, click *Launch Web Console*.
4. Once the VM starts, proceed with the initial configuration. See [Configuring initial settings on page 17](#).

Configuring initial settings

Before you can connect to the FortiAnalyzer-VM, you must configure basic network settings via the CLI console. Once configured, you can connect to the FortiAnalyzer GUI.

Enabling GUI access

To enable GUI access to the FortiAnalyzer, you must configure the IP address and network mask of the appropriate port on the FortiAnalyzer. The following instructions use port 1.



You can determine the appropriate by matching the network adapter's MAC address and the HWaddr that the CLI command `diagnose fmnetwork interface list` provides.

To configure the port1 IP address and netmask:

1. In your hypervisor manager, start the FortiAnalyzer and access the console window. You might need to press *Enter* to see the login prompt.
2. At the FortiAnalyzer login prompt, enter the username *admin*, then press *Enter*. By default, there is no password.
3. Using CLI commands, configure the port1 IP address and netmask.

```
config system interface
  edit port1
    set ip <IP address> <netmask>
  end
```



The port management interface should match the first network adapter and virtual switch that you have configured in the hypervisor VM settings.

4. To configure the default gateway, enter the following commands:

```
config system route
  edit 1
    set device port1
    set gateway <gateway_ipv4_address>
  end
```



The Customer Service & Support portal does not currently support IPv6 for FortiAnalyzer license validation. You must specify an IPv4 address in the support portal and the port management interface.

Connecting to the GUI and enabling a trial license

Once you have configured a port's IP address and network mask, you can connect to the GUI by using a web browser.

To connect to the GUI and enable a trial license:

1. Launch a web browser, and enter the IP address you configured for the port management interface.
2. At the login page, select *Free Trial*, and click *Login with FortiCloud* to start the process of activating your free trial license.

If you do not have a FortiCloud account, click *Register with FortiCloud* to create one.

See also the [FortiAnalyzer VM Trial License Guide](#) on the [Document Library](#).

Upgrading to an add-on license

You must activate a trial license before you can upgrade FortiAnalyzer-VM to a purchased add-on license.

See also the [FortiAnalyzer VM Trial License Guide](#) on the [Document Library](#).

Configuring your FortiAnalyzer

Once the FortiAnalyzer license has been validated, you can configure your device.

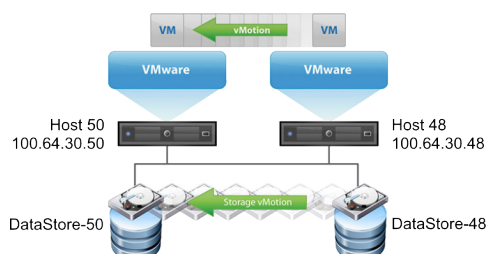


If the amount of memory or number of CPUs is too small for the VM, or if the allocated hard drive space is less than the licensed VM storage volume, warning messages show in the GUI in the *System Resources* widget on the dashboard and in the *Notification* list.

vMotion in a VMware environment

This guide provides sample configuration of a vMotion FortiAnalyzer-VM in a VMware environment. VMware vMotion enables the live migration of a running FortiAnalyzer-VM from one physical server to another with zero downtime, continuous service availability, and complete transaction integrity. It also provides transparency to users.

The following depicts the network topology for this sample deployment. In this sample deployment, there are two hosts, Host 48 (100.64.30.48) and Host 50 (100.64.30.50), that are members of Cluster 1 in the DataCenter 1. The vCenter server (vcenter67.faz.lab) manages DataCenter 1.



This configuration requires the following prerequisites:

- You have set up the vCenter server and created the data center and cluster.
- Host 48 and Host 50 are members of the cluster.
- A Gigabit Ethernet network interface card with a VMkernel port enabled for vMotion exists on both ESXi hosts.
- A FortiAnalyzer-VM that is set up and able to handle traffic.

To migrate the FortiAnalyzer-VM on the vCenter web portal:

1. Log in to the vCenter web portal.
2. Verify the current location of the FortiAnalyzer-VM:
 - a. Go to the FortiAnalyzer-VM.
 - b. On the *Summary* tab, check the *Host*. In this example, the host is currently Host 48 (100.64.30.48).
 - c. Go to *Storage > Files*. Check that the FortiAnalyzer-VM is located in the correct datastore. In this example, the datastore is currently Datastore 48, in Host 48.
3. Right-click the FortiAnalyzer-VM and select *Migrate*.
4. Configure the migration options:
 - a. For *Select a migration type*, select *Change both compute resource and storage*. Click *NEXT*.
 - b. For *Select a compute resource*, select the desired new compute resource. In this example, Host 50 (100.64.30.50) is selected. Click *NEXT*.
 - c. For *Select storage*, select the storage associated with the selected compute resource. In this example, Datastore 50 (as corresponds to Host 50) is selected. Click *NEXT*.
 - d. For *Select networks*, select the desired destination network at the selected compute resource. In this example, the source network is at Host 48, and the destination network is at Host 50. Click *NEXT*.
 - e. For *Select vMotion priority*, select *Schedule vMotion with high priority (recommended)*. Click *NEXT*.
5. Before initiating the migration, open the CLI for the FortiAnalyzer-VM to check on traffic during the migration. Enter `diagnose sniffer packet any 'icmp and host 8.8.8.8'` to check if traffic is stable.
6. Click *FINISH*.

After a few seconds, the FortiAnalyzer-VM is migrated to the new compute resources, in this case Host 50.

7. Log into the vCenter web portal. Go to the FortiAnalyzer-VM. On the *Summary* tab, the *Host* is now the new compute resources, in this case Host 50 (100.64.30.50).
8. Go to *Storage > Files*. It shows that the FortiAnalyzer-VM is now located in a new datastore, in this example Datastore 50.



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