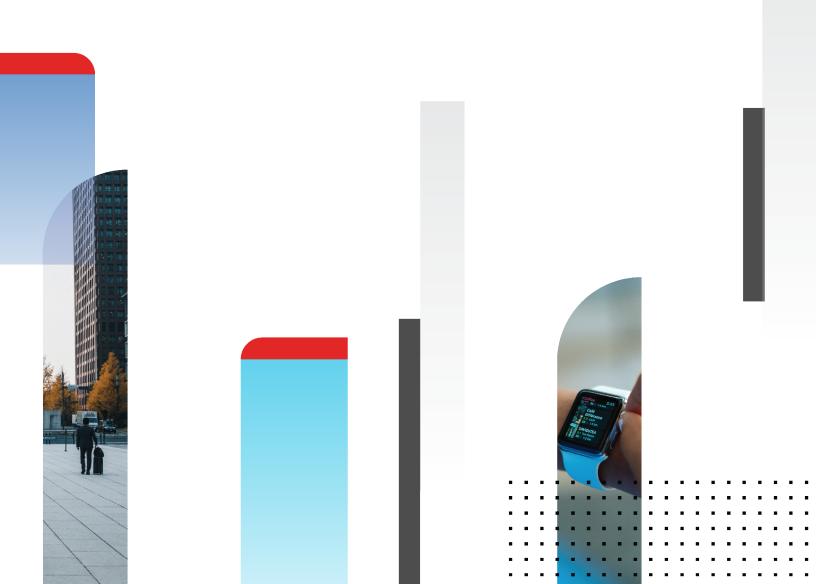
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Deployment Guide

FortiAnalyzer Federation 7.0.0



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April 22, 2021 FortiAnalyzer Federation 7.0.0 Deployment Guide 05-700-711439-20210422

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Change Log

Date	Change Description
2021-06-22	Initial release.

Introduction

The FortiAnalyzer Federation enables centralized viewing of devices, incidents, and events across multiple FortiAnalyzers acting as members. In this mode, FortiAnalyzer Federation members form a Fabric with one device operating in supervisor mode as the root device. Incident and event information is synced from members to the supervisor using the API.

The FortiAnalyzer Federation device operating as the supervisor includes the following modules:

System Settings ~							& A 1 👤	admin 🗸	
		•	(S ×	License Information			S ×	
 Sti Device Manager Sti Device Manager Ne Admin × Administrators Profile Remote Authentication Server Admin Settings SAML SSO Certificates × Local Certificates CA Certificates 	FortiSoC Platform Typ HA Status System Time Firmware Vec System Conf Current Adm Up Time Administrativ Operation M	Standalon Thu Apr O sion v7.0.0-bu guration Last Back inistrators admin /1 41 minute e Domain Off	e 1 12:46:32 2021 PDT Id0029 210401 (Interim) Jp : N/A In total s 18 seconds	× 8 11 11	H License FortiCloud FortiGuard FortiGuard Security Operations Logging Storage Connector Service Update Server	Type Registered Indicators of Compr SOC Service Devices/VDOMs GB/Day ① VM Storage Cloud AntiVirus and IPS	Valid 10K-UG Licensed (Expires 2022-02-27) Servers located in US only 2 of 10,000 (0.07 0.0 of Unlimited 50.00 GB of Unli No License 96.45.33.88 (m Sunnyvale, California, I	mi T	
Device Manage	Device Manager Displays FortiAnalyzer Federation members with their ADOMs and authorized logging devices.								
FortiSoC			Displays the <i>Event Monitor</i> and <i>Incidents</i> panes. Administrators can view incidents and events created on member FortiAnalyzer Federation.						
System SettingsConfigure the settings for the FortiAnalyzer supervisor.See the FortiAnalyzer Administration Guide.						or.			
Management E	Extensior	i s Ena	ables suppo	orted manageme	ent extensio	n applicatio	ons.		

For information on the modules available as a FortiAnalyzer Federation member, see the FortiAnalyzer Federation Administration Guide.

See the FortiAnalyzer Administration Guide.

FortiAnalyzer Federation roles

FortiAnalyzer Federation includes two operation modes, including supervisor and member.

- Supervisors acts as the root device in the FortiAnalyzer Federation. SOC administrators can use the supervisor to view member devices and their ADOMs and authorized logging devices, as well as incidents and events created on members.
- Members are devices in the FortiAnalyzer Federation that send information to the supervisor for centralized viewing. When configured as a member, FortiAnalyzer devices continue to have access to the

FortiAnalyzer features identified in the FortiAnalyzer Administration Guide. Incidents and events are created or raised from each member.

Deployment

This section includes the following topics:

- Configuring the FortiAnalyzer Federation on page 7
- Deployment architecture on page 9

Configuring the FortiAnalyzer Federation

To configure a FortiAnalyzer Federation, you must configure a supervisor, one or more members, and enable soc-fabric communication on the interfaces being used.

- Configuring a supervisor on page 7
- Configuring a member on page 8



All FortiAnalyzer Federation members must be configured with the same timezone settings as the supervisor.

Configuring a supervisor

To configure a supervisor:

1. In the FortiAnalyzer Federation supervisor CLI, enter the following commands to enable soc-fabric communication:

```
config system interface
  edit <interface used for soc-fabric communication>
    set allowaccess soc-fabric (enable other types of interface access as
        needed, for example https)
```

2. Enter the following commands to configure the supervisor:

```
config system soc-fabric
  set status enable
  set role supervisor
  set name <create the FortiAnalyzer Federation name>
  set psk <create the FortiAnalyzer Federation password>
  set port 6443 <set the communication port if not using the default one>
  set secure-connection {enable | disable}
  next
end
```

Configuring a member

FortiAnalyzer Federation allows multiple FortiAnalyzers to act as fabric members. Each FortiAnalyzer in Analyzer mode must be individually configured as a member to participate in the FortiAnalyzer Federation.

To configure a member:

1. In the FortiAnalyzer Federation member CLI, enter the following commands to enable soc-fabric communication:

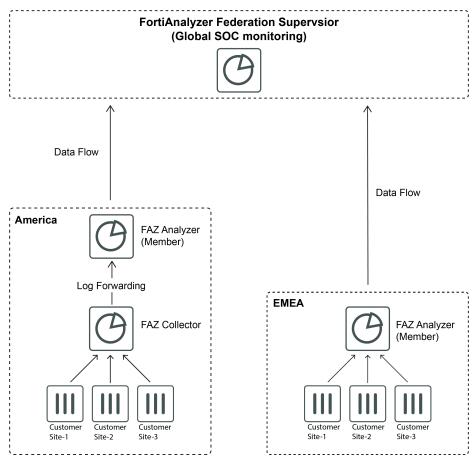
```
config system interface
  edit <interface used for soc-fabric communication>
    set allowaccess soc-fabric (enable other types of interface access as
        needed, for example https)
```

2. Enter the following commands to configure the member:

```
config system soc-fabric
  set status enable
  set role member
  set name <enter the FortiAnalyzer Federation Name>
  set psk <enter the FortiAnalyzer Federation auth password>
  set supervisor <enter the IP/FNDN of the supervisor>
  set port 6443 <set the communication port if not using the default one>
  set secure-connection {enable | disable}
  next
end
```

Deployment architecture

The following is an example of the topology that can make up the FortiAnalyzer Federation, with the supervisor acting as the root device, and multiple FortiAnalyzer Federation members sending information to the supervisor through the API. Information can be sent from a FortiAnalyzer operating as a Collector to an Analyzer before being synced to the supervisor. The FortiAnalyzer Federation is ideal for use in high volume environments with many FortiAnalyzers.



Using the FortiAnalyzer Federation supervisor

The FortiAnalyzer Federation supervisor includes the following features:

- Device Manager on page 10
- Event Monitor on page 11
- Incidents on page 12

Device Manager

In the FortiAnalyzer Federation supervisor, the *Device Manager* is used to collect and display information from members. You can expand each member to view its ADOMs and authorized logging devices. The *Device Manager* displays information about device storage, logging rates, and the current real time log status of devices.

Device filtering can be performed by searching for device information using the search field. For example, you can search "FortiGate" to view all FortiGate devices, or "100D" to view only FortiGate 100D models.

	Device Manager 🗸					Quick Access 🗸	ADOM: root	B (J) ad
						a,	C		
	Name	Serial Number	Platform	Firmware Version	Max Storage	Analytics U	Jsage (Used/Ma	к)	
	FAZVM64-Shawn-130-change	FAZVMSTM21000390	FortiAnalyzer-VM64	v7.0.0-build4263 210404 (Interim)	491.15GB	-			
•	fabric-shawn-130-1				75.0 GB	708.8 MB/	52.5 GB 🦳	1%	
	Device Name	IP Address	Platform	Logs	Average Log Rate(Log	;s/Sec)	Device Storag	e	
	▼ ■ FG100D3G0000099	10.2.125.31	FortiGate-100D	Real Time	N/A			1.06%	
	of root		vdom	Real Time	N/A			0%	
	🗅 test		vdom	Real Time	N/A		(1.06%	
•	fabric-shawn-130-2				60.0 GB	709.5 MB/	42.0 GB 🤇	2%	
	Device Name	IP Address	Platform	Logs	Average Log Rate(Log	;s/Sec)	Device Storag	e	
	▼ ■ FG100D3G10000099	10.2.125.31	FortiGate-100D	Real Time	N/A			1.34%	
	o root		vdom	Real Time	N/A			0%	
	🗅 test		vdom	Real Time	N/A		\square	1.34%	
	FAZVM64-Shawn-244 (102)	FAZ-VMTM20009250	FortiAnalyzer-VM64	v7.0.0-build4263 210404 (Interim)	79.41GB	-			
	FAZVM-S-903	FAZVMSTM20000056	FortiAnalyzer-VM64	v7.0.0-build4263 210404 (Interim)	78.24GB				
•	root				10.0 GB	6.1 GB/7.0	GB 🛛 8	7%	
	Device Name	IP Address	Platform	Logs	Average Log Rate(Log	;s/Sec)	Device Storag	e	
	w FWF61E-V64	10.2.60.44	FortiWiFi-61E	Real Time	N/A			10.37%	
	🗅 root		vdom	Real Time	N/A			10.37%	
	▼	10.2.60.44	FortiGate-600C	Real Time	N/A			9.3%	
	o root		vdom	Real Time	N/A		\square	0.32%	
	🔷 vd1		vdom	Real Time	N/A			8.97%	
	🗢 lab		vdom	Real Time	N/A			0.01%	

Device Manager includes the following information for each FortiAnalyzer Federation member:

Name	The name of the FortiAnalyzer Federation member.
Serial Number	The device's serial number.
Platform	The device's platform.
Firmware Version	The device's firmware version.
Max Storage	The total maximum storage.

Analytics Usage (Used/Max)	The analytics for log storage usage, displaying the total amount used
	against the maximum available.

FortiAnalyzer Federation member ADOMs are displayed below each member. Each ADOM includes their authorized logging devices. The following information is displayed for each device and VDOM:

Device Name	The name of the device.
IP Address	The IP address of the device.
Platform	The platform of the device.
Logs	The real time log status. A green circle indicates that logs are being sent. A red circle indicates that logs are not being sent. The status indicator will turn from green to red when logs have not been sent for 15 minute or longer.
Average Log Rate (Logs/Sec)	The average log rate per second. This information is only available when the device is sending logs in real time.
Device Storage	The amount of storage used by the device or VDOM.

Event Monitor

On the FortiAnalyzer Federation supervisor, the event monitor includes *All Events* and *Supervisor Local Events panes*.

- All Events on page 11
- Supervisor Local Events on page 12

All Events

The All Events pane displays events created on each FortiAnalyzer Federation member.

Event handlers must be configured on members for events to be viewable on the supervisor.

On the supervisor, events are organized into pages. You can configure the number of events that are displayed per page and navigate between the pages by using the page navigation buttons at the bottom of the pane.

Apply filters by clicking *Add Filter* or by right-clicking within a column in the events table and selecting your search parameters.

Add Filter Croup Event Status FAZ Name Group Event Status FAZ Name 10.2.175.43 FAZVM-S-903 10.2.175.43 FAZVM-S-903 10.2.126.95 FAZVM-S-903 10.2.115.2 FAZVM-S-903 10.2.60.111 open FAZVM-S-903 10.2.60.46 FAZVM-S-903 0.2.60.46 FAZVM-S-903 10.2.60.93 open FAZVM-S-903 0.2.60.45 FAZVM-S-903 10.2.60.93 FAZVM-S-903 10.2.60.94 FAZVM-S-903 10.2.40.74.5 FAZVM-S-903 10.2.2050 FAZVM-S-903 10.2.0.250 FAZVM-S-903 10.2.123.9 FAZVM-S-903 10.2.175.118 FAZVM-S-903 10.2.175.116 FAZVM-S-903 FAZVM-S-	Event Type Traffic Traffic Traffic IPS Traffic Traffic	Severity Medium Medium Medium High	count 120 104 103	First Occurrence 2021-04-07 10:45:18 2021-04-07 10:45:00 2021-04-07 10:45:38	Last Update 2021-04-08 10:46:58 2021-04-08 10:46:48	Device Na FAZVMST	Acknowle
Group Event Status FAZ Name Group Event Status FAZ VM-5-903 10.2.175.43	Traffic Traffic Traffic IPS	 Medium Medium Medium 	120 104	2021-04-07 10:45:18 2021-04-07 10:45:00	2021-04-08 10:46:58		Acknowle
FAZVM-S-903 10.2.175.43 FAZVM-S-903 10.2.126.95 FAZVM-S-903 10.2.115.2 FAZVM-S-903 10.2.60.111 open FAZVM-S-903 10.2.60.111 open FAZVM-S-903 10.2.60.46 open FAZVM-S-903 10.2.60.47 open FAZVM-S-903 10.2.60.49 open FAZVM-S-903 10.2.60.45 open FAZVM-S-903 10.2.60.45 open FAZVM-S-903 10.2.60.94 open FAZVM-S-903 10.2.175.45 open FAZVM-S-903 10.2.12.29 open FAZVM-S-903 10.2.175.118 open FAZVM-S-903 10.2.175.116 open	Traffic Traffic Traffic IPS	 Medium Medium Medium 	120 104	2021-04-07 10:45:18 2021-04-07 10:45:00	2021-04-08 10:46:58		
FAZVM-S-903 10.2.126.95 FAZVM-S-903 10.2.115.2 FAZVM-S-903 10.2.60.111 open FAZVM-S-903 10.2.60.42 open FAZVM-S-903 10.2.60.42 open FAZVM-S-903 10.2.60.93 open FAZVM-S-903 10.2.60.45 open FAZVM-S-903 10.2.60.45 open FAZVM-S-903 10.2.60.94 open FAZVM-S-903 10.2.60.94 open FAZVM-S-903 10.2.175.45 open FAZVM-S-903 10.2.123.9 open FAZVM-S-903 10.2.175.118 fazVM-S-903	 Traffic Traffic IPS 	 Medium Medium 	104	2021-04-07 10:45:00		FAZVMST	No
X2VM-S-903 10.2.115.2 X2VM-S-903 10.2.60.111 open X2VM-S-903 10.2.60.46 open X2VM-S-903 10.2.60.47 open X2VM-S-903 10.2.60.93 open X2VM-S-903 10.2.60.93 open X2VM-S-903 10.2.60.45 open X2VM-S-903 10.2.60.94 open X2VM-S-903 10.2.60.94 open X2VM-S-903 10.2.175.45 open X2VM-S-903 10.2.123.9 open X2VM-S-903 10.2.175.118 open X2VM-S-903 10.2.175.116 open	 Traffic IPS 	Medium			2021-04-08 10:46:48		
AZVM-5-903 10.2.60.111 open FAZVM-5-903 10.2.60.46 open FAZVM-5-903 10.2.60.93 open FAZVM-5-903 10.2.60.93 open FAZVM-5-903 10.2.60.45 open FAZVM-5-903 10.2.60.45 open FAZVM-5-903 10.2.60.94 open FAZVM-5-903 10.2.175.45 open FAZVM-5-903 10.2.0.250 open FAZVM-5-903 10.2.175.118 open FAZVM-5-903 10.2.175.116 open	• IPS		103	2021 04 07 10:45:29		FAZVMST	No
AZVM-S-903 10.2.60.46 FAZVM-S-903 VAN-200289-US1 open FAZVM-S-903 10.2.60.93 FAZVM-S-903 10.2.60.93 FAZVM-S-903 10.2.60.121 FAZVM-S-903 10.2.60.94 FAZVM-S-903 10.2.0.50 FAZVM-S-903 10.2.0.250 FAZVM-S-903 10.2.123.9 FAZVM-S-903 10.2.175.118 FAZVM-S-903 10.2.175.116	-	😑 High		2021-04-07 10:45:38	2021-04-08 10:46:48	FAZVMST	No
AZVM-5-903 VAN-200289-US1 open FAZVM-5-903 10.2.60.93	🛱 Traffic		451	2021-04-07 10:45:27	2021-04-08 10:46:47	FAZVMST	No
FAZVM-S-903 10.2.60.93 FAZVM-S-903 10.2.60.45 FAZVM-S-903 10.2.60.121 FAZVM-S-903 10.2.60.94 FAZVM-S-903 10.2.15.45 FAZVM-S-903 10.2.0.250 FAZVM-S-903 10.2.12.2.9 FAZVM-S-903 10.2.175.118 FAZVM-S-903 10.2.175.116		Medium	104	2021-04-07 10:45:01	2021-04-08 10:46:46	FAZVMST	No
FAZVM-S-903 10.2.60.45 FAZVM-S-903 10.2.60.121 FAZVM-S-903 10.2.00.94 FAZVM-S-903 10.2.175.45 FAZVM-S-903 10.2.0.250 FAZVM-S-903 10.2.123.9 FAZVM-S-903 10.2.175.118 FAZVM-S-903 10.2.175.116	Traffic	😑 High	124	2021-04-07 10:45:02	2021-04-08 10:46:39	FAZVMST	No
X2VM-S-903 10.2.60.121 X2VM-S-903 10.2.60.94 X2VM-S-903 10.2.175.45 X2VM-S-903 10.2.0250 X2VM-S-903 10.2.123.9 X2VM-S-903 10.2.175.118 X2VM-S-903 10.2.175.116	🖨 Traffic	Medium	104	2021-04-07 10:45:00	2021-04-08 10:46:39	FAZVMST	No
FAZVM-S-903 10.2.60.94 FAZVM-S-903 10.2.175.45 FAZVM-S-903 10.2.0250 FAZVM-S-903 10.2.123.9 FAZVM-S-903 10.2.175.118 FAZVM-S-903 10.2.175.116	🖨 Traffic	Medium	86	2021-04-07 14:49:27	2021-04-08 10:46:35	FAZVMST	No
X2VM-S-903 10.2.175.45 X2VM-S-903 10.2.0250 X2VM-S-903 10.2.123.9 X2VM-S-903 10.2.175.118 X2VM-S-903 10.2.175.116	🖨 Traffic	Medium	104	2021-04-07 10:45:04	2021-04-08 10:46:33	FAZVMST	No
FAZVM-5-903 10.2.0.250 FAZVM-5-903 10.2.123.9 FAZVM-5-903 10.2.175.118 FAZVM-5-903 10.2.175.116	🖨 Traffic	Medium	103	2021-04-07 10:45:02	2021-04-08 10:46:31	FAZVMST	No
x2VM-5-903 10.2.123.9 x2VM-5-903 10.2.175.118 x2VM-5-903 10.2.175.116	🛱 Traffic	Medium	86	2021-04-07 14:49:24	2021-04-08 10:46:28	FAZVMST	No
FAZVM-S-903 10.2.175.118 FAZVM-S-903 10.2.175.116	🛱 Traffic	Medium	176	2021-04-07 14:11:41	2021-04-08 10:46:28	FAZVMST	No
AZVM-S-903 10.2.175.116	🖨 Traffic	Medium	104	2021-04-07 10:45:02	2021-04-08 10:46:28	FAZVMST	No
	🛱 Traffic	Medium	104	2021-04-07 10:45:04	2021-04-08 10:46:26	FAZVMST	No
	🛱 Traffic	Medium	105	2021-04-07 10:45:00	2021-04-08 10:46:25	FAZVMST	No
AZVM-S-903 10.2.60.141 open	🛱 Traffic	😑 High	283	2021-04-07 10:45:35	2021-04-08 10:46:24	FAZVMST	No
AZVM-S-903 10.2.175.46	🛱 Traffic	Medium	104	2021-04-07 10:45:09	2021-04-08 10:46:23	FAZVMST	No
AZVM-S-903 10.2.60.101	Traffic	Medium	104	2021-04-07 10:45:02	2021-04-08 10:46:16	FAZVMST	No

Double-click an event line to view the event group details. Event group details displays events from members in the FortiAnalyzer Federation. The member name and ADOM is displayed in the table.

To view log details, select an event in the event group and click *View Log*. You can drilldown further on each result to view event details.

Click Search in Log View to perform a log view search using the selected event.

Supervisor Local Events

Supervisor Local Events shows local events from the FortiAnalyzer acting as supervisor in the FortiAnalyzer Federation. Local events include events such as license validation, system time changes, reboots, and other events that have occurred on the supervisor in the FortiAnalyzer Federation.

≡									Quicl	k Access 🗸 🛛 🗚 🗛 🗸	l: root 🔌 👤 admin 🗸
©	🛇 Last 7 Days 🗸 🖍 Expand All 🗖 Show Acknowledged 🌮 🕄 🛃										
Add	Filter										Q
	#	Event	Event Statu	Event Type	Count	Severity	First Occurrence	▼ Last Update	Additional Info	Handler	Tags
	1	> FortiAnalyzer license limit		🗎 Event	10	Medium	7 days ago	2 hours ago	License validation state chan	Local Device Event	System Local
	2	> Image upgrade status (10)		🗎 Event	10	Medium	7 days ago	2 hours ago		Local Device Event	System Local
	3	> User login/logout failed (5)		🗎 Event	6	Medium	2 days ago	4 hours ago		Local Device Event	System Local
	4	> System time modified (1)		🗎 Event	2	Medium	15 hours ago	15 hours ago	system time changed: Thu Ap	Local Device Event	System Local
	5	> User login from SSH failed		📋 Event	2	Medium	2 days ago	2 days ago	Login from ssh: Failed for inv	Local Device Event	System Local

Incidents

On the supervisor, Incidents displays all incidents created on FortiAnalyzer Federation members.

Incidents contain event details, as well as information helpful for administrator analysis. From the incident's analysis page, administrators can view incidents, audit history, and attached reports, events, and comments.



Incident information syncs from members to the supervisor. New incidents can only be raised on FortiAnalyzer Federation members.

FortiSoC 🗸 🗧									Quick Acce	ss 🗸 ADOM: root	🖉 <u> (</u> admin
🛾 Event Monitor 🖌	🔟 Analys	sis 🐔 Setting	s								(
All Events	#	FAZ Name	Adom Name	Incident Number	▼ Incident Date / Time	Incident Reporter	Incident Category	Severity	Status	Affected Endpoint	Description
Supervisor Local Events	1	FAZVM r	oot	IN00000118	2021-04-07 11:07:18	Create Incident from	Malicious Code	High	New	10.2.60.111	Potential com.
Incidents	2	FAZVM r	oot	IN00000117	2021-04-07 11:07:18	Create Incident from	Malicious Code	High	New	10.2.60.111	Potential com
	3	FAZVM r	oot	IN00000119	2021-04-07 11:07:18	Create Incident from	Malicious Code	High	New	10.2.60.111	Potential com
	4	FAZVM r	oot	IN00000115	2021-04-02 12:20:30	Create Incident from	Malicious Code	High	New	10.2.60.143	Potential com.
	5	FAZVM r	oot	IN00000116	2021-04-02 12:20:30	Create Incident from	Malicious Code	High	New	10.2.60.143	Potential com.
	6	FAZVM r	oot	IN00000114	2021-04-02 12:19:28	Create Incident from	Malicious Code	High	New	10.2.60.143	Potential com.
	7	FAZVM r	oot	IN00000113	2021-04-02 11:51:35	Create Incident from	Malicious Code	High	New	10.2.60.111	Potential com.
	8	FAZVM r	oot	IN00000112	2021-04-02 11:49:31	Create Incident from	Malicious Code	High	New	10.2.60.143	Potential com.
	9	FAZVM r	root	IN00000111	2021-04-02 09:19:45	Create Incident from	Malicious Code	High	New	10.2.60.143	Potential com.
	10	FAZVM r	root	IN00000110	2021-04-02 07:18:33	Create Incident from	Malicious Code	High	New	10.2.60.143	Potential com.
	11	FAZVM r	oot	IN00000109	2021-04-02 07:05:04	Create Incident from	Malicious Code	High	New	VAN-200289-US2	Potential com.
	12	FAZVM r	root	IN0000108	2021-04-02 07:05:04	Create Incident from	Malicious Code	High	New	VAN-200289-US2	Potential com.
	13	FAZVM r	root	IN0000107	2021-04-02 05:52:00	Create Incident from	Malicious Code	High	New	10.2.60.111	Potential com.
	14	FAZVM r	oot	IN00000105	2021-04-02 05:04:56	Create Incident from	Malicious Code	High	New	VAN-200289-US2	Potential com.

Double-click on an incident to view the incident analysis page. The incident analysis page indicates the FortiAnalyzer and ADOM that the incident was created on. For more information on the options available to SOC analysists, see the FortiAnalyzer Administration Guide.

≡		Quick Access 🗸 🛛 🗚 🖉 ADOM: root 🖉 🕗 admin 🗸
High FAZ-VM-S-902 > test902 > IN00002325 Po	tential compromised Host detected. Malicious Code Not Assigned	New Created on: 2021-04-09T12:34:28-07:00 Last Modified on: 2021-04-09T12:35:01-07:00
☑ Edit		田>
Affected Endpoint/User	Executed Playbooks	Audit History
No related user available.	PLAYBOOK STATUS TRIGGER	2021-04-09 13:01:03 NOW 🔵 🖾 Expand All
Last Seen 2021-04-09 12:34:28 Topology 10.3.90.11 Addresses MAC: 00:0c:29:ae:dd:13 IP: 10:3.90.11	Execute Playbook	START
Comments Events Reports Indicators Affected Assets	Processes Software Vulnerabilities	
0	POST	

Appendix A - FortiAnalyzer Federation limitations

FortiAnalyzer Federation includes the following limitations in 7.0.0:

- FortiAnalyzer Federation supports the creation of incidents, event handlers, and events on members with centralizing viewing from the supervisor.
- FortiAnalyzer Federation supports log analysis, including *LogView* and *Reports*, on FortiAnalyzer Federation members.
- Incidents on the FortiAnalyzer Federation supervisor are available in read-only mode.
- FortiAnalyzers configured in high availability (HA) mode can join the FortiAnalyzer Federation as members. HA is not supported for FortiAnalyzer Federation supervisors.

Appendix B - Troubleshooting

Confirming a member has joined the Fabric

When adding a new member, check that the member has joined the Fabric.

To confirm that a member has joined the Fabric:

```
1. In the FortiAnalyzer Federation supervisor CLI, enter the following command:
     diagnose test application fazsvcd 36 nodes
     FAZ-S-901 # diagnose test application fazsvcd 36 nodes
     Supervisor:
     3632041446 (Self)
        Status: up
     Members:
     209855595
        Status : up
        Node Ping Time : 19 Apr 2021 18:41:22 (1618882882)
        Last Ping Time : 19 Apr 2021 18:41:34 (1618882894)
        Fabric Serial Number : FAZVMSTM21000123
        Platform : v7.0.0-build0037 210411 (Interim)
        Platform Type : FAZVM64
        Platform Full Name : FortiAnalyzer-VM64
        Version : v7.0.0-build0037 210411 (Interim)
        Serial Number : FAZVMSTM21000123
        Hostname : FAZVM64-Shawn-130-change
        FIPS Mode : Disabled
        HA Mode : Stand Alone
        Branch Point : 0037
        Release Version Information : Interim
        Current Time : Mon Apr 19 11:56:36 PDT 2021
        Daylight Time Saving : Yes
        Timezone : (GMT-8:00) Pacific Time (US & Canada).
        Disk Usage (free) : 442.98GB
        Disk Usage (total) : 491.15GB
        License Status : Valid
     2024759224
        Status : up
        Node Ping Time : 19 Apr 2021 18:42:30 (1618882950)
        Last Ping Time : 19 Apr 2021 18:41:34 (1618882894)
        Fabric Serial Number : FAZVMSTM20000234
        Platform : v7.0.0-build0043 210416 (Interim)
        Platform Type : FAZVM64
        Platform Full Name : FortiAnalyzer-VM64
        Version : v7.0.0-build0043 210416 (Interim)
        Serial Number : FAZVMSTM20000234
        Hostname : FAZVM-S-903
        FIPS Mode : Disabled
        HA Mode : Stand Alone
        Branch Point : 0043
        Release Version Information : Interim
```

```
Current Time : Mon Apr 19 11:57:50 PDT 2021
  Daylight Time Saving : Yes
  Timezone : (GMT-8:00) Pacific Time (US & Canada).
  Disk Usage (free) : 57.41GB
  Disk Usage (total) : 78.24GB
  License Status : Valid
2462459651
  Status : up
  Node Ping Time : 19 Apr 2021 18:42:30 (1618882950)
  Last Ping Time : 19 Apr 2021 18:41:34 (1618882894)
  Fabric Serial Number : FAZVMSTM21000345
  Platform : v7.0.0-build0043 210416 (Interim)
  Platform Type : FAZVM64
  Platform Full Name : FortiAnalyzer-VM64
  Version : v7.0.0-build0043 210416 (Interim)
  Serial Number : FAZVMSTM21000345
  Hostname : FAZ-VM-S-902
  FIPS Mode : Disabled
  HA Mode : Stand Alone
  Branch Point : 0043
  Release Version Information : Interim
  Current Time : Mon Apr 19 11:59:24 PDT 2021
  Daylight Time Saving : Yes
  Timezone : (GMT-8:00) Pacific Time (US & Canada).
  Disk Usage (free) : 406.06GB
  Disk Usage (total) : 491.15GB
  License Status : Valid
```

This diagnostic shows all of the current members on the supervisor or on the member. Ensure that the status for each member is *up*.

Member unable to join the Fabric

If the member does not join the Fabric, possible issues include:

- Incorrect supervisor IP
- Incorrect PSK
- Encryption setting mismatch between supervisor/member
- Incorrect Fabric name
- The supervisor allowaccess setting described above does not include the soc-fabric setting
- The supervisor is not reachable by the member, use ping to confirm.
- The supervisor/member is not running.

The supervisor uses a mixture of synchronized data and data retrieved directly from the member. This data is retrieved through the Fabric from the JSONAPI service running on the member, so it is possible to view cached alert information while the member is not actually running.

Server error: Fabric member not available

Problem: When selecting an alert, the supervisor displays Server Error: Fabric member xxx is not available.

Description: The supervisor is not able to contact the member through the Fabric.

To troubleshoot a server error:

- 1. Ensure that the member has booted and is running.
- 2. Ensure that the member has connected to the Fabric using the following CLI command: diagnose test application fazsvcd 36 nodes

JSONAPI service reports error

Problem: When selecting an alert, the supervisor displays: JSONAPI Service reports: <error message>.

Description: The member has joined the Fabric, but the JSONAPI service of the member cannot service the request.

To troubleshoot a JSON API service reports error:

- 1. Ensure that the member has completely booted up.
- 2. Determine if the member is performing some type of database rebuild which may prevent service availability.
- Access the members' GUI to determine if it can use its own JSONAPI service. More detailed connectivity information is available using the following diagnostics, which can be run on the supervisor and member:

diagnose test application fazsvcd 56 diagnose test application fazsvcd 53 diagnose test application fazsvcd 36 members



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