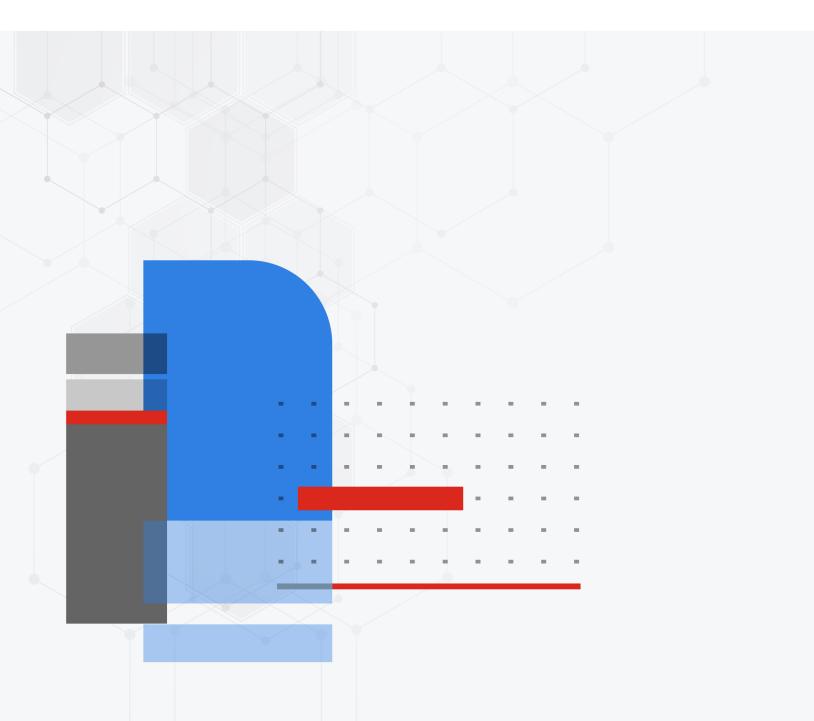


Azure Installation Guide

FortiSIEM 6.7.4



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10/03/2023

FortiSIEM 6.7.4 Azure Installation Guide

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Change Log

10/06/2020 Initial release of Azure Installation and Migration Guide. 11/03/2020 Release of Azure Installation and Migration Guide for 6.1.1. 12/07/2020 Small addition to Register Collectors. 02/05/2021 Migration update. 03/23/2021 Release of Azure Installation Guide for 6.2.0. 04/22/2021 Added Install Log section. 05/07/2021 Release of Azure Installation Guide for 6.2.1. 06/07/2021 Updated Elasticsearch screenshot for 6.2.x guides. 07/06/2021 Release of Azure Installation Guide for 6.3.0. 08/26/2021 Release of Azure Installation Guide for 6.3.1. 10/15/2021 Release of Azure Installation Guide for 6.3.2. 11/17/2021 Updated Register Collectors instructions for 6.x guides. 12/22/2021 Release of Azure Installation Guide for 6.3.3. 01/18/2022 Release of Azure Installation Guide for 6.4.0. 01/28/2022 Section "Find the FortiSIEM Offer in Azure Using the Azure Marketplace" replaces "Create a FortiSIEM Image in Azure Using the Published VHD". Section "Create a VM Using a FortISIEM Azure (Marketplace) Image" updated for 6.4.0 Installation Guide. 05/09/2022 Release of Azure Installation Guide for 6.6.0. 08/18/2022 Updated All-in-one Installation Guide for 6.6.1. 09/14/2022 </th <th>Date</th> <th>Change Description</th>	Date	Change Description
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Date	Change Description
02/24/2023	Pre-Installation Checklist, Choose an Event Database, Install Supervisor, Install Workers and Register Workers sections updated for 6.7.x Guides. Added Create ClickHouse Topology (Optional) and Final Check sections to 6.7.x Guides.
03/07/2023	Release of Azure Installation Guide for 6.7.2.
03/28/2023	Release of Azure Installation Guide for 6.7.3.
04/11/2023	Release of Azure Installation Guide for 6.7.4.
05/15/2023	Updated steps in Create a VM Using a FortiSIEM #.#.#Azure Marketplace Image.
05/22/2023	Release of Azure Installation Guide for 6.7.5.
06/16/2023	Release of Azure Installation Guide for 6.7.6.
07/13/2023	Release of Azure Installation Guide for 6.7.7.
09/12/2023	Release of Azure Installation Guide for 6.7.8.

Fresh Installation

This section describes how to install FortiSIEM for the current release.

- Pre-Installation Checklist
- All-in-one Installation
- · Cluster Installation

Pre-Installation Checklist

Before you begin, check the following:

- Ensure that your system can connect to the network. You will be asked to provide a DNS Server and a host that can be resolved by the DNS Server and responds to ping. The host can either be an internal host or a public domain host like google.com.
- Choose deployment type Enterprise or Service Provider. The Service Provider deployment provides multitenancy.
- · Determine whether FIPS should be enabled
- · Choose install type:
 - · All-in-one with FortiSIEM Manager
 - · Cluster with Manager, Supervisor and Workers
 - · All-in-one with Supervisor only, or
 - · Cluster with Supervisor and Workers
- · Choose the storage type for Supervisor, Worker, and/or Collector
 - Online There are 4 choices
 - ClickHouse Recommended for most deployments. Please see ClickHouse Reference Architecture for more information.
 - EventDB on local disk
 - o EventDB on NFS
 - Elasticsearch
 - Archive There are 2 choices
 - o EventDB on NFS
 - HDFS
- Determine hardware requirements and choose the Azure instance type accordingly:

Node	vCPU	RAM	Local Disks
Manager	Minimum – 16 Recommended - 32	Minimum • 24GB Recommended • 32GB	OS – 25GB OPT – 100GB CMDB – 60GB SVN – 60GB
Supervisor (All	Minimum – 12	Minimum	OS – 25GB

Node	vCPU	RAM	Local Disks
in one)	Recommended - 32	 without UEBA – 24GB with UEBA - 32GB Recommended without UEBA – 32GB with UEBA - 64GB 	OPT – 100GB CMDB – 60GB SVN – 60GB Local Event database – based on need
Supervisor (Cluster)	Minimum – 12 Recommended - 32	Minimum • without UEBA – 24GB • with UEBA - 32GB Recommended • without UEBA – 32GB • with UEBA - 64GB	OS – 25GB OPT – 100GB CMDB – 60GB SVN – 60GB
Workers	Minimum – 8 Recommended - 16	Minimum – 16GB Recommended – 24GB	OS – 25GB OPT – 100GB
Collector	Minimum – 4 Recommended – 8 (based on load)	Minimum – 4GB Recommended – 8GB	OS – 25GB OPT – 100GB

- If your Online event database is external (e.g. EventDB on NFS or Elasticsearch), then you must configure external storage before proceeding to FortiSIEM deployment.
 - For NFS deployment, see here.
 - For Elasticsearch deployment, see here.
- If your Online event database is internal, that is, inside Supervisor or Worker nodes, then you need to determine the size of the disks based on your EPS and event retention needs.
 - · For EventDB on local disk, see here.
 - For ClickHouse, see here.
- For OPT 100GB, the 100GB disk for /opt will consist of a single disk that will split into 2 partitions, /OPT and swap. The partitions will be created and managed by FortiSIEM when configFSM.sh runs.

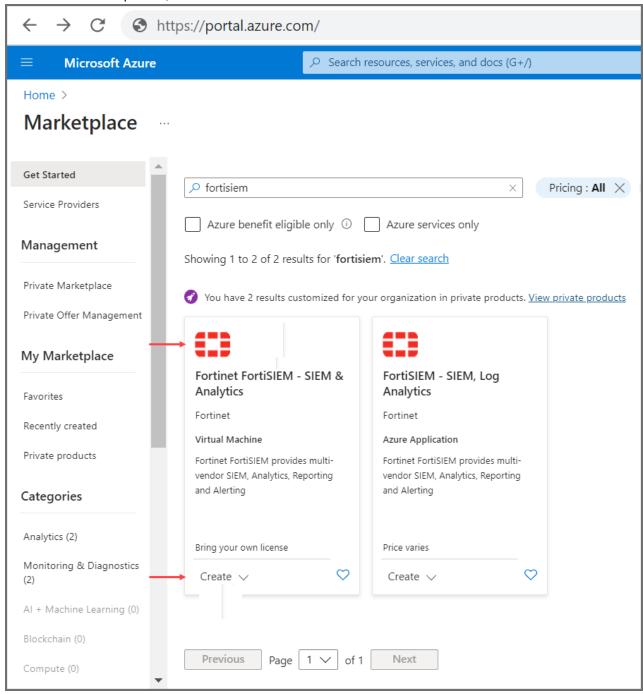
All-in-one Installation

This is the simplest installation with a single Virtual Appliance. If storage is external, then you must configure external storage before proceeding with installation.

- Find the FortiSIEM Offer in Azure Using the Azure Marketplace
- Create a VM Using a FortiSIEM 6.7.4 Azure Marketplace Image
- Configure FortiSIEM
- Upload the FortiSIEM License
- · Configure an Event Database
- Final Check

Find the FortiSIEM Offer in Azure Using the Azure Marketplace

- 1. On the Azure portal, search for Marketplace and navigate to Azure Marketplace.
- 2. Search for the keyword "fortisiem".
- 3. Select the Create drop-down, and choose Fortinet FortiSIEM for Azure.

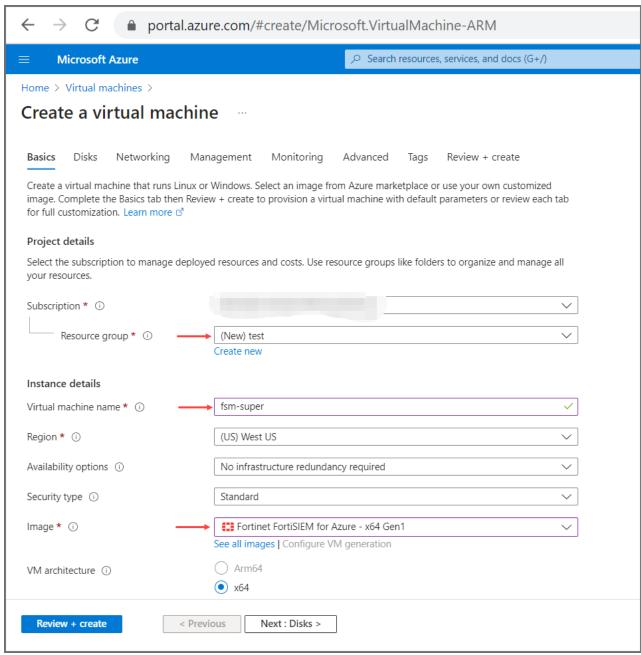


At this point, Azure will take you through the steps to create a virtual machine by first taking you to the **Create a virtual machine** page. Follow the steps in Create a VM Using a FortiSIEM 6.7.4 Azure Marketplace Image to continue.

Create a VM Using a FortiSIEM 6.7.4 Azure Marketplace Image

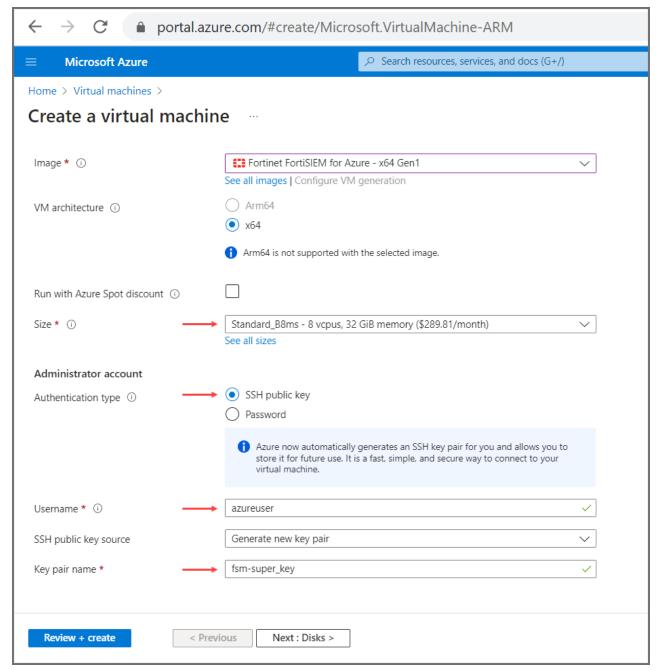
From the Create a virtual machine page, take the following steps:

- 1. From the **Resource group** drop-down list, select a resource group.
- 2. In the Virtual machine name field, enter a name for your virtual machine.
- **3.** From the **Image** drop-down list, select the image.



4. From the Size drop-down list, select a size based on your node type and hardware requirements.

- 5. Under Administrator account, select SSH public key for Authentication type.
- **6.** The **Username** field is specified as azureuser.
- 7. From the **Key pair name** drop-down list, select your existing key pair. If needed, generate a new key pair, then select it here.



- 8. When done with this step for configuration , click **Next: Disks >**.
- 9. On the Create a new disk page, you will need to create disks based on the following table.

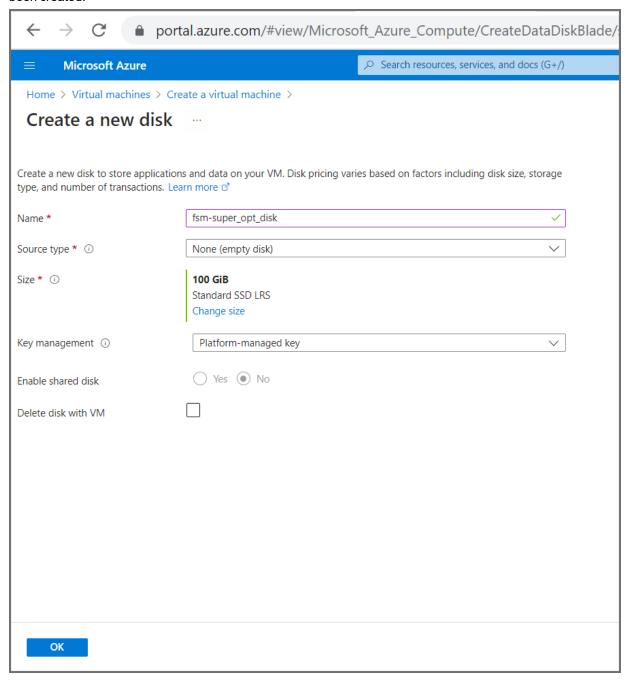
Volume Name	Size	Disk Name
Data Disk LUN 0	100GB	/opt

Volume Name	Size	Disk Name
		For OPT - 100GB, the 100GB disk for /opt will consist of a single disk that will split into 2 partitions, /OPT and swap. The partitions will be created and managed by FortiSIEM when configFSM.shruns.
Data Disk LUN 1	60GB for FortiSIEM Supervisor or 200GB for FortiSIEM Manager	/cmdb
Data Disk LUN 2	60GB	/svn
Data Disk LUN 3	60GB+	/data (see the following note)

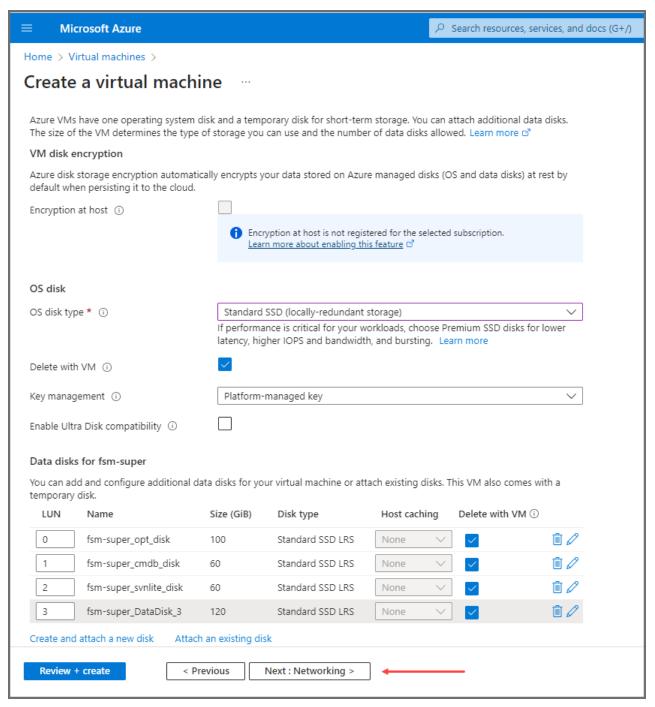
Note on Data Disk LUN 3:

- Add the 4th Data Disk only if using EventDB on local storage or ClickHouse. In all other cases, this disk is not required. ClickHouse is recommended for most deployments. Please see ClickHouse Reference Architecture for more information.
- For EventDB on local disk, choose a disk based on your EPS and event retention policy. See EventDB Sizing Guide for guidance. 60GB is the minimum.
- For ClickHouse, choose disks based on the number of Tiers and disks on each Tier. These depend on your EPS and event retention policy. See ClickHouse Sizing Guide for guidance. For example, you can choose 1 large disk for Hot Tier. Or you can choose 2 Tiers - Hot Tier comprised of one or more SSD disks and Warm Tier comprised of one or more magnetic hard disks.
- Choose Standard SSD volume type for all volumes. For the CMDB partition, you can choose to modify your
 volume type to Premium SSD or Ultra SSD based on your system workload if you see the consistently high
 IOPS requirement in your deployment.
- **a.** In the **Name** field, enter the name of the disk.
- b. In the Source type drop-down list, leave as None (empty disk).
- c. In the Size drop-down list, select Change size, select the Custom disk size (GiB) option, and enter the disk size in the available field.
- d. Click OK.
- e. For each new disk, click Create and attach a new disk and repeat steps a-d until all the necessary disks have

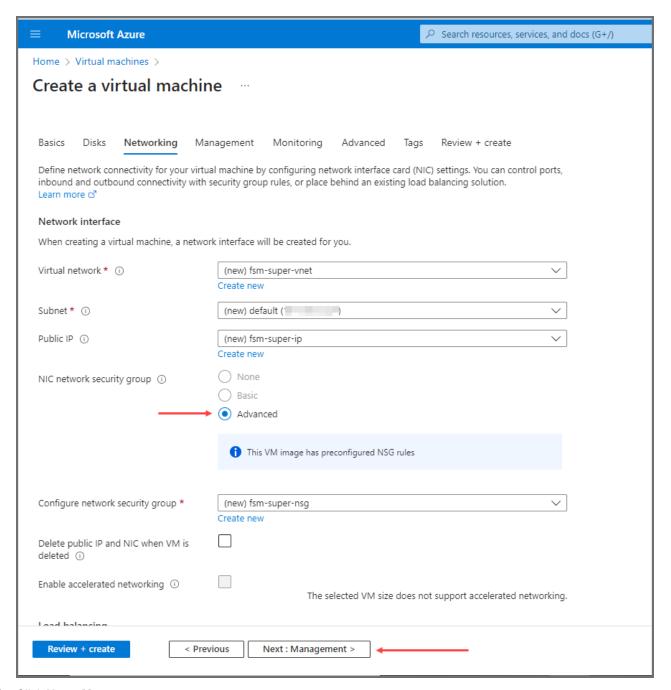
been created.



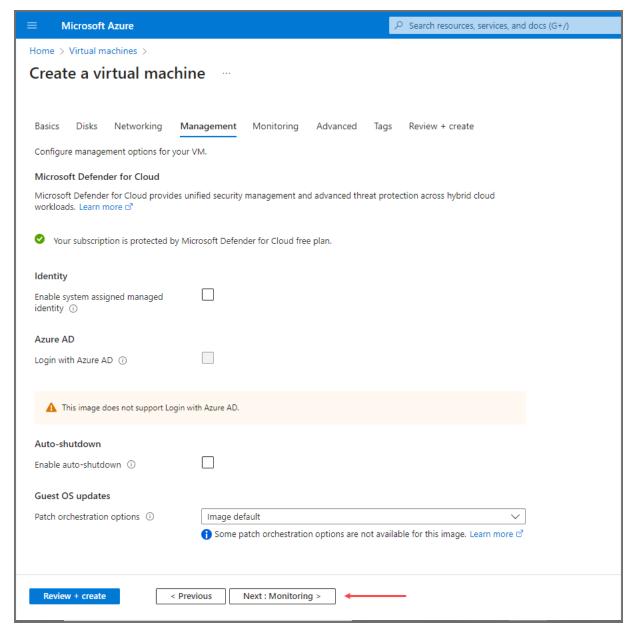
10. After entering your disk partition values, click **Next: Networking >**.



11. From the Networking page (Networking tab), accept the defaults except for **NIC network security groups**. For production, choose **Advanced** and configure the required inbound ports and IP addresses (refer to Azure documentation).

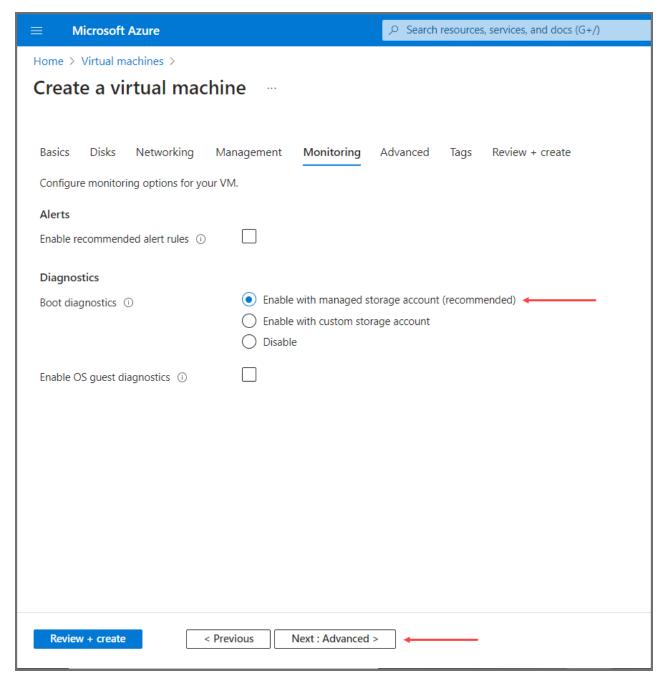


- 12. Click Next: Management >.
- **13.** From the Management page (Management tab), accept the defaults provided or change them as needed per the Azure documentation.
- 14. Click Next: Monitoring.

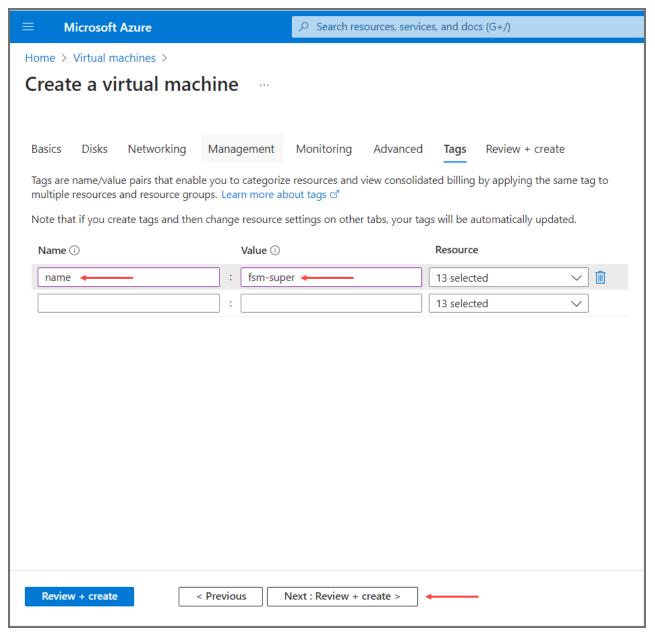


15. From the Monitoring page (Monitoring tab), under **Diagnostics**, select **Enable with managed storage account (recommended)**.

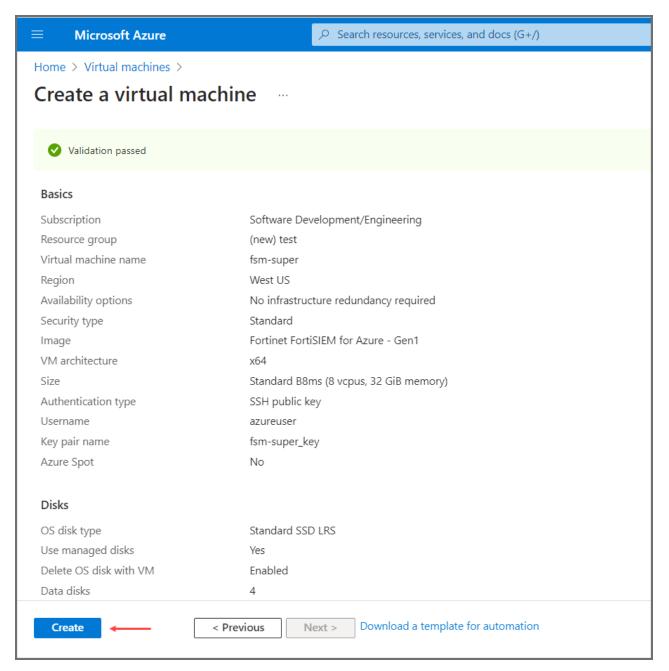
Click Next: Advanced >.



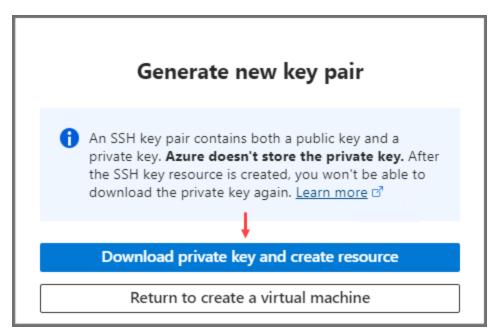
- 16. Leave Advanced settings alone, and click Next: Tags >.
- 17. From the Tags page (Tags tab), add a Name tag and any other tags as needed.



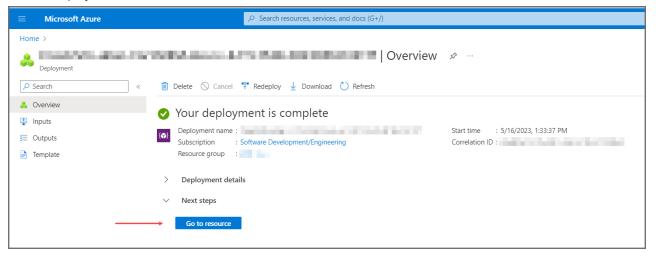
- 18. Click Next: Review + create >.
- 19. From the Review + create page tab, verify that all the information is correct. Click Create.



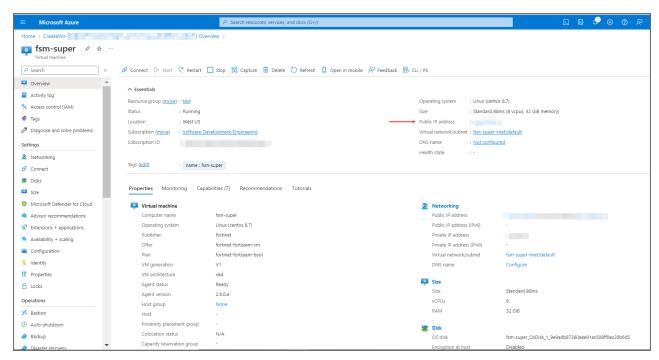
20. If you chose to create a new SSH key, then you will be asked to download the private key and create the resource. Click **Download private key and create resource**.



21. Wait for deployment to succeed. Click Go to resource.



22. Note the Public IP address and copy it to the clipboard.



- 23. (Optional) Configure the DNS name according to Azure documentation.
- **24.** SSH to the FortiSIEM VM with user azureuser (as specified here) and the downloaded SSH key. Run sudo su to become user root. Run configFSM.sh.

```
[$ ssh -i ~/.ssh/fsm-westus-ssh-key.pem azureuser@1 7 Last login: Tue Sep 22 17:55:11 2020 from 6 7 7 [[azureuser@super ~]$ sudo su - 4 Last login: Tue Sep 22 17:55:15 CDT 2020 on pts/0 [[root@super ~]# configFSM.sh 4 Last login: ~]# configFSM.sh 5 Last login: ~]# configFSM.sh 6 Last login: ~]# configFSM.sh 6
```

Configure FortiSIEM

Follow these steps to configure FortiSIEM by using a simple GUI.

- 1. At the root command prompt, go to /usr/local/bin and enter configFSM.sh, for example: # configFSM.sh
- 2. In VM console, select 1 Set Timezone and then press Next.



3. Select your Location, and press Next.



4. Select your Continent, and press Next.



5. Select the Country and City for your timezone, and press Next.



6. If installing a Supervisor, select **1 Supervisor**. Press **Next**.

If installing a Worker, select 2 Worker, and press Next.

If installing a Collector, select 3 Collector, and press Next.

If Installing FortiSIEM Manager, select 4 FortiSIEM Manager, and press Next.

If Installing FortiSIEM Supervisor Follower, select 5 Supervisor Follower and press Next.

Note: The appliance type cannot be changed once it is deployed, so ensure you have selected the correct option.





Regardless of whether you select **FortiSIEM Manager**, **Supervisor**, **Supervisor Follower**, **Worker**, or **Collector**, you will see the same series of screens with only the header changed to reflect your target installation, unless noted otherwise.

A dedicated ClickHouse Keeper uses a Worker, so first install a Worker and then in later steps configure the Worker as a ClickHouse Keeper.

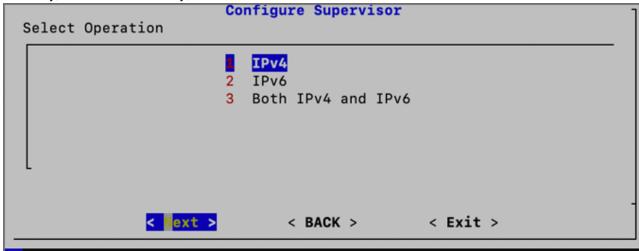
7. If you want to enable FIPS, then choose 2 install_with_fips. Otherwise, choose 1 install_without_fips. You have the option of enabling FIPS (option 3) or disabling FIPS (option 4) later. Note: After Installation, a 5th option to change your network configuration (5 change_network_config) is available. This allows you to change your network settings and/or host name.

```
Select Operation

install_without_fips
install_with_fips
install_with_fips
a enable_fips
disable_fips

< BACK > < Exit >
```

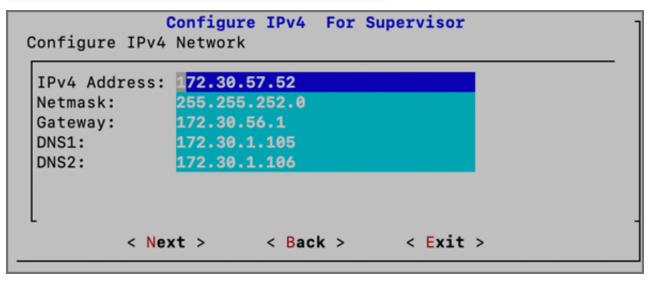
8. Determine whether your network supports IPv4-only, IPv6-only, or both IPv4 and IPv6 (Dual Stack). Choose **1** for IPv4-only, choose **2** for IPv6-only, or choose **3** for both IPv4 and IPv6.



- 9. If you choose 1 (IPv4) or choose 3 (Both IPv4 and IPv6), and press **Next**, then you will move to step 10. If you choose 2 (IPv6), and press **Next**, then skip to step 11.
- **10.** Configure the IPv4 network by entering the following fields. Press **Next**.

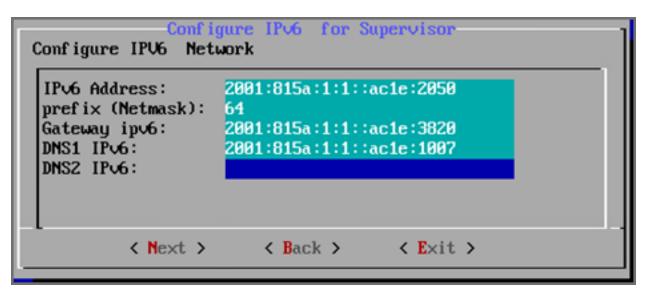
Option	Description
IPv4 Address	The Manager/Supervisor/Worker/Collector's IPv4 address

Option	Description
Netmask	The Manager/Supervisor/Worker/Collector's subnet
Gateway	Network gateway address
DNS1, DNS2	Addresses of the DNS servers



11. If you chose 1 in step 8, then you will need to skip to step 12. If you chose 2 or 3 in step 8, then you will configure the IPv6 network by entering the following fields, then press **Next**.

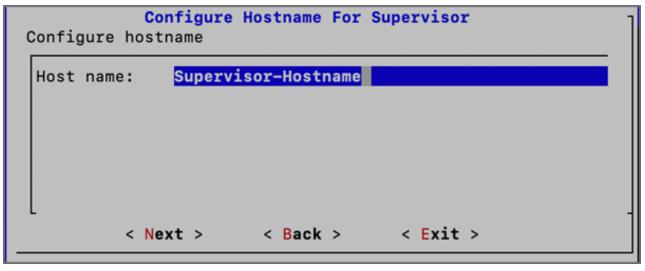
Option	Description
IPv6 Address	The Manager/Supervisor/Worker/Collector's IPv6 address
prefix (Netmask)	The Manager/Supervisor/Worker/Collector's IPv6 prefix
Gateway ipv6	IPv6 Network gateway address
DNS1 IPv6, DNS2 IPv6	Addresses of the IPv6 DNS server 1 and DNS server2



Note: If you chose option **3** in step 8 for both IPv4 and IPv6, then even if you configure 2 DNS servers for IPv4 and IPv6, the system will only use the first DNS server from IPv4 and the first DNS server from the IPv6 configuration.

Note: In many dual stack networks, IPv4 DNS server(s) can resolve names to both IPv4 and IPv6. In such environments, if you do not have an IPv6 DNS server, then you can use public IPv6 DNS servers or use IPv4-mapped IPv6 address.

12. Configure Hostname for the FortiSIEM Manager/Supervisor/Worker/Collector. Press Next.

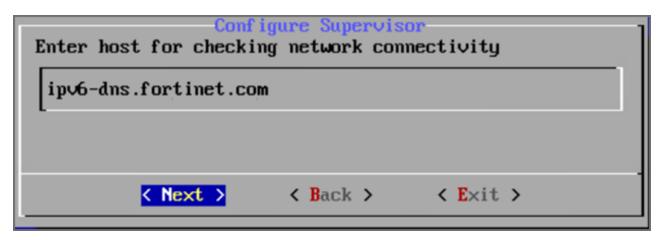


Note: FQDN is no longer needed.

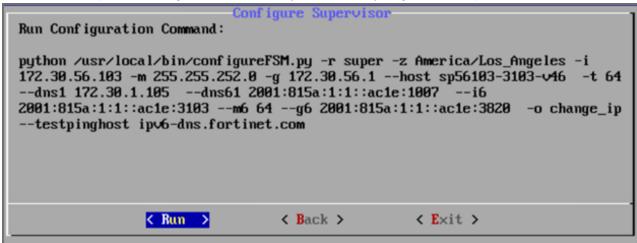
13. Test network connectivity by entering a host name that can be resolved by your DNS Server (entered in the previous step) and responds to ping. The host can either be an internal host or a public domain host like google.com. In order for the migration to complete, the system still needs https connectivity to FortiSIEM OS update servers - os-pkgs-cdn.fortisiem.fortinet.com and os-pkgs-c8.fortisiem.fortinet.com. Then, click Next.

Note: By default, "google.com" is shown for the connectivity test, but if configuring IPv6, you must enter an accessible internally approved IPv6 DNS server, for example: "ipv6-dns.fortinet.com"

Note: When configuring both IPv4 and IPv6, only testing connectivity for the IPv6 DNS is required because the IPv6 takes higher precedence. So update the host field with an approved IPv6 DNS server.



14. The final configuration confirmation is displayed. Verify that the parameters are correct. If they are not, then press **Back** to return to previous dialog boxes to correct any errors. If everything is OK, then press **Run**.



The options are described in the following table.

Option	Description
-r	The FortiSIEM component being configured
-Z	The time zone being configured
-i	IPv4-formatted address
-m	Address of the subnet mask
- g	Address of the gateway server used
host	Host name
-f	FQDN address: fully-qualified domain name
-t	The IP type. The values can be either 4 (for ipv4) or 6 (for v6) or 64 (for both IPv4 and IPv6).
dns1,dns2	Addresses of the DNS server 1 and DNS server 2.

Option	Description
i6	IPv6-formatted address
m6	IPv6 prefix
g6	IPv6 gateway
-0	Installation option (install_without_fips, install_with_fips, enable_fips, disable_fips, change_network_config*) *Option only available after installation.
-Z	Time zone. Possible values are US/Pacific , Asia/Shanghai , Europe/London , or Africa/Tunis
testpinghost	The URL used to test connectivity

15. It will take some time for this process to finish. When it is done, proceed to Upload the FortiSIEM License. If the VM fails, you can inspect the ansible.log file located at /usr/local/fresh-install/logs to try and identify the problem.

Upload the FortiSIEM License



Before proceeding, make sure that you have obtained valid FortiSIEM license from Forticare. For more information, see the Licensing Guide.

You will now be asked to input a license.

- 1. Open a Web browser and log in to the FortiSIEM UI. Use link https://<supervisor-ip> to login. Please note that if you are logging into FortiSIEM with an IPv6 address, you should input https://[IPv6 address] on the browser tab.
- 2. The License Upload dialog box will open.

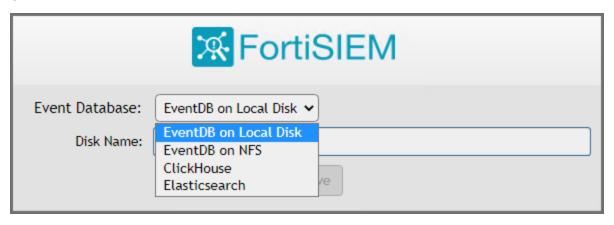


- 3. Click Browse and upload the license file.
 - Make sure that the **Hardware ID** shown in the License Upload page matches the license.
- 4. For **User ID** and **Password**, choose any **Full Admin** credentials.
 - For the first time installation, enter admin as the user and admin*1 as the password. You will then be asked to create a new password for GUI access.

- 5. For Supervisor, Worker, or Collector, choose License type as Enterprise or Service Provider. The following option will be available for first time installations. Once the database is configured, this option will not be available. For FortiSIEM Manager, License Type is not an available option, and will not appear. At this point, FortiSIEM Manager installation is complete. You will not be taken the Event Database Storage page, so you can skip Configure an Event Database.
 - **Note**: The FortiSIEM Manager license allows a certain number of instances that can be registered to FortiSIEM Manager.
- 6. Proceed to Configure an Event Database.

Configure an Event Database

Choose the event database.



If the Event Database is one of the following options, additional disk configuration is required.

- ClickHouse: See Case 2 in Creating ClickHouse Online Storage.

 Recommended for most deployments. Please see ClickHouse Reference Architecture for more information.
- EventDB on Local Disk: See Case 2 in Creating EventDB Online Storage.

Final Check

FortiSIEM installation is complete. If the installation is successful, the VM will reboot automatically. Otherwise, the VM will stop at the failed task.

You can inspect the ansible.log file located at /usr/local/fresh-install/logs if you encounter any issues during FortiSIEM installation.

After installation completes, ensure that the phMonitor is up and running, for example: # phstatus

For the Supervisor, Supervisor Follower, Worker and Collector, the response should be similar to the following.

agstem uprime. Zi.iz.e	2 up 1:11,	1 user, load	average: 0.16, 0	.28, 0.36
Tasks: 27 total, 0 runn Cpu(s): 16 cores, 6.2%				0.1
Cpu(s): 16 Cores, 6.220 Mem: 65702100k total, 1				
nem: 05702100K total, 1 Swap: 2621436k total, 2				s
swap. zoziisok totai, e	K USCU, LUCIT	JOK 1166, 240.	JOZOK CACHCA	
PROCESS	UPTIME	CPU2:	VIRT_MEM	RES_MEM
phParser	41:23		2176m	558m
phQueryMaster	41:41	0	1020m	77m
phRuleMaster	41:41	0	1079m	504m
phRuleWorker	41:41		1363m	285m
phQueryWorker	41:41	0	1383m	279m
phDataManager	41:41		1419m	285m
phDiscover	41:41	0	513m	53m
phReportWorker	41:41	0	1433m	95m
phReportMaster	41:41	0	603m	67m
phlpldentityWorker	41:41	0	1027m	58m
phlpldentityMaster	41:41	0	491m	39m
phAgentManager	41:41	0	1425m	54m
phCheckpoint	42:31	0	325m	34m
phPerfMonitor	41:41	0	782m	70m
phReportLoader	41:41	0	769m	278m
phBeaconEventPackager	41:41	0	1125m	65m
phDataPurger	41:41	0	588m	58m
phEventForwarder	41:41	0	548m	46m
phMonitor	37:24		2888m	53m
Apache	01:10:40	0	310m	16m
Node.js-charting	01:10:19	0	916m	71m
Node.js-pm2	01:10:13	0		26m
AppS∪r	01:10:07		15172m	3026m
DBS∪r	01:10:38		317m	30m
phAnoma ly	01:08:07		987m	64m
phFortiInsightAI	01:10:40		23432m	438m
Redis	01:10:18	Я	55m	25m

For FortiSIEM Manager, the response should look similar to the following.

```
Every 1.0s: /opt/phoenix/bin/phstatus.py
System uptime: 11:34:52 up 1 day, 1:39, 2 users, load average: 0.80, 0.88, 0.92
Tasks: 5 total, 0 running, 5 sleeping, 0 stopped, 0 zombie Cpu(s): 8 cores, 7.2%us, 0.2%sy, 0.0%ni, 92.3%id, 0.0%wa, 0.1%hi, 0.1%si, 0.0%st
Mem: 24468724k total, 6696192k used, 16212508k free, 5248k buffers
Swap: 26058744k total, 0k used, 26058744k free, 2352072k cached
PROCESS
                            UPTIME
                                             CPU2
                                                              UIRT_MEM
                                                                               RES_MEM
phMonitor
                            20:57:20
                                             0
                                                              1130m
                                                                               64m
Apache
                            1-01:20:00
                                             0
                                                              305m
                                                                               16m
Rsyslogd
                            1-01:38:42
                                             0
                                                              192m
                                                                               7388k
AppS∨r
                            1-01:38:34
                                             5
                                                              11153m
                                                                               4182m
DBSvr
                            1-01:38:43
                                             0
                                                              425m
                                                                               39m
```

Cluster Installation

For larger installations, you can choose Worker nodes, Collector nodes, and external storage (NFS, ClickHouse, or Elasticsearch).

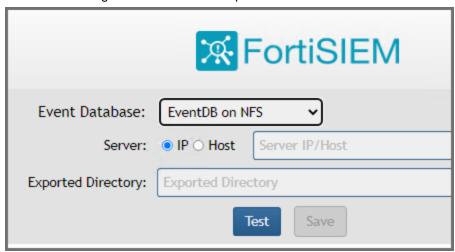
- Install Supervisor
- Install Workers
- Register Workers
- Create ClickHouse Topology (Optional)

- Install Collectors
- Register Collectors
- · Install Manager
- · Register Instances to Manager

Install Supervisor

Follow the steps in All-in-one Installation, except with the following differences.

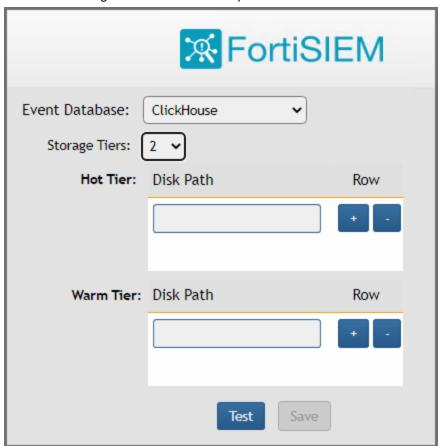
- 1. Event Database choices are **EventDB on NFS**, **ClickHouse**, or **Elasticsearch**.
- 2. If you choose EventDB on NFS
 - a. Disk 4 is not required (From Create a VM Using a FortiSIEM 6.7.4 Azure Marketplace Image Step 8).
 - b. You need to configure NFS after license upload.



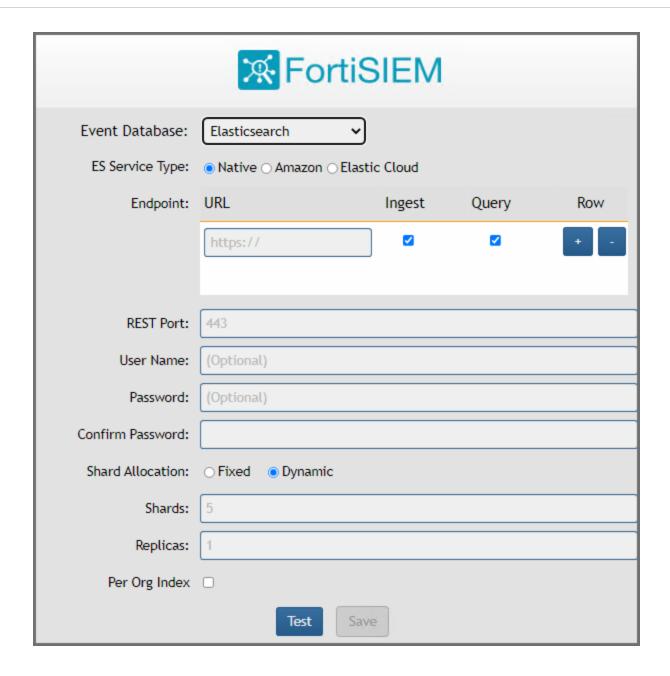
3. If you choose ClickHouse

a. You need to create disks during Create a VM Using a FortiSIEM 6.7.4 Azure Marketplace Image Step 8 based on the role of the Supervisor node in the ClickHouse cluster. See the ClickHouse Sizing Guide for details.

b. You need to configure disks after license upload.



4. If you choose **Elasticsearch**, define Elasticsearch endpoints after license upload. See the Elasticsearch Sizing Guide for details.



Install Workers

Once the Supervisor is installed, take the same steps in All-in-one Installation to install a Worker with the following differences.

- 1. Choose appropriate CPU and memory for the Worker nodes based on Sizing guide.
- 2. Two hard disks for Operating Systems and FortiSIEM Application:
 - OS 25GB
 - OPT 100GB

For OPT - 100GB, the 100GB disk for /opt will consist of a single disk that will split into 2 partitions, /OPT and swap. The partitions will be created and managed by FortiSIEM when <code>configFSM.sh</code> runs.

3. If you are running ClickHouse, then create additional data disks based on the role of the Worker in ClickHouse topology. If it is a Keeper node, then a smaller disk is needed. If it is a data node, then a bigger disk is needed based on your EPS and retention policy. See ClickHouse Sizing Guide for details.

Sizing Guide References:

- · ClickHouse Sizing Guide
- EventDB Sizing Guide
- · Elasticsearch Sizing Guide

Register Workers

Once the Worker is up and running, add the Worker to the Supervisor node.

- 1. Go to ADMIN > License > Nodes.
- 2. Select Worker from the **Mode** drop-down list and enter the following information:
 - a. In the Host Name field, enter the Worker's host name.
 - b. In the IP Address field, enter the Worker's IP address.
 - **c.** If you are running ClickHouse, then select the number for Storage Tiers from the **Storage Tiers** drop-down list, and input disk paths for disks in each Tier in the **Disk Path** fields.

For **Disk Path**, use one of the following CLI commands to find the disk names.

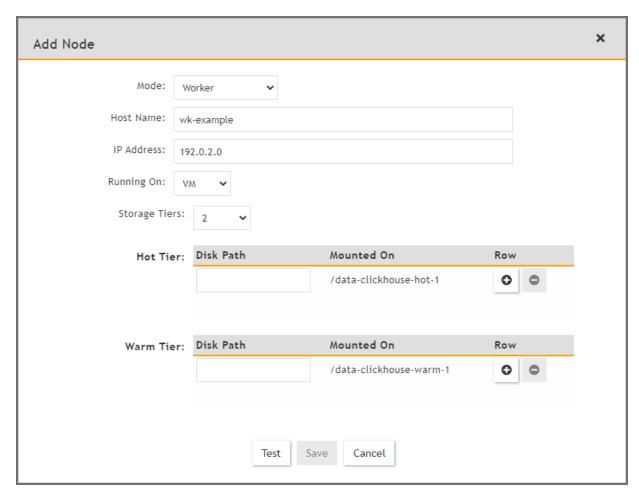
```
fdisk -l
```

or

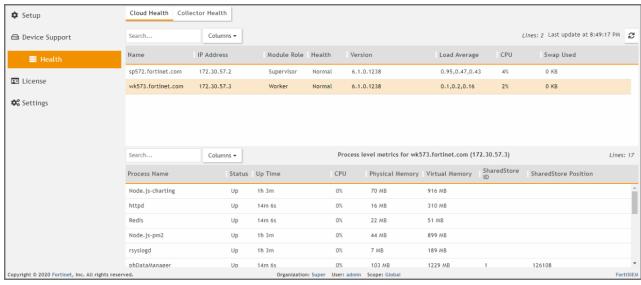
lsblk

When using lsblk to find the disk name, please note that the path will be /dev/<disk>. As an example, /dev/vdc.

d. Click Test.



- e. If the test succeeds, then click Save.
- 3. See ADMIN > Health > Cloud Health to ensure that the Workers are up, healthy, and properly added to the system.



4.

Create ClickHouse Topology (Optional)

If you are running ClickHouse, you need to configure ClickHouse topology by specifying which nodes belong to ClickHouse Keeper and Data Clusters. Follow the steps in Configuring ClickHouse Topology.

Install Collectors

Once Supervisor and Workers are installed, follow the same steps in All-in-one Install to install a Collector except when adding disks, you need to only add a data disk for OPT. The recommended settings for Collector node are:

- CPU = 4
- Memory = 8GB
- · Two hard disks:
 - OS 25GB
 - OPT 100GB

For OPT - 100GB, the 100GB disk for /opt will consist of a single disk that will split into 2 partitions, /OPT and swap. The partitions will be created and managed by FortiSIEM when configFSM.sh runs.

Register Collectors

Collectors can be deployed in Enterprise or Service Provider environments.

- · Enterprise Deployments
- · Service Provider Deployments

Enterprise Deployments

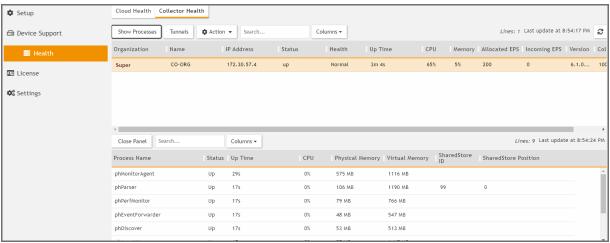
For Enterprise deployments, follow these steps.

- 1. Log in to Supervisor with 'Admin' privileges.
- 2. Go to ADMIN > Settings > System > Cluster Config.
 - **a.** Enter the IP of the Worker node in the **Event Upload Workers** column. If a Supervisor node is only used, then enter the IP of the Supervisor node. Multiple IP addresses can be entered on separate lines. In this case, the Collectors will load balance the upload of events to the listed Event Workers.
 - **Note**: Rather than using IP addresses, a DNS name is recommended. The reasoning is, should the IP addressing change, it becomes a matter of updating the DNS rather than modifying the Event Worker IP addresses in FortiSIEM.
 - b. Click Save.
 - c. In the **Supervisors** column, enter the IP of the Supervisor node and click **Save**.
- 3. Go to ADMIN > Setup > Collectors and add a Collector by entering:
 - a. Name Collector Name
 - **b. Guaranteed EPS** this is the EPS that Collector will always be able to send. It could send more if there is excess EPS available.
 - c. Start Time and End Time set to Unlimited.
- 4. SSH to the Collector and run following script to register Collectors:

```
phProvisionCollector --add <user> '<password>' <Super IP or Host> <Organization>
<CollectorName>
```

The password should be enclosed in single quotes to ensure that any non-alphanumeric characters are escaped.

- a. Set user and password using the admin user name and password for the Supervisor.
- b. Set Super IP or Host as the Supervisor's IP address.
- c. Set Organization. For Enterprise deployments, the default name is Super.
- d. Set CollectorName from Step 2a.The Collector will reboot during the Registration.
- 5. Go to ADMIN > Health > Collector Health for the status.



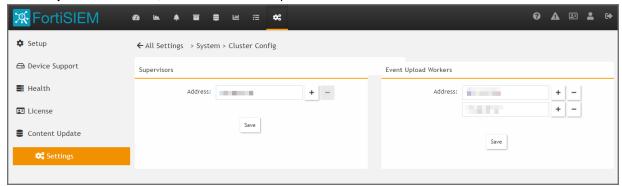
Service Provider Deployments

For Service Provider deployments, follow these steps.

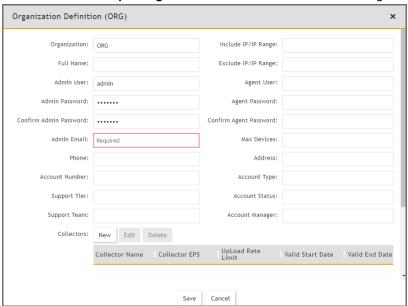
- 1. Log in to Supervisor with 'Admin' privileges.
- 2. Go to ADMIN > Settings > System > Event Worker.
 - a. Enter the IP of the Worker node. If a Supervisor node is only used, then enter the IP of the Supervisor node. Multiple IP addresses can be entered on separate lines. In this case, the Collectors will load balance the upload of events to the listed Event Workers.

Note: Rather than using IP addresses, a DNS name is recommended. The reasoning is, should the IP addressing change, it becomes a matter of updating the DNS rather than modifying the Event Worker IP addresses in FortiSIEM.

- b. Click OK.
- c. In the Supervisors column, enter the IP of the Supervisor node and click Save.

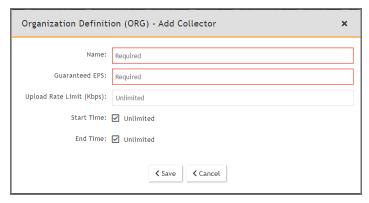


3. Go to ADMIN > Setup > Organizations and click New to add an Organization.



- 4. Enter the Organization Name, Admin User, Admin Password, and Admin Email.
- 5. Under Collectors, click New.
- 6. Enter the Collector Name, Guaranteed EPS, Start Time, and End Time.

The last two values could be set as **Unlimited**. **Guaranteed EPS** is the EPS that the Collector will always be able to send. It could send more if there is excess EPS available.



7. SSH to the Collector and run following script to register Collectors:

phProvisionCollector --add <user> '<password>' <Super IP or Host> <Organization>
<CollectorName>

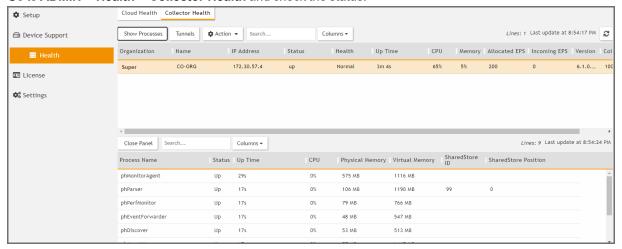
The password should be enclosed in single quotes to ensure that any non-alphanumeric characters are escaped.

- **a.** Set user and password using the admin user name and password for the Organization that the Collector is going to be registered to.
- **b.** Set Super IP or Host as the Supervisor's IP address.
- **c.** Set Organization as the name of an organization created on the Supervisor.
- d. Set CollectorName from Step 6.

```
Iroot@co574 ~10 phProvisionCollector
Usage: phProvisionCollector—add cOrganization-user-name> (Organization-user-password> (Supervisor-IF) (Organization-name> (Collector-name)
Troot@co574 ~10 phProvisionCollector—add admin #dmin*11 172.38.57.2 URG CO-ORG
Continuing to provision the Collector
This collector is registered successfully. Normal Exit and restart of phMonitor after collector license registration.
Iroot@co574 ~10 ____
```

The Collector will reboot during the Registration.

8. Go to ADMIN > Health > Collector Health and check the status.



Install Manager

Starting with release 6.5.0, you can install FortiSIEM Manager to monitor and manage multiple FortiSIEM instances. An instance includes a Supervisor and optionally, Workers and Collectors. The FortiSIEM Manager needs to be installed on a separate Virtual Machine and requires a separate license. FortiSIEM Supervisors must be on 6.5.0 or later versions.

Follow the steps in All-in-one Install to install Manager. After any Supervisor, Workers, and Collectors are installed, you add the Supervisor instance to Manager, then Register the instance to Manager. See Register Instances to Manager.

Register Instances to Manager

To register your Supervisor instance with Manager, you will need to do two things in the following order.

- First, add the instance to Manager
- · Then register the instance itself to Manager

Note that Communication between FortiSIEM Manager and instances is via REST APIs over HTTP(S).

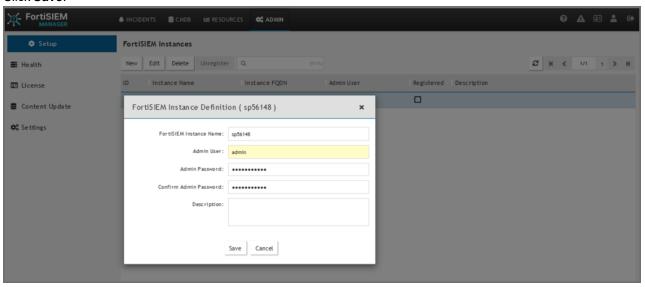
Adding Instance to Manager

You can add an instance to Manager by taking the following steps.

Note: Make sure to record the FortiSIEM Instance Name, Admin User and Admin Password, as this is needed when you register your instance.

- 1. Login to FortiSIEM Manager.
- 2. Navigate to ADMIN > Setup.
- 3. Click New.
- 4. In the FortiSIEM Instance field, enter the name of the Supervisor instance you wish to add.
- 5. In the Admin User field, enter the Account name you wish to use to access Manager.
- 6. In the Admin Password field, enter the Password that will be associated with the Admin User account.
- 7. In the Confirm Admin Password field, re-enter the Password.

- 8. (Optional) In the **Description** field, enter any information you wish to provide about the instance.
- 9. Click Save.



10. Repeat steps 1-9 to add any additional instances to Manager.

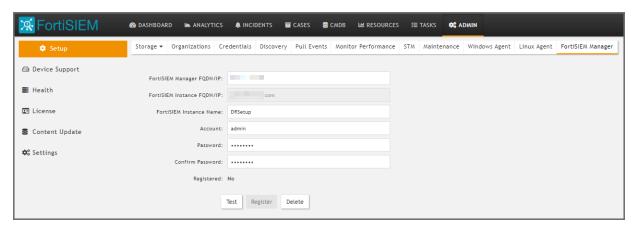
Now, follow the instructions in Register the Instance Itself to Manager for each instance.

Register the Instance Itself to Manager

To register your instance with Manager, take the following steps.

- 1. From your FortiSIEM Supervisor/Instance, navigate to **ADMIN > Setup > FortiSIEM Manager**, and take the following steps.
 - **a.** In the **FortiSIEM Manager FQDN/IP** field, enter the FortiSIEM Manager Fully Qualified Domain Name (FQDN) or IP address.
 - **b.** If the Supervisor is under a Supervisor Cluster environment, in the **FortiSIEM super cluster FQDN/IP** field, enter the Supervisor Cluster Fully Qualified Domain Name (FQDN) or IP address.
 - c. In the FortiSIEM Instance Name field, enter the instance name used when adding the instance to Manager.
 - d. In the Account field, enter the Admin User name used when adding the instance to Manager.
 - e. In the Password field, enter your password to be associated with the Admin User name.
 - f. In the Confirm Password field, re-enter your password.
 - g. Click Test to verify the configuration.
 - h. Click Register.

A dialog box displaying "Registered successfully" should appear if everything is valid.



- i. Login to Manager, and navigate to any one of the following pages to verify registration.
 - ADMIN > Setup and check that the box is marked in the Registered column for your instance.
 - ADMIN > Health, look for your instance under FortiSIEM Instances.
 - ADMIN > License, look for your instance under FortiSIEM Instances.

Install Log

The install ansible log file is located here: /usr/local/fresh-install/logs/ansible.log.

Errors can be found at the end of the file.



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