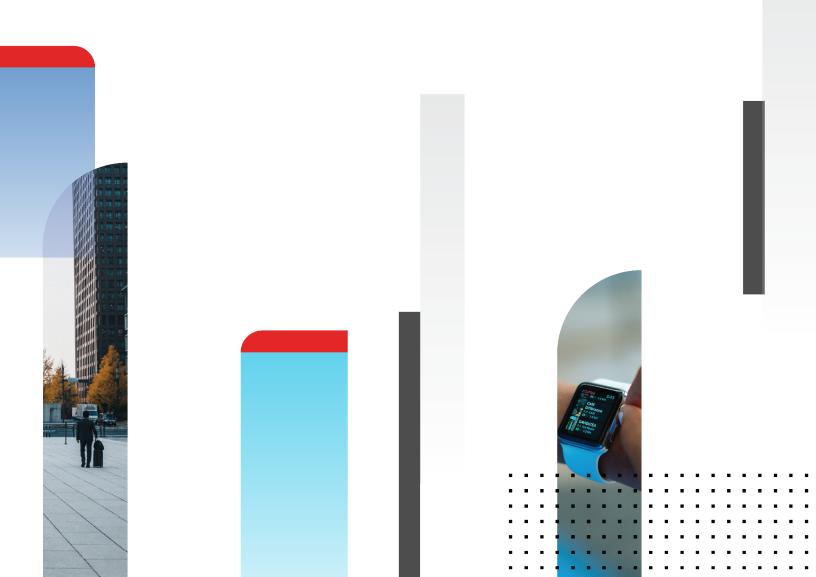
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2000F Hardware Configuration Guide

FortiSIEM 6.2.1



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11/14/2023 FortiSIEM 6.2.1 2000F Hardware Configuration Guide

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Change Log

Date	Description
03/30/2018	Initial release of this guide.
06/13/2019	Revision 1: Updated instructions for "Using FortiSIEM".
09/11/2019	Revision 2: Changed the location where you obtain images to https://support.fortinet.com.
08/15/2020	Revision 3: Added new sections for "Configuring FortiSIEM via a GUI", "Choose an Event Database", and "Cluster Installation".
10/09/2020	Revision 4: Added migration instructions.
11/11/2020	Revision 5: Release for 6.1.2.
12/08/2020	Revision 6: Small addition to Register Collectors.
03/23/2021	Revision 6: Release for 6.2.0.
04/20/2021	Revision 7: Updated Step 8: Choose an Event Database for 6.2.0.
05/06/2021	Revision 8: Release for 6.2.1.
05/19/2021	Revision 9: Updated Factory Reset section for 6.2.x.
06/07/2021	Updated Elasticsearch screenshot for 6.2.x guides.
07/09/2021	Updated step 5 in Step 2: Reinstall FortiSIEM application for 6.2.x guides.
11/18/2021	Revision 10: Updated Register Collectors instructions for 6.2.x guides.
10/20/2022	Updated Register Collectors instructions for 6.x guides.

Appliance Setup

Follow the steps below to setup FSM-2000F appliance.

- All-in-one Installation
- Cluster Installation

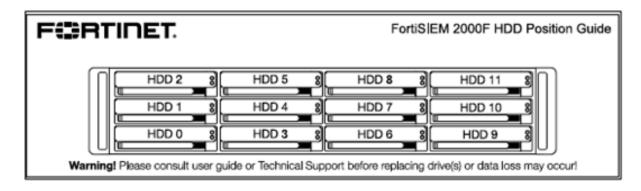
All-in-one Installation

Follow these steps to install all of the FortiSIEM components at one time.

- Step 1: Rack mount the FSM-2000F appliance
- Step 2: Power On the FSM-2000F appliance
- Step 3: Verify System Information
- Step 4: Configure FortiSIEM via GUI
- Step 5: Generate the FortiSIEM FSM-2000F License Key file
- Step 6: Register the FortiSIEM License
- Step 7: Accessing FortiSIEM UI
- Step 8: Choose an Event Database

Step 1: Rack mount the FSM-2000F appliance

- 1. Follow FortiSIEM 2000F QuickStart Guide here to mount FSM-2000F into the rack.
- 2. Insert Hard Disks positions as shown below:



3. Connect FSM-2000F to the network by connecting an Ethernet cable to Port0.



Before proceeding to the next step, connecting Ethernet cable to Port0 is required for Network configuration.

Step 2: Power On the FSM-2000F appliance

- 1. Make sure the FSM-2000F device is connected to a Power outlet and an Ethernet cable is connected to Port0.
- 2. Power On the FSM-2000F device.



FSM-2000F appliance does not have a default IP address. To connect to the GUI, an IP address must be configured using the GUI (Step 4).

Step 3: Verify System Information

- 1. Connect to the FSM-2000F appliance using VGA port or Console port.
- 2. Login as 'root' user with password ProspectHills. You will be required to change the password. Remember this password for future use. Once you change the password, you will be logged out. Login again with your new password.
- 3. Run get to check the available FortiSIEM commands.
- 4. Use these commands to check the hardware information. After running each command, ensure that there are no errors in the displayed output.

Command	Description
get system status	Displays system name, version and serial number.
diagnose hardware info	Displays system hardware information like CPUs, Memory and RAID information.
diagnose interface detail port0	Displays interface status.

Step 4: Configure FortiSIEM via GUI

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

- 1. Log in as user root with the password you set in Step 3 above.
- 2. At the command prompt, go to /usr/local/bin and enter configFSM.sh, for example:
 # configFSM.sh
- 3. In the console, select 1 Set Timezone and then press Next.



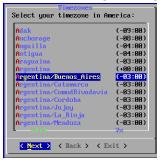
4. Select your Region, and press Next.



5. Select your Country, and press Next.



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



7. Select 1 Supervisor. Press Next.





Regardless of whether you select **Supervisor** or **Worker**, you will see the same series of screens.

8. If you want to enable FIPS, then choose 2. Otherwise, choose 1. You have the option of enabling FIPS (option 3) or disabling FIPS (option 4) later.

Select Operation	onfigure Supervisor
45	<pre>install_without_fips install_with_fips enable_fips disable_fips change_ip migrate_6_1_1 upgrade</pre>
< Next >	< BACK > < Exit >

9. Configure the network by entering the following fields. Note the IP Address--you will need it in a later step. Press Next.

Option	Description
Host Name	The Supervisor's host name
IPv4 Address	The Supervisor's IPv4 address
NetMask	The Supervisor's subnet
Gateway	Network gateway address
FQDN	Fully-qualified domain name
DNS1, DNS2	Addresses of the DNS servers
	Configure Supervisor

Host name: IPv4 Address: Netmask:	sp5782.fortinet.com 172.30.57.82 255.255.252.0	
Gateway: FQDN: DNS1: DNS2:	172.30.56.1 sp5782.fortinet.com 172.30.52.31 172.30.52.32	

10. 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. 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. Press Next.

Confi Enter host for checkin	i <mark>gure Supervis</mark> ng network con		
myhost.com_			
< Next >	< Back >	< Exit >	

11. 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**.

Configure Supervisor
Run Configuration Command:
python /usr/local/bin/configureFSM.py -r super -z US/Pacific -i 172.30.57.82 -m 255.255.252.0 -g 172.30.56.1host sp5782.fortinet.com -f sp5782.fortinet.com -t 4dns1 172.30.52.32dns2 172.30.52.31 -o install_with_fipstestpinghost myhost.com
<pre>< Run > < Back > < Exit ></pre>

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) Note: the 6 value is not currently supported.
dns1,dns2	Addresses of the DNS servers
-0	Installation option (install_without_fips , install_with_fips, enable_fips, disable_fips, change_ip, or migrate)
-Z	Time zone. Possible values are US/Pacific , Asia/Shanghai, Europe/London , or

Option	Description
	Africa/Tunis
testpinghost	The host used to test connectivity

12. It will take some time to complete the FortiSIEM installation. If the installation is successful, then the appliance will reboot automatically. Otherwise, the appliance 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

The response should be similar to the following:

phParser	DOWN			
phQueryMaster	DOWN			
phRuleMaster	DOWN			
phRuleWorker	DOWN			
phQueryWorker	DOWN			
phDataManager	DOWN			
phDiscover	DOWN			
phReportWorker	DOWN			
phReportMaster	DOWN			
phIpIdentityWorker	DOWN			
phIpIdentityMaster	DOWN			
phAgentManager	DOWN			
phCheckpoint	DOWN			
phPerfMonitor	DOWN			
phDataPurger	DOWN			
phEventForwarder	DOWN			
phMonitor	32:18	0	1263m	568m
Apache	32:49	0	314m	17m
Rsyslogd	32:42	0	192m	4216k
Node.js-charting	32:36	0	642m	79m
Node.js-pm2	32:19	0	636m	52m
Node.js-exporter	32:31	0	10902m	59m
Node.js-jsreport	32:36	0	957m	117m
phFortiInsightAI	DOWN			
phAnomalyWorker	DOWN			
AppSvr	32:17		31781m	4433m
DBSvr	32:49	0	425m	37m
phAnomalyMaster	DOWN			
SVNLite	32:49	0	37923m	579m
Redis	32:21	0	204m	82m

Step 5: Generate FortiSIEM FSM-2000F License Key file from FortiCare

- 1. Obtain the Hardware Serial Number from FSM-2000F appliance from FortiCare Support Services.
- 2. Follow FortiSIEM Licensing Guide here to generate the license key file remember to use 'Hardware Serial Number' for Hardware ID.

Step 6: Register FortiSIEM License

- 1. Note the IP Address assigned to FortiSIEM in Step 4.
- 2. Access FortiSIEM from browser (https://<FortiSIEM-IP>).
- 3. Upload the license file obtained from Step 5 and select the License Type based on your deployment (note this choice can only be made once and is not reversible):
 - Enterprise for single organizations
 - · Service Provider for multiple organizations
- 4. Click Upload to complete the license registration.

Step 7: Accessing FortiSIEM UI

- 1. Note the IP Address assigned to FortiSIEM in Step 5.
- 2. Access FortiSIEM from browser (https://<FortiSIEM-IP>).
- 3. Login to FortiSIEM using the default user name, password, and organization:
 - UserID: admin
 - Password: admin*1
 - Cust/OrgID: super (if shown)

Step 8: Choose an Event Database

For a fresh installation, you will be taken to the Event Database Storage page.

Option	Description
Local HW Appliance Storage	Enter the "hardware" without the quotes, to use the inbuilt storage and FortiSIEM event database.
NFS	For more details, see Configuring Storage. Using NFS will not utilize the hardware appliance storage.
Elasticsearch	For more details, see Configuring Storage. Using Elasticsearch will not utilize the hardware appliance storage.

Cluster Installation

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

- · Installing the Supervisor
- Installing Workers
- Registering Workers
- Installing Collectors
- Registering Collectors

Installing the Supervisor

Follow the steps in All-in-one Installation with two differences:

- Setting up hardware you do not need an event database.
- Setting up an Event database Configure the cluster for either NFS or Elasticsearch.
- NFS Event Database storage: • Local Disk • NFS Server IP/Host Exported Directory: • Elasticsearch

Elasticsearch

	☆ FortiSIEM
Event Database storage: Local Disk NFS O Elasticsearch	
ES Service Type:	• Native • Amazon • Elastic Cloud
URL:	https://
REST Port:	443 🔅
User Name:	(Optional)
Password:	(Optional)
Confirm Password:	
Shard Allocation:	• Fixed • Dynamic
Shards:	5
Replicas:	1
Per Org Index	
	Test

You must choose external storage listed in Step 8: Choose an Event Database.

Installing Workers

Once the Supervisor is installed, follow the same steps in All-in-one Installation to install a Worker except that you choose **2 Worker** during Step 4: Configure FortiSIEM via GUI substep 7.

Registering 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 drop-down list and enter the Worker's IP address. Click Add.

🏟 Setup	General Usage Nodes	
🖨 Device Support	Add Delete	
📑 Health	Mode	IP Address
	Supervisor	172.30.57.2
License	Add Node	×
	Type: Worker	~
	Worker IP Address: 172.30.57.3	
	OK Cancel	

3. See ADMIN > Health > Cloud Health to ensure that the Workers are up, healthy, and properly added to the system.

Setup	Cloud Health Collec	tor Health							
🖨 Device Support	Search	Columns 🕶					l	Lines: 2 Last update at 8:4	9:17 PM 🞜
📑 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	0.95,0.47,0.4	3 4%	0 КВ	
I License	wk573.fortinet.com	172.30.57.3	Worker	Normal 6.	1.0.1238	0.1,0.2,0.16	2%	0 КВ	
Settings									
	Search	Columns 🔻		Process	level metrics for wk5	73.fortinet.com (17	(2.30.57.3)		Lines: 17
	Search	Columns -			level metrics for wk5		,		Lines: 17
	Search Process Name		Up Time	Process	level metrics for wk5		2.30.57.3) SharedStore ID	SharedStore Position	Lines: 17
			Up Time 1h 3m				,	SharedStore Position	Lines: 17
	Process Name	Status		CPU	Physical Memory	Virtual Memory	,	SharedStore Position	Lines: 17
	Process Name Node.js-charting	Status Up	1h 3m	: CPU 0%	Physical Memory 70 MB	Virtual Memory 916 MB	,	SharedStore Position	Lines: 17
	Process Name Node.js-charting httpd	Up Up	1h 3m 14m 6s	i CPU 0% 0%	Physical Memory 70 MB 16 MB	916 MB 310 MB	,	SharedStore Position	Lines: 17
	Process Name Node. js-charting httpd Redis	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	Lines: 17
Copyright ⊕ 2020 Fortinet, Inc. All rights reser	Process Name Node.js-charting httpd Redis Node.js-pm2 rsyslogd phDataManager	Status Up Up Up Up	1h 3m 14m 6s 14m 6s 1h 3m	CPU 0% 0% 0%	Physical Memory 70 MB 16 MB 22 MB 44 MB	Virtual Memory 916 MB 310 MB 51 MB 899 MB	,	SharedStore Position	Lines: 17

Installing Collectors

Once Supervisor and Workers are installed, follow the same steps in All-in-one Install to install a Collector except only choose OS and OPT disks. 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.

Registering 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 > 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.
- 3. Go to ADMIN > Setup > Collector 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:

/opt/phoenix/bin/phProvisionCollector --add <user> <password> <Super IP or Host>
<Organization> <CollectorName>

- 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 Collect	or Health									
🖨 Device Support	Show Processes Tur	inels 🏟 Action	- Search	Co	lumns 👻			Lines: 1	Last update at 8:54	4:17 PM	Ø
🚍 Health	Organization Na	me i	IP Address	Status	Health Up	Time CPI	J Memory	Allocated EPS	Incoming EPS	/ersion	Col
Icense License	Super CO	-ORG	172.30.57.4	up	Normal 3m	4s 655	6 5%	200	0	6.1.0	100
✿\$ Settings											
	Close Panel Search.		Columns 🕶					Lin	es: 9 Last update a	at 8:54:24	► PM
	Process Name	Status	Up Time	CPU	Physical Memor	y Virtual Memory	SharedStore ID	SharedStore Po	sition		
	phMonitorAgent	Up	29s	0%	575 MB	1116 MB					^
	phParser	Up	17s	0%	106 MB	1190 MB	99	0			
	phPerfMonitor	Up	17s	0%	79 MB	766 MB					
	phEventForwarder	Up	17s	0%	48 MB	547 MB					
	phDiscover	Up	1 7 s	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**.

Setup	← All Settings > System > Event Worker										
🖨 Device Support	Worker Address:	172.30.57.3	+ -								
Health											
License		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.

Appliance Setup

Organization Definition (ORG) - Add Collector											
Name:	Required										
Guaranteed EPS:	Required										
Upload Rate Limit (Kbps):	Unlimited										
Start Time:	Unlimited										
End Time:	Unlimited										
	< Save < Cancel										

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

/opt/phoenix/bin/phProvisionCollector --add <user> <password> <Super IP or Host> <Organization> <CollectorName>

- **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.

Eroot@co574 ~1# phProvisionCollector	
Usage: phProvisionCollectoradd (Organization-user-name) (Organization-user-password) (Supervisor-IP) (Organization-name) (Collect	br-name>
<pre>Iroot@co574 "]# phProvisionCollectoradd admin Admin*11 172.30.57.2 ORG CO-ORG</pre>	
Continuing to provision the Collector	
This collector is registered successfully. Normal Exit and restart of phMonitor after collector license registration.	
Iroot@co574 ~1# _	

The Collector will reboot during the Registration.

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

🌣 Setup	Cloud Health Collector Health															
🖨 Device Support	Show Processes Tunnels Action			tion • Search Columns •			•						Lines: 1 Last update at 8:54:17 PM			
🗮 Health	Organization	Name	i IP	Address	Status	He	alth	Up Time	i c	PU	Memory	Allocated EPS	Incoming EPS	Version	Col	
📧 License	Super	CO-ORG	17	2.30.57.4	up	No	rmal	3m 4s	6	5%	5%	200	0	6.1.0	100	
😂 Settings																
	4														Þ	
	Close Panel Se	arch		Columns 👻								Lin	es: 9 Last updat	e at 8:54:2	4 PM	
	Process Name		Status	Up Time	; C	PU I	Physical Mem	nory Virt	tual Memory	Shar ID	edStore	SharedStore P	osition			
	phMonitorAgent		Up	29s	(9%	575 MB	111	16 MB						-	
	phParser		Up	17s	(1%	106 MB	119	PO MB	99		0				
	phPerfMonitor		Up	17s	(0%	79 MB	766	MB							
	phEventForwarder		Up	17s	(9%	48 MB	547	MB							
	phDiscover		Up	17s	(1%	53 MB	513	MB							
				-		-									*	

Factory Reset

Follow the steps below to perform factory reset on FortiSIEM FSM-2000F.

- Step 1: Uninstall FortiSIEM application
- Step 2: Reinstall FortiSIEM application

Step 1: Uninstall FortiSIEM application

- 1. Connect FortiSIEM device using VGA or Console port.
- 2. Login as root user with the new password you set in Step 3: Verify System Information.
- 3. To check the available FortiSIEM commands, run sudo get.
- 4. To uninstall FortiSIEM, run sudo execute fsm-clean. This script will uninstall FortiSIEM application.
- 5. Reboot the system.

Step 2: Reinstall FortiSIEM application

- 1. Login as root with password ProspectHills. You will immediately be asked to change your password.
- 2. To configure RAID, run execute format disk.
- 3. To check Hardware status and RAID information, run diagnose hardware info.
- 4. To install FortiSIEM, run execute factoryreset --force. The command fails after partial steps. Run the same command again to complete factory reset. This script takes a few minutes to complete FortiSIEM installation.
- 5. Reboot and run /user/local/bin/configFSM.sh to install FortiSIEM.

Follow the steps under Appliance Setup to configure FSM-2000F.



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