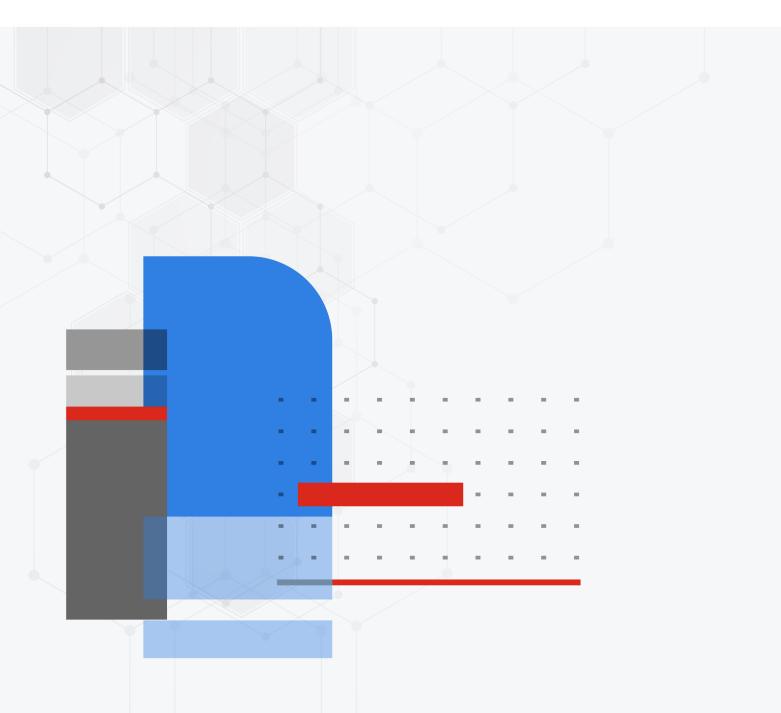


Azure Installation Guide

FortiSIEM 6.7.2



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10/03/2023 FortiSIEM 6.7.2 Azure Installation Guide

TABLE OF CONTENTS

Change Log	4
Fresh Installation	6
Pre-Installation Checklist	6
All-in-one Installation	7
Find the FortiSIEM Offer in Azure Using the Azure Marketplace	8
Create a VM Using a FortiSIEM 6.7.2 Azure Marketplace Image	9
Configure FortiSIEM	
Upload the FortiSIEM License	
Configure an Event Database	
Final Check	
Cluster Installation	
Install Supervisor	
Install Workers	
Register Workers	
Create ClickHouse Topology (Optional)	
Install Collectors	
Register Collectors	34
Install Manager	
Register Instances to Manager	
Install Log	

Change Log

Date	Change Description
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 6.5.0.
07/26/2022	Release of Azure Installation Guide for 6.6.0.
08/18/2022	Updated All-in-one Installation section.
09/12/2022	Release of Azure Installation Guide for 6.5.1.
09/14/2022	Release of Azure Installation Guide for 6.6.1.
09/19/2022	Release of Azure Installation Guide for 6.6.2.
10/20/2022	Updated Register Collectors instructions for 6.x guides.
01/03/2023	Release of Azure Installation Guide for 6.7.0.
02/13/2023	Release of Azure Installation Guide for 6.7.1.

Change Log

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
 - EventDB on NFS
 - Elasticsearch
 - Archive There are 2 choices
 - 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 6.7.2 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.

$\leftrightarrow \rightarrow C \odot htt$	ps://portal.azure.com/	
≡ Microsoft Azure		resources, services, and docs (G+/)
Home >		
Marketplace		
Get Started		
Service Providers	🔎 fortisiem	× Pricing : All ×
Management	Azure benefit eligible only 🛈	Azure services only
	Showing 1 to 2 of 2 results for ' fortisi	em'. <u>Clear search</u>
Private Marketplace Private Offer Management	🔗 You have 2 results customized for yo	our organization in private products. <u>View private products</u>
My Marketplace	Fortinet FortiSIEM - SIEM &	FortiSIEM - SIEM, Log
Favorites	Analytics Fortinet	Analytics
Recently created	Virtual Machine	Azure Application
Private products	Fortinet FortiSIEM provides multi- vendor SIEM, Analytics, Reporting	Fortinet FortiSIEM provides multi- vendor SIEM, Analytics, Reporting
Categories	and Alerting	and Alerting
Analytics (2)	Bring your own license	Price varies
Monitoring & Diagnostics (2)	Create ✓ ✓	Create 🗸 🗢
AI + Machine Learning (0)		
Blockchain (0)		
Compute (0)	Previous Page 1 V of 1	Next

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 6.7.2 Azure Marketplace Image to continue.

Create a VM Using a FortiSIEM 6.7.2 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.

← → C 🌲 portal.azure.com/#create/Microsoft.VirtualMachine-ARM		
\equiv Microsoft Azure		
Home > Virtual machines > Create a virtual machir	1e	
Create a virtual machine that runs Linux o image. Complete the Basics tab then Revie for full customization. Learn more a	nagement Monitoring Advanced Tags Review + create or Windows. Select an image from Azure marketplace or use your own customized ew + create to provision a virtual machine with default parameters or review each tab	
Project details Select the subscription to manage deploy your resources.	ed resources and costs. Use resource groups like folders to organize and manage all	
Subscription * ① Resource group * ①	✓ (New) test ✓ Create new	
Instance details		
Virtual machine name * 🥡	→ fsm-super ✓	
Region * 🛈	(US) West US 🗸	
Availability options (i)	No infrastructure redundancy required \checkmark	
Security type 🕕	Standard 🗸	
Image * 🛈 ——————————————————————————————————	See all images Configure VM generation	
VM architecture ①	 Arm64 x64 	
Review + create < Prev	vious Next : Disks >	

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.

← → C portal.azure.com/#create/Microsoft.VirtualMachine-ARM		
\equiv Microsoft Azure	\wp Search resources, services, and docs (G+/)	
Home > Virtual machines >		
Create a virtual machir	ie	
Image * 🛈	Eortinet FortiSIEM for Azure - x64 Gen1 See all images Configure VM generation	\checkmark
VM architecture ①	 Arm64 x64 	
	Arm64 is not supported with the selected image.	
Run with Azure Spot discount $~$		
Size * (i)	Standard_B8ms - 8 vcpus, 32 GiB memory (\$289.81/month) See all sizes	\checkmark
Administrator account		
Authentication type 🛈 🛛 🔶	SSH public key Password	
	Azure now automatically generates an SSH key pair for you and allows you to store it for future use. It is a fast, simple, and secure way to connect to your virtual machine.	
Username * 🛈 🛛 🛶	azureuser	~
SSH public key source	Generate new key pair	\checkmark
Key pair name *	fsm-super_key	~
Review + create < Prev	vious Next : Disks >	

- 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.sh runs.
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.

\leftarrow \rightarrow C $$ port	al.azure.com/#view/Microsoft_Azure_Compute/CreateDataDiskBlade/:
\equiv Microsoft Azure	
Home > Virtual machines > Cre Create a new disk	eate a virtual machine >
Create a new disk to store application type, and number of transactions. Lea	is and data on your VM. Disk pricing varies based on factors including disk size, storage arn more d
Name *	fsm-super_opt_disk <
Source type * ①	None (empty disk)
Size * 🛈	100 GiB Standard SSD LRS Change size
Key management 🕠	Platform-managed key
Enable shared disk	🔿 Yes 💿 No
Delete disk with VM	
ОК	

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

Microsoft Azure				$\mathcal P$ -Search resources, services, and docs (G+,
Home > Virtual machines >				
Create a virtual mach	ine			
Azure VMs have one operating system The size of the VM determines the type				
VM disk encryption				
Azure disk storage encryption automat default when persisting it to the cloud.		our data stored on Azur	e managed disk	ks (OS and data disks) at rest by
Encryption at host (i)				
		ryption at host is not regis rn more about enabling th		ected subscription.
OS disk				
OS disk type * 🕠	Standard	SSD (locally-redundant	storage)	\checkmark
		ance is critical for your w gher IOPS and bandwidt		se Premium SSD disks for lower
Delete with VM 🛈	 Image: A second s		. 5	
Key management (i)	Platform	managed key		\checkmark
Enable Ultra Disk compatibility 🛈				
Data disks for fsm-super You can add and configure additional o temporary disk.	data disks for yo	ur virtual machine or at	ach existing dis	sks. This VM also comes with a
LUN Name	Size (GiB)	Disk type	Host cachin	ng Delete with VM 🛈
0 fsm-super_opt_disk	100	Standard SSD LRS	None	 Image: Image: Ima
1 fsm-super_cmdb_disk	60	Standard SSD LRS	None	 Î
2 fsm-super_svnlite_disk	60	Standard SSD LRS	None	 Î
3 fsm-super_DataDisk_3	120	Standard SSD LRS	None	Image: A state of the state
Create and attach a new disk Attac	h an existing di	sk		
Paulau Laurata -		Name - Name	1	
Review + create < F	revious	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).

■ Microsoft Azure		${\cal P}$ Search resources, services, and docs (G+/)
Home > Virtual machines >		
Create a virtual machine		
Basics Disks Networking Ma	nagement Monitoring Advanced Tag	gs Review + create
	al machine by configuring network interface card (security group rules, or place behind an existing lo	
Network interface		
When creating a virtual machine, a netwo	k interface will be created for you.	
Virtual network * (i)	(new) fsm-super-vnet	
	Create new	
Subnet * 🕡	(new) default (~
Public IP (i)	(new) fsm-super-ip	~
	Create new	
NIC network security group ①	None	
	Basic Advanced	
	1 This VM image has preconfigured NSG rules	
Configure network security group *	(new) fsm-super-nsg	~
	Create new	
Delete public IP and NIC when VM is deleted ①		
Enable accelerated networking 🛈	The selected VM size does	not support accelerated networking.
Load balancing		
Review + create < Prev	rious Next : Management > 🛛 🛶	

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.

Fresh Installation

≡ Microsoft Azure		$\mathcal P$ Search resources, services, and docs (G+/)
Home > Virtual machines >		
Create a virtual machine		
Basics Disks Networking Manage	ement Monitoring Advanced Ta	ags Review + create
Configure management options for your VM.		
Microsoft Defender for Cloud		
Microsoft Defender for Cloud provides unified workloads. Learn more 며	security management and advanced threat p	protection across hybrid cloud
 Your subscription is protected by Microso 	ft Defender for Cloud free plan.	
Identity		
Enable system assigned managed identity ①]	
Azure AD		
Login with Azure AD ①]	
A This image does not support Login with Az	ure AD.	
Auto-shutdown		
Enable auto-shutdown 🛈]	
Guest OS updates		
	nage default	~
0	Some patch orchestration options are not a	vailable for this image. Learn more 🗹
Review + create < Previous	Next : Monitoring >	

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

Click Next: Advanced >.

\equiv Microsoft Azure	\wp Search resources, services, and docs (G+/)
Home > Virtual machines >	
Create a virtual machine	
Basics Disks Networking Management	Monitoring Advanced Tags Review + create
Configure monitoring options for your VM.	
Alerts	
Enable recommended alert rules ①	
Diagnostics	
Diagnostics	e with managed storage account (recommended) 🔶
	e with custom storage account
O Disab	_
Enable OS guest diagnostics 🕕	
Review + create < Previous	Next : Advanced >

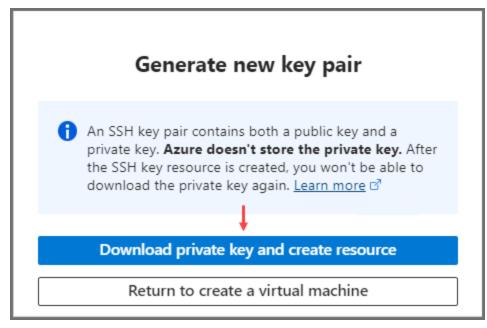
- 16. Leave Advanced settings alone, and click Next: Tags >.
- 17. From the Tags page (Tags tab), add a Name tag and any other tags as needed.

≡ Microsoft Azure		resources, services, and docs (G+/)	
Home > Virtual machines >			
Create a virtual mac	hine		
Basics Disks Networking	Management Monitoring	Advanced Tags Review +	create
Tags are name/value pairs that enabl multiple resources and resource grou		d view consolidated billing by applying	the same tag to
Note that if you create tags and ther	n change resource settings on otl	ner tabs, your tags will be automatically	updated.
Name (i)	Value (i)	Resource	
name 🔶	: fsm-super 🔶	• 13 selected	✓ 🔟
	:	13 selected	\sim
Review + create	Previous Next : Review	+ create >	

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

≡ Microsoft Azure	\wp Search resources, services, and docs (G+/)
Home > Virtual machines >	
Create a virtual machine	
Validation passed	
Basics	
Subscription	Software Development/Engineering
Resource group	(new) test
Virtual machine name	fsm-super
Region	West US
Availability options	No infrastructure redundancy required
Security type	Standard
Image	Fortinet FortiSIEM for Azure - Gen1
VM architecture	x64
Size	Standard B8ms (8 vcpus, 32 GiB memory)
Authentication type	SSH public key
Username	azureuser
Key pair name	fsm-super_key
Azure Spot	No
Disks	
OS disk type	Standard SSD LRS
Use managed disks	Yes
Delete OS disk with VM	Enabled
Data disks	4
Create 🔶	< Previous Next > Download a template for automation

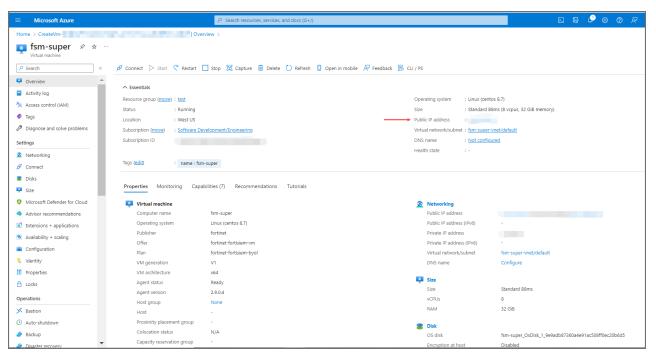
20. If you chose to create a new SSH key, then you will be asked to download the private key and create the resource. Click **Download private key and create resource**.



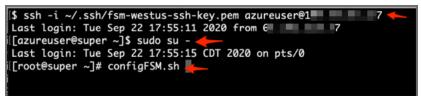
21. Wait for deployment to succeed. Click Go to resource.

	∠ Search resources, services, and docs (G+/)
Home > Deployment	■ Delete O Cancel T Redeploy U Download C Refresh
Cverview Inputs Cutputs Template	Vour deployment is complete Deployment name : Start time : 5/16/2023, 1:33:37 PM Subscription : Software Development/Engineering Resource group :
	 Deployment details Vext steps 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.



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.

Set TimeZone	Configure TIMEZONE	1
	1 Yes 2 No	
K	<u>Mext ></u> < Exit >	

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.

Select what you wou	Config Target ld like to configure	
4	<mark>Supervisor</mark> Worker Collector FortiSIEM Manager Supervisor Follower	
K Next >	<pre> Back > < Exit > </pre>	



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.

C Select Operation	ontigure Supervisor	
2 3 4	<pre>install_without_fips install_with_fips enable_fips disable_fips</pre>	
< Next >	< 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.

Select Operation	Configure Supervisor
	2 IPv6
	3 Both IPv4 and IPv6
	-
< Next >	< BACK > < Exit >

- 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

TI AL LOOD!	72.30.57.52	
Netmask: 2	55.255.252.0	
Gateway: 1	72.30.56.1	
DNS1: 1	72.30.1.105	
DNS2:	72.30.1.106	

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

Configure IPV6 Net IPv6 Address: prefix (Netmask): Gateway ipv6: DNS1 IPv6: DNS2 IPv6:	gure IPv6 for Supervisor- work 2001:815a:1:1::ac1e:2050 64 2001:815a:1:1::ac1e:3820 2001:815a:1:1::ac1e:1007	
< Next >	<pre>< Back > < Exit ></pre>	

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.

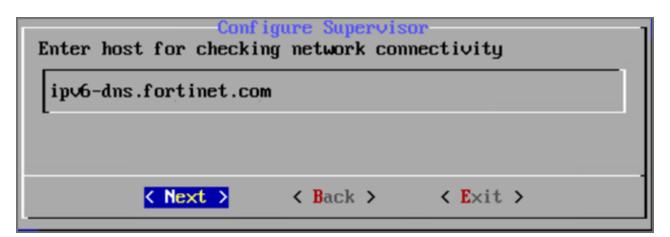
Configure ho	-	e For Supervisor
Host name:	Supervisor-Hos	tname
l		
<	Next > < Bac	k > < Exit >

Note: FQDN is no longer needed.

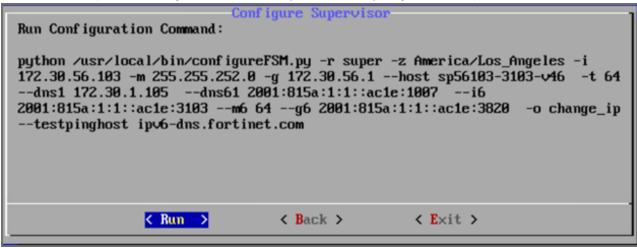
13. Test network connectivity by entering a host name that can be resolved by your DNS Server (entered in the previous step) and responds to ping. The host can either be an internal host or a public domain host like google.com. In order for the migration to complete, the system still needs https connectivity 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.

FortiSIEM				
Hardware ID:	17082942-2e97-01cd-7f81-d0eb9fd682f2			
Select license file:	Browse			
User ID:				
Password:				
License Type:	● Enterprise ○ Service Provider			
	Upload			

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.

- 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.

FortiSIEM			
Event Database:	EventDB on Local Disk 🗸		
Disk Name:	EventDB on Local Disk EventDB on NFS ClickHouse Elasticsearch	/e	

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.

Every 1.8s: /opt/phoen System uptime: 21:12: Tasks: 27 total, 0 run Cpu(s): 16 cores, 6.2/ Mem: 65782180k total, Swap: 2621436k total,	02 up 1:11, ning, 26 sleep us, 2.1%sy, 0.1 10366036k used	1 user, load ing, Ø stopped 8%ni, 91.4%id , 55336064k fi	d, 0 zombie , 0.0χωα, 0.2χhi, ree, 4352k buffer:	0.1%si, 0.0%st
PROCESS	UPTIME	CPU%	VIRT_MEM	RES_MEM
phParser	41:23	Ø	2176m	558m
phQueruMaster	41:41	й Й	1020m	77m
phRuleMaster	41:41	Й	1079m	504m
phRuleWorker	41:41	Ø	1363m	285m
phQueryWorker	41:41	ø	1383m	279m
phDataManager	41:41	0	1419m	285m
phDatananager phDiscover	41:41	Й	513m	53m
phReportWorker	41:41	0	1433m	95m
phReportMaster	41:41	ø	603m	67m
phipidentituWorker	41:41	0	1027m	58m
phIpIdentityMaster	41:41	0	491m	39m
phAgentManager	41:41	0	1425m	54m
phGpeckpoint	42:31	8	325m	34m
pheneckpoint	41:41	й	782m	20m
phReportLoader	41:41	Ø	769m	278m
phBeaconEventPackager	41:41	8	1125m	65m
phDataPurger	41:41	8	588m	58m
phEventForwarder	41:41	Ø	548m	46m
phMonitor	37:24	9	2888m	53m
Apache	01:10:40	9	310m	16m
Node.js-charting	01:10:19	я	916m	71m
Node.js-pm2	01:10:13	0	9101	26m
AppSvr	01:10:13	р р	15172m	3826m
DBSor	01:10:38	P	317m	38m
phAnomalu	01:08:07	Ø	987m	50m 64m
phFortiInsightAI	01:10:40	0	23432m	438m
Phrort i insignthi Redis	01:10:40	и Я	23432M 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	CPU%	VIRT_MEM	RES_MEM
ph M onitor	20:57:20	0	1130m	64m
Apache	1-01:20:00	0	305m	16m
Rsyslogd	1-01:38:42	0	192m	7388k
AppSvr	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 6.7.2 Azure Marketplace Image Step 8).
 - b. You need to configure NFS after license upload.

	FortiSIEM
Event Database:	EventDB on NFS V
Server:	IP O Host Server IP/Host
Exported Directory:	Exported Directory
	Test

3. If you choose ClickHouse

a. You need to create disks during Create a VM Using a FortiSIEM 6.7.2 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.

	🔆 FortiSl	EM
Event Database:	ClickHouse V	
Hot Tier:	Disk Path	Row +
Warm Tier:	Disk Path	Row + -
	Test Save]

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

	🔀 FortiS	SIEM		
Event Database:	Elasticsearch 🗸			
ES Service Type:	● Native ○ Amazon ○ Elasti	ic Cloud		
Endpoint:	URL	Ingest	Query	Row
	https://		•	•
REST Port:	443			
User Name:	(Optional)			
Password:	(Optional)			
Confirm Password:				
Shard Allocation:	⊖ Fixed			
Shards:	5			
Replicas:	1			
Per Org Index				
	Test	2		

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 configFSM.shruns.

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.

Add Node				×
Mode: W	'orker 🗸			
Host Name: W	-example			
IP Address: 19	2.0.2.0			
Running On: V	M ~			
Storage Tiers:	2 🗸			
Hot Tier:	Disk Path	Mounted On	Row	
		/data-clickhouse-hot-1	•	
Warm Tier:	Disk Path	Mounted On	Row	
		/data-clickhouse-warm-1	•	
	Test	Save Cancel		

- 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.

	Cloud Health Colle	ector Health							
🖨 Device Support	Search	Columns 🕶						Lines: 2 Last update at 8:4	49:17
🚍 Health	Name	IP Address	Module Role	Health Ve	rsion	Load Average	CPU	Swap Used	
	sp572.fortinet.com	172.30.57.2	Supervisor	Normal 6.	1.0.1238	0.95,0.47,0.43	3 4%	0 KB	
License	wk573.fortinet.com	172.30.57.3	Worker	Normal 6.	1.0.1238	0.1,0.2,0.16	2%	0 KB	
🕫 Settings									
	Search	Columns -		Process	s level metrics for wk5	73.fortinet.com (17	2.30.57.3)		Li
	Search Process Name		Up Time	Process	s level metrics for wk5		2.30.57.3) SharedStore ID	SharedStore Position	Li
			Up Time 1h 3m					SharedStore Position	Li
	Process Name	Status		CPU	Physical Memory	Virtual Memory		SharedStore Position	Li
	Process Name Node.js-charting	Status Up	1h 3m	: CPU 0%	Physical Memory 70 MB	Virtual Memory 916 MB		SharedStore Position	L
	Process Name Node.js-charting httpd	Status Up Up	1h 3m 14m 6s	: CPU 0% 0%	Physical Memory 70 MB 16 MB	Virtual Memory 916 MB 310 MB		SharedStore Position	Li
	Process Name Node.js-charting httpd Redis	Status Up Up Up	1h 3m 14m 6s 14m 6s	CPU 0% 0%	Physical Memory 70 MB 16 MB 22 MB	Virtual Memory 916 MB 310 MB 51 MB		SharedStore Position	Li

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.shruns.

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.

🌣 Setup	Cloud Health C	ollector Health										
🗇 Device Support	Show Processes	Tunnels 🏚	Action - Sear		Columns 🕶				Lines: 1	Last update at	8:54:17 PM	ø
📑 Health	Organization	Name	IP Address	Status	Health	Up Time	CPU	Memory	Allocated EPS	Incoming EPS	Version	Col
I License	Super	CO-ORG	172.30.57.	4 up	Normal	3m 4s	65%	5%	200	0	6.1.0	100
C Settings												
	Close Panel Se	earch	Columns	•					Liı	nes: 9 Last upda	ite at 8:54:	▶ 24 PM
	Process Name		Status Up Time	i c	PU Physical	Memory Virtual M	emory SI	haredStore	SharedStore P	osition		
	phMonitorAgent		Up 29s	0	% 575 MB	1116 MB						^
	phParser		Up 17s	0	% 106 MB	1190 MB	9	9	0			
	phPerfMonitor		Up 17s	0	% 79 MB	766 MB						
	phEventForwarder		Up 17s	0	% 48 MB	547 MB						
	phDiscover		Up 17s	0	% 53 MB	513 MB						

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.

FortiSIEM	∞ ⊾ ▲ ॼ 중 꾇 ∺ ✿	0	▲	1	•	•
🌣 Setup	← All Settings > System > Cluster Config					
🖨 Device Support	Supervisors Event Upload Workers					
📰 Health	Address: + - Address:		+	-		
License	2017		+	-		
S Content Update	Save					
😂 Settings						

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

Organization Definiti	on (ORG)		:
Organization:	ORG	Include IP/IP Range:	
Full Name:		Exclude IP/IP Range:	
Admin User:	admin	Agent User:	
Admin Password:	•••••	Agent Password:	
Confirm Admin Password:	•••••	Confirm Agent Password:	
Admin Email:	Required	Max Devices:	
Phone:		Address:	
Account Number:		Account Type:	
Support Tier:		Account Status:	
Support Team:		Account Manager:	
Collectors:	New Edit Delete		
	Collector Name Collector EPS	UpLoad Rate Limit	Valid Start Date Valid End Date
	Save	Cancel	

- 4. Enter the Organization Name, Admin User, Admin Password, and Admin Email.
- 5. Under Collectors, click New.
- 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.



The Collector will reboot during the Registration.

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

Setup	Cloud Health	Collector Heal	lth										
Device Support	Show Processes	Tunnels	🌣 Action 👻	Search		Columns 🕶				Lines: 1	Last update at	8:54:17 PM	1
📑 Health	Organization	Name	IP A	ddress	Status	Health	Up Time	CPU	Memory	Allocated EPS	Incoming EPS	Version	
License	Super	CO-ORG	172.	.30.57.4	up	Normal	3m 4s	65%	5%	200	0	6.1.0	
Settings													
	۲												
	Close Panel S	Search	Co	lumns 🗸	_			_	_	Lir	nes: 9 Last upda	ite at 8:54:	2
	Close Panel S Process Name	Search	Co Status Up		CPU	Physical A	Aemory : Virtual M	emory	SharedStore ID	Lir		ite at 8:54:	2.
		Search		o Time	CPU	Physical A 575 MB	Aemory : Virtual M 1116 MB	emory i	SharedStore ID			ite at 8:54:	2.
	Process Name	Search	Status Up	o Time 9s				emory I	SharedStore ID 99			ite at 8:54:	2
	Process Name phMonitorAgent	Search	Status Up Up 29	o Time 95 75	0%	575 MB	1116 MB	emory I	ID	SharedStore P		ite at 8:54:2	2
	Process Name phMonitorAgent phParser		Up 29	o Time 95 75 75	0% 0%	575 MB 106 MB	1116 MB 1190 MB	emory I	ID	SharedStore P		ite at 8:54:	2

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.

	A INCIDENTS CMD8 🔛 RESOURCES 🗱 ADMIN	
🗢 Setup	FortiSIEM Instances	
📰 Health	New Edit Delete Unregister Q. (1/1)	Ø H < 1/1 1 > H
I License	ID Instance Name Instance FQDN Admin User Registered Description	
S Content Update	FortiSIEM Instance Definition (sp56148)	
🕫 Settings	FortiSIEM Instance Name: 1055148	
	Admin User: admin	
	Admin Password:	
	Confirm Admin Password:	
	Description:	
	Save Cancel	

 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.

FortiSIEM	🙆 DASHBOARD 🐚 ANALYTICS	🌲 INCIDENTS 🔤 CASES 🍔 CMDI	B 🖼 RESOURCES	5 🚝 TASKS 🗱 AI	DMIN		
🌣 Setup	Storage - Organizations Cre	edentials Discovery Pull Events Mo	nitor Performance	STM Maintenance	Windows Agent L	inux Agent	FortiSIEM Manager
🖨 Device Support	FortiSIEM Manager FQDN/IP:						
📑 Health	FortiSIEM Instance FQDN/IP:	com					
License	FortiSIEM Instance Name:	DRSetup					
S Content Update	Account:	admin					
✿ Settings							
	Confirm Password: Registered:						
	Registered.	10					
		Test Register Delete					

- 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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