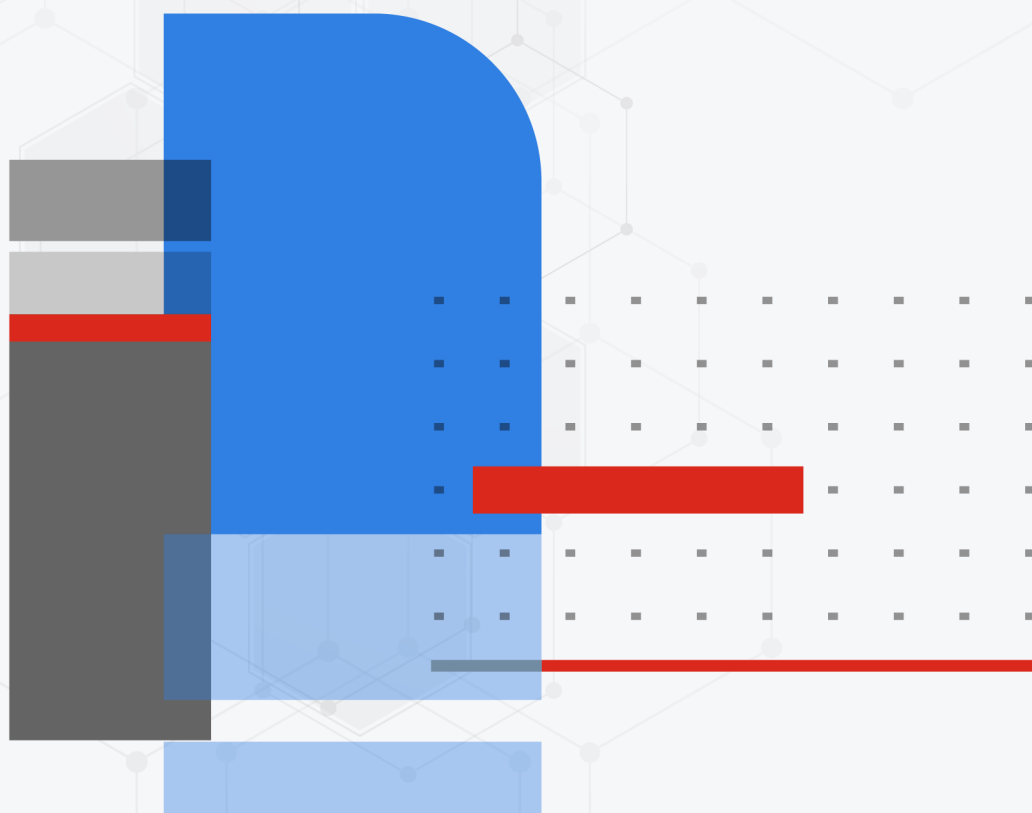




New Features Guide

FortiAnalyzer 7.4.0



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March 26, 2024

FortiAnalyzer 7.4.0 New Features Guide

05-740-898228-20240326

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Change Log

Date	Change Description
2023-05-15	Initial release.
2023-05-16	Added: <ul style="list-style-type: none">• Per-ADOM log rate on page 76• Fabric of FAZ: Central report support and creating Fabric groups on page 143
2023-05-19	Added: <ul style="list-style-type: none">• Webhook Connector to Support MS Teams on page 13• Report guidance on page 93• CIS Controls Security Rating report on page 100
2023-05-31	Added Operational Technology on page 156 .
2023-06-16	Added: <ul style="list-style-type: none">• FortiSoC GUI reorganization on page 46• New charts in the Asset Identity Center on page 44• Shadow IT Report on page 101• Time zone settings per ADOMs/Reports on page 115
2023-06-21	Added Fluentd support for public cloud integration on page 89 .
2023-06-30	Added Operational Technology (OT) Security Service on page 156 .
2023-07-17	Updated Time zone settings per ADOMs/Reports on page 115 .
2023-08-31	Initial release of FortiAnalyzer 7.4.1.
2023-09-06	Added MITRE ATT&CK matrices for Enterprise and ICS 7.4.1 on page 51 .
2023-09-14	Updated Webhook Connector to Support MS Teams on page 13 .
2023-09-26	Added Geo-redundant High Availability (HA) on page 121 .
2023-10-04	Updated MITRE ATT&CK matrices for Enterprise and ICS 7.4.1 on page 51 .
2023-10-11	Updated Shadow IT Report on page 101 .
2023-10-13	Added FortiManager and FortiAnalyzer support HTTP/2 for improved security, multiplexing, and reduced network latency 7.4.1 on page 148 .
2023-10-20	Added: <ul style="list-style-type: none">• Licensing adjustment on page 164• New API to restore logs on page 118• Playbook event trigger correlation rules 7.4.1 on page 19• SD-WAN Cloud Assisted Monitoring service widgets 7.4.1 on page 31• Support parsing and addition of third-party application logs to the SIEM DB in JSON format 7.4.1 on page 84

Date	Change Description
2023-11-01	Added Exporting a report with settings 7.4.1 on page 108 .
2023-11-24	Added: <ul style="list-style-type: none">• FortiEDR Report 7.4.1 on page 105• ISO 27001:2022 Compliance Security Rating Report 7.4.1 on page 107• FortiAnalyzer supports packet header information for FortiWeb traffic log 7.4.1 on page 86
2023-12-21	Initial release of FortiAnalyzer 7.4.2.
2024-01-24	Added: <ul style="list-style-type: none">• Data leak prevention monitor in FortiView 7.4.1 on page 35• HIPAA report 7.4.2 on page 114• Compromised hosts improvements 7.4.2 on page 40• Per-ADOM admin profile 7.4.2 on page 127
2024-02-02	Added: <ul style="list-style-type: none">• New predefined correlation event handlers on page 20• FortiProxy central visibility 7.4.1 on page 38• Replay attacks in the Threat Map 7.4.2 on page 42• Update to the Event Handler rule configuration 7.4.2 on page 26
2024-03-07	Added <ul style="list-style-type: none">• Deliver reports, event handlers, and SIEM rules as FortiGuard packages 7.4.2 on page 62• Support additional log fields for long live session logs 7.4.2 on page 88
2024-03-26	Added: <ul style="list-style-type: none">• Reference individual fabric devices 7.4.1 on page 9• DLP report 7.4.1 on page 110• PCI DSS security rating report update 7.4.1 on page 112• MITRE information included in outbreak detection 7.4.2 on page 66

Overview

This guide provides details of new features introduced in FortiAnalyzer 7.4. For each feature, the guide provides detailed information on configuration, requirements, and limitations, as applicable.

The FortiAnalyzer new features are organized into the following categories:

- [Security Fabric on page 9](#)
- [Fabric View on page 13](#)
- [Security Operations \(SOC\) on page 19](#)
- [Log and Report on page 69](#)
- [System on page 121](#)
- [Cloud Services on page 152](#)
- [Operational Technology on page 156](#)
- [Other on page 164](#)

For a list of all features organized by the version number that they were introduced, see [Index on page 167](#).

Security Fabric

This section lists the new features added to FortiAnalyzer for Security Fabric:

- Others on page 9

Others

This section lists the new features added to FortiAnalyzer for other topics relating to Security Fabric:

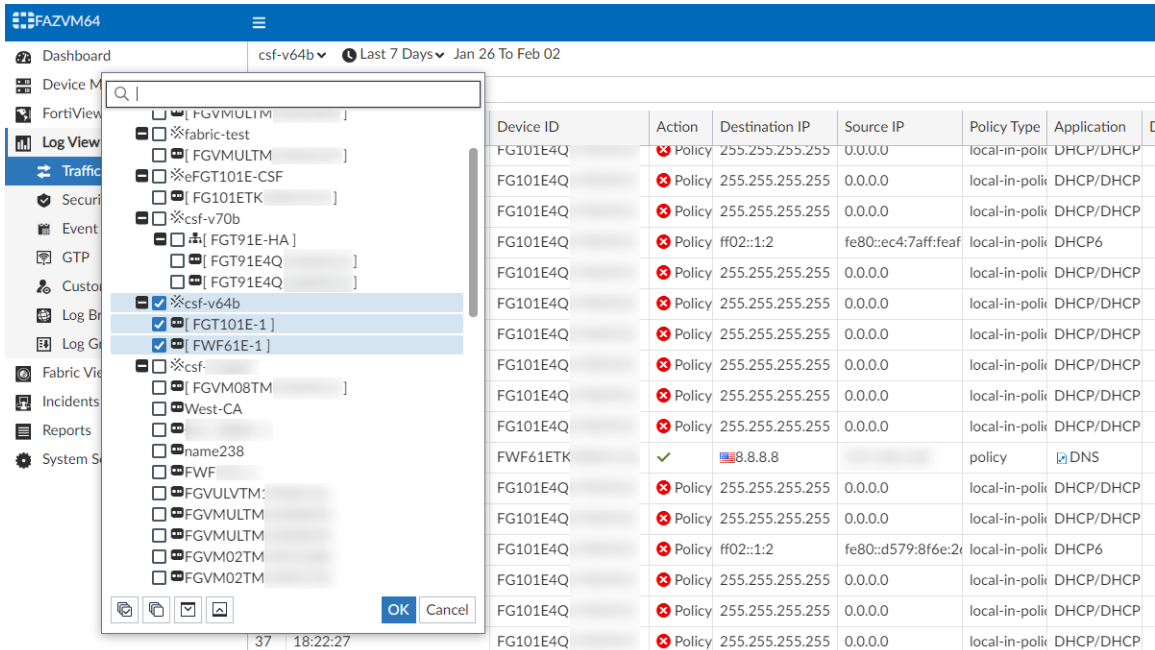
- Reference individual fabric devices 7.4.1 on page 9

Reference individual fabric devices - 7.4.1

You can now refer to individual devices or to the full fabric when filtering by device in *LogView*, *FortiView*, and *Reports*.

To select fabric devices in LogView:

- In *LogView*, click the device dropdown. In this example, the admin uses *LogView > Traffic*.
- Select the security fabric name to select the entire fabric security. Logs are filtered accordingly.



- Alternatively, select devices within the fabric separately. Logs are filtered accordingly.

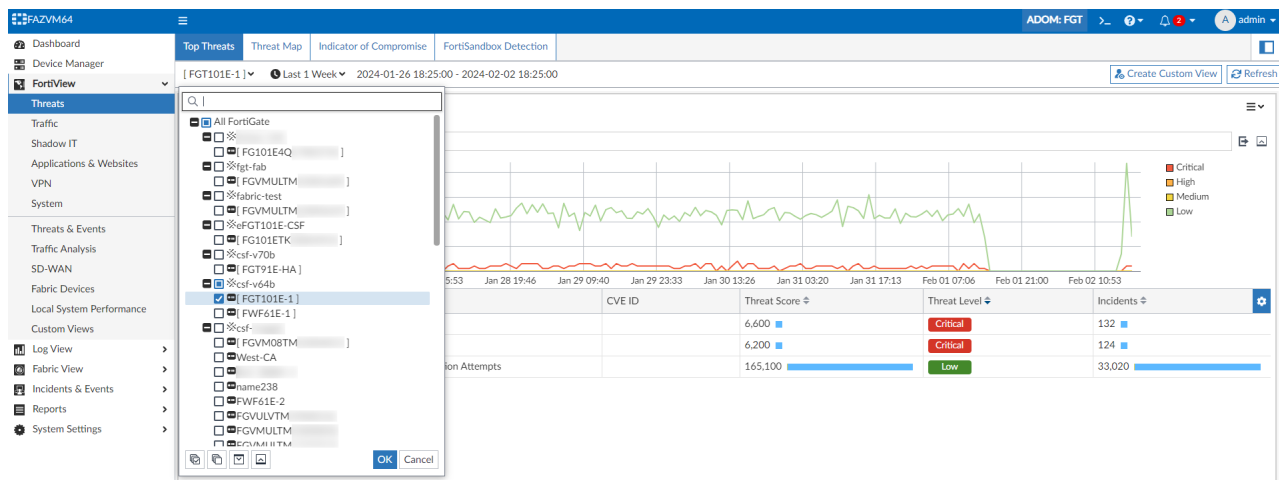
Device ID	Action	Destination IP	Source IP	Policy Type	Application
G101E4Q	Policy	255.255.255.255	0.0.0.0	local-in-polik	DHCP/DHCP
G101E4Q	Policy	255.255.255.255	0.0.0.0	local-in-polik	DHCP/DHCP
G101E4Q	Policy	ff02::1:2	fe80::d579:8f6e:2	local-in-polik	DHCP6
G101E4Q	Policy	255.255.255.255	0.0.0.0	local-in-polik	DHCP/DHCP
G101E4Q	✓			local-in-polik	IPSec
G101E4Q	Policy	255.255.255.255	0.0.0.0	local-in-polik	DHCP/DHCP
G101E4Q	Policy	255.255.255.255	0.0.0.0	local-in-polik	DHCP/DHCP
G101E4Q	Policy	255.255.255.255	0.0.0.0	local-in-polik	DHCP/DHCP
G101E4Q	Policy	255.255.255.255	0.0.0.0	local-in-polik	DHCP/DHCP
G101E4Q	Policy	255.255.255.255	0.0.0.0	local-in-polik	DHCP/DHCP
G101E4Q	Policy	255.255.255.255	0.0.0.0	local-in-polik	DHCP/DHCP
G101E4Q	Policy	ff02::1:2	fe80::ec4:7aff:feaf	local-in-polik	DHCP6
G101E4Q	Policy	255.255.255.255	0.0.0.0	local-in-polik	DHCP/DHCP
G101E4Q	Policy	255.255.255.255	0.0.0.0	local-in-polik	DHCP/DHCP
G101E4Q	Policy	255.255.255.255	0.0.0.0	local-in-polik	DHCP/DHCP

To select fabric devices in FortiView

- In a *FortiView* dashboard, click the device dropdown. In this example, the admin uses *FortiView > Threats > Top Threats*.
- Select the security fabric name to select the entire fabric security. Data is filtered accordingly.

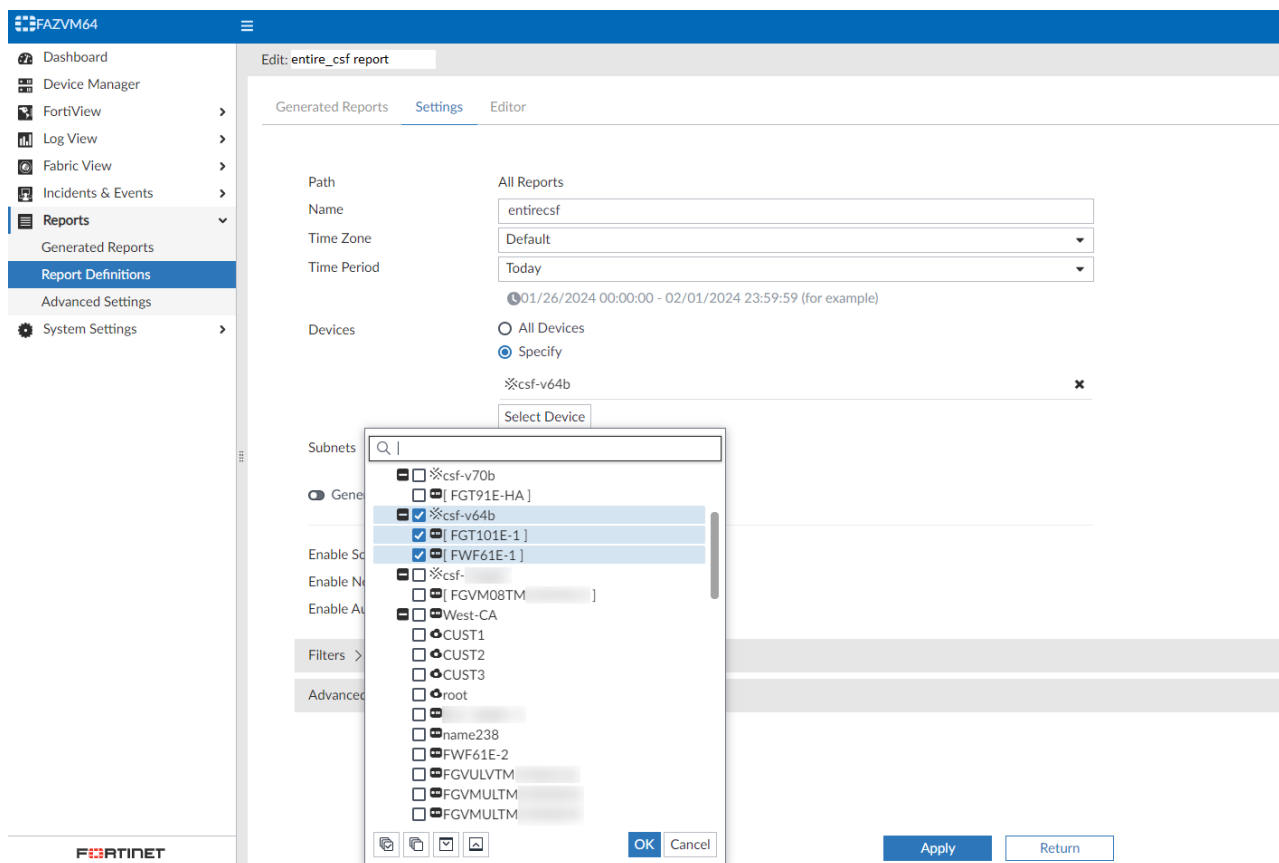
CVE ID	Threat Score	Threat Level	Incidents
	14,800	Critical	296
	14,650	Critical	293
ion Attempts	358,600	Low	71,720

3. Alternatively, select devices within the fabric separately. Data is filtered accordingly.

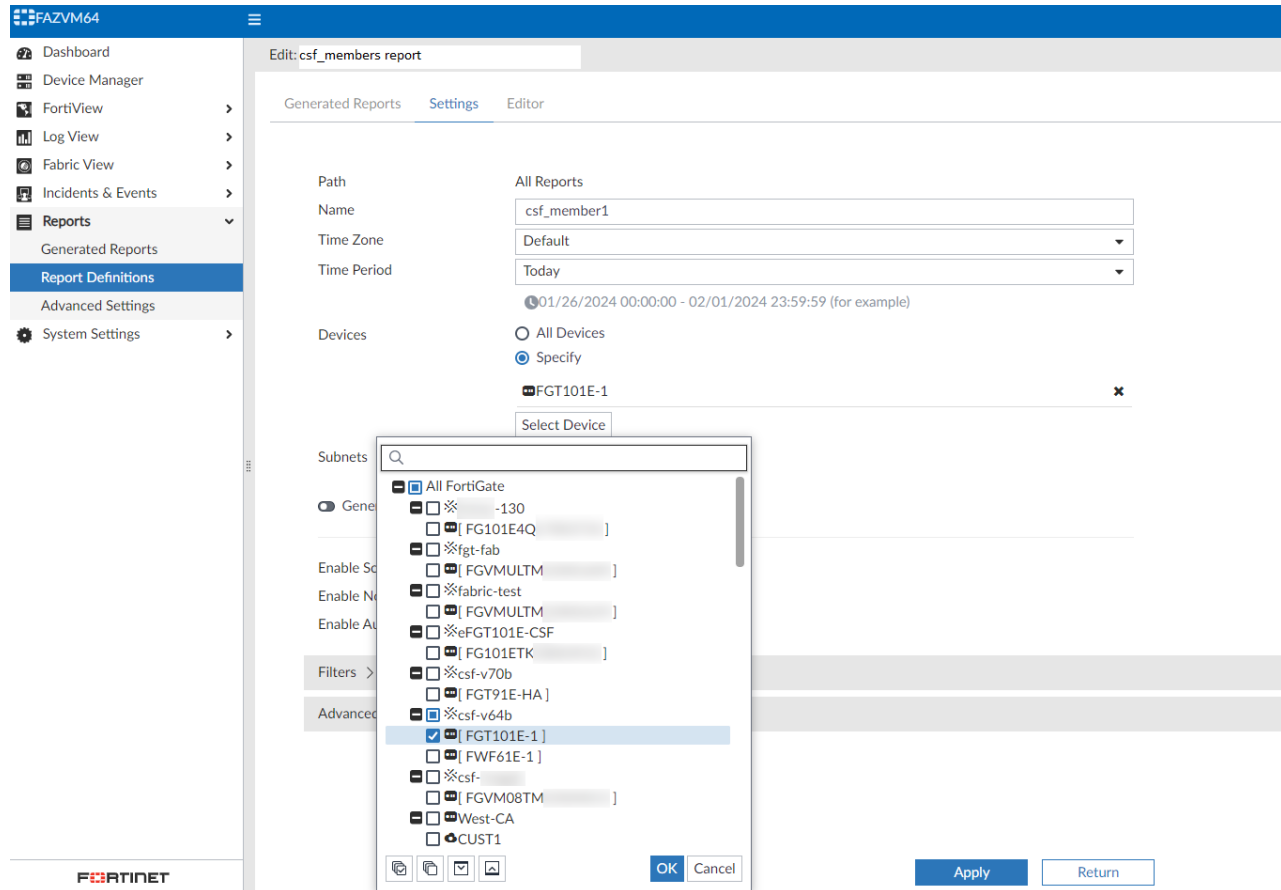


To select fabric devices in Reports:

1. In *Report Definitions*, select a report and click *Edit*.
2. Go to the *Settings* tab.
3. For the *Devices* field, select *Specify* and click the device dropdown.
4. Select the security fabric name to select the entire fabric security. After the changes are applied, a report for the complete security fabric can be generated.



5. Alternatively, select devices within the fabric separately. Data is filtered accordingly. After the changes are applied, a report for the selected devices can be generated.



Fabric View

This section lists the new features added to FortiAnalyzer for Fabric View:

- [Connectors on page 13](#)

Connectors

This section lists the new features added to FortiAnalyzer for connectors:

- [Webhook Connector to Support MS Teams on page 13](#)

Webhook Connector to Support MS Teams



This information is also available in the FortiAnalyzer 7.4 Administration Guide:

- [Creating or editing ITSM connectors](#)

A webhook connector has been added in FortiAnalyzer to support MS Teams. This connector can be used to post a message in MS Teams.

After an MS Teams connector is created, it can be added in the incident settings, notification profiles for event handlers, or as part of a playbook.

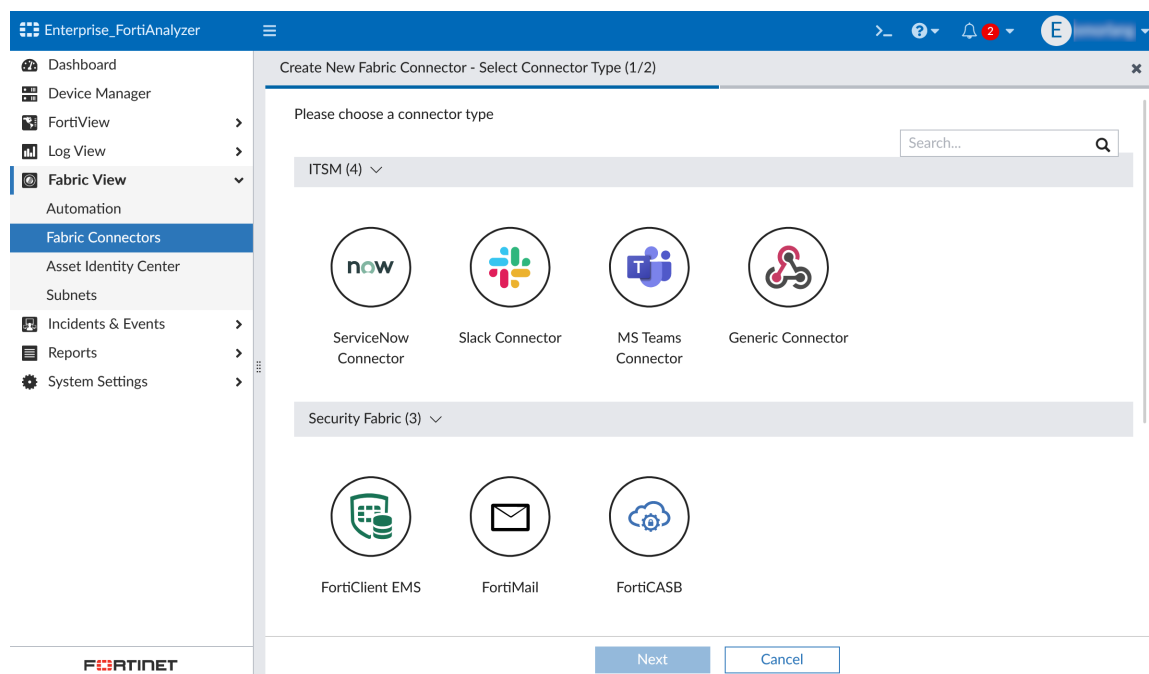
This topic contains the following instructions:

- [To create a MS Teams connector:](#)
- [To use the MS Teams connector in a playbook:](#)
- [To use the MS Teams connector in incident settings:](#)
- [To use the MS Teams connector in a notification profile:](#)

To create a MS Teams connector:

1. Go to *Fabric View > Fabric Connectors*.
2. Click *Create New*.

The *Create New Fabric Connector* pane displays.



3. In the *ITSM* section, double-click *MS Teams Connector*.
4. Configure the following options:

Name	Type a name for the fabric connector.
Description	(Optional) Type a description for the fabric connector.
Protocol	Select HTTPS.
Method	Select POST.
Title	Type a title for the fabric connector.
Teams Webhook URL	Enter the incoming webhook URL created in MS Teams.
HTTP Body	Enter the HTTP body of the message that should be sent by the connector. For example, { \"text\": \"<message to send>\" }.
Status	Enabled by default. The connector can be disabled, as needed.

Enterprise_FortiAnalyzer

Create New Fabric Connector - MS Teams Connector (2/2)

Connector Settings

Name: Send message to MS Teams

Description:

Microsoft Teams

Protocol: HTTPS

Method: POST

Title: Alert

Teams Webhook URL: https://outlook.office.com/webhook/xxxxxx/IncomingWebhook/xxxxxx/xxxxxx

HTTP Body: { \"text\": \"<message to send>\" }

Status: ☒

Back OK Cancel

5. Click **OK**.

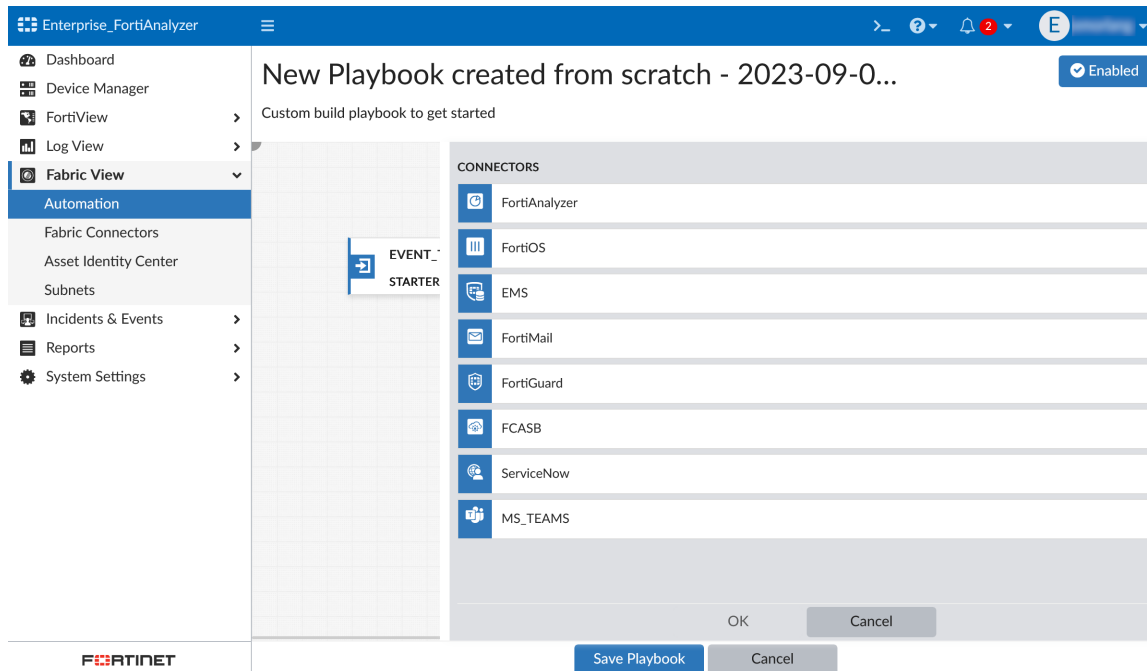
Use `{ }` for macros in the *HTTP Body* field. The following macros and variables are supported:

Category	Variable	Macro	Description
Global	type	<code>\${type}</code>	Notification type
Global	adom	<code>\${adom}</code>	Adom name
Global	from	<code>\${from}</code>	FAZ SN
Global	timestamp	<code>\${timestamp}</code>	Notification timestamp
Event	event	<code>\${event}</code>	All event fields
Event	eventid	<code>\${event.eventid}</code>	Event id
Event	alertid	<code>\${event.alertid}</code>	Alert id (same with eventid, but name consistent with previous notification format)
Event	logtype	<code>\${event.logtype}</code>	Log type
Event	devtype	<code>\${event.devtype}</code>	Device type
Event	eventtime	<code>\${event.eventtime}</code>	Event time
Event	alerttime	<code>\${event.alerttime}</code>	Alert time (same with eventtime, but name consistent with previous notification format)
Event	firstlogtime	<code>\${event.firstlogtime}</code>	First log time
Event	lastlogtime	<code>\${event.lastlogtime}</code>	Last log time
Event	devid	<code>\${event.devid}</code>	Device id

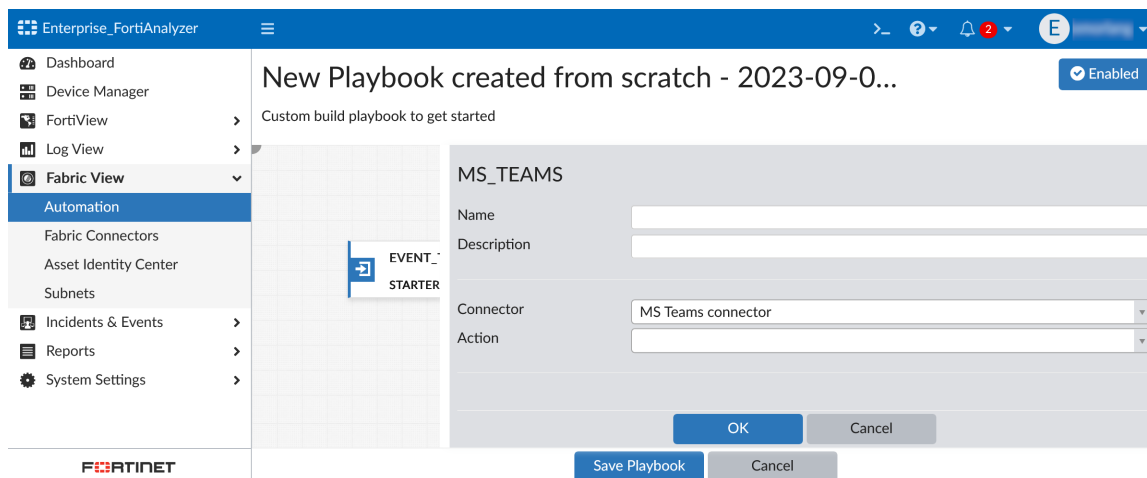
Category	Variable	Macro	Description
Event	devname	\${event.devname}	Device name
Event	eventtype	\${event.eventtype}	Event type
Event	groupby1	\${event.groupby1}	groupby1
Event	groupby2	\${event.groupby2}	groupby2
Event	groupby3	\${event.groupby3}	groupby3
Event	indicator	\${event.indicator}	indicator
Event	severity	\${event.severity}	severity
Event	subject	\${event.subject}	subject
Event	tag	\${event.tag}	tag
Event	triggername	\${event.triggername}	Trigger name
Event	vdom	\${event.vdom}	vdom
Event	epid	\${event.epid}	epid
Event	euid	\${event.euid}	euid
Event	epip	\${event.epip}	epip
Event	epname	\${event.epname}	epname
Event	euname	\${event.euname}	euname
Event	extrainfo	\${event.extrainfo}	Additional info
Event	log-length	\${event.log-length}	Log length
Event	log-detail	\${event.log-detail}	Log detail
Incident	incident	\${incident}	All incident fields
Incident	incid	\${incident.incid}	Incident ID
Incident	type	\${incident.type}	Notification type
Incident	revision	\${incident.revision}	revision
Incident	attach_revision	\${incident.attach_revision}	attach revision

To use the MS Teams connector in a playbook:

1. When adding a connector in a playbook, select **MS_TEAMS**.



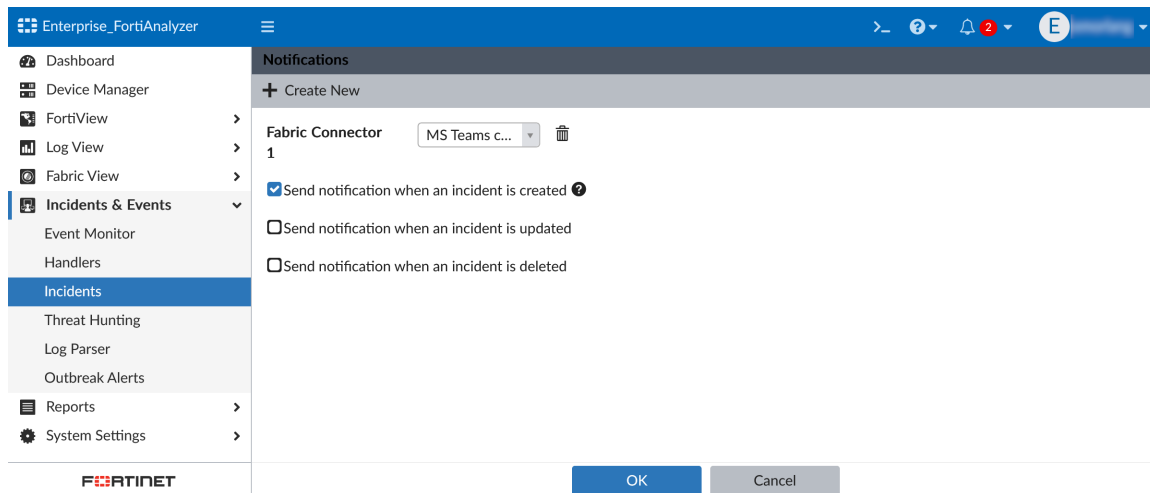
2. From the *Connector* dropdown, select the MS Teams connector that you created.



3. Configure the other options for the playbook as needed.
For more information, see the [FortiAnalyzer Administration Guide](#).

To use the MS Teams connector in incident settings:

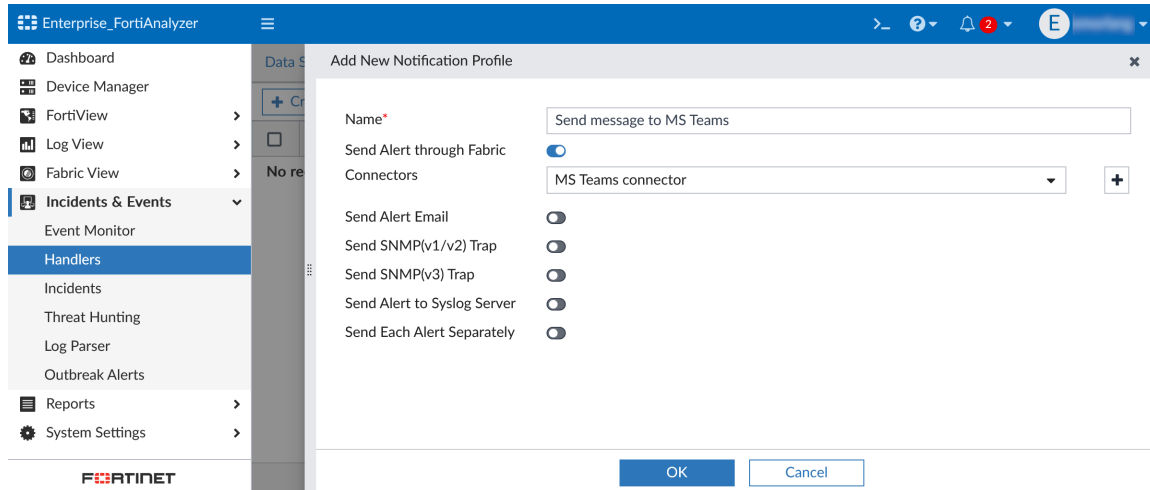
1. Go to *Incidents & Events > Incidents*.
2. In the toolbar, click *Settings*.
3. From the *Fabric Connector* dropdown, select the MS Teams connector that you created.



4. Configure the other options for the incident settings as needed.
For more information, see the [FortiAnalyzer Administration Guide](#).

To use the MS Teams connector in a notification profile:

1. When selecting the *Connectors* for a notification profile, select the MS Teams connector that you created.



2. Configure the other options for the notification profile as needed.
For more information, see the [FortiAnalyzer Administration Guide](#).

Security Operations (SOC)

This section lists the new features added to FortiAnalyzer for security operations (SOC):

- [SOC automation on page 19](#)
- [Incident and Event Management on page 20](#)
- [Dashboards on page 31](#)
- [Asset and Identity on page 44](#)
- [Others on page 46](#)

SOC automation

This section lists the new features added to FortiAnalyzer for SOC automation:

- [Playbook event trigger correlation rules 7.4.1 on page 19](#)

Playbook event trigger correlation rules - 7.4.1



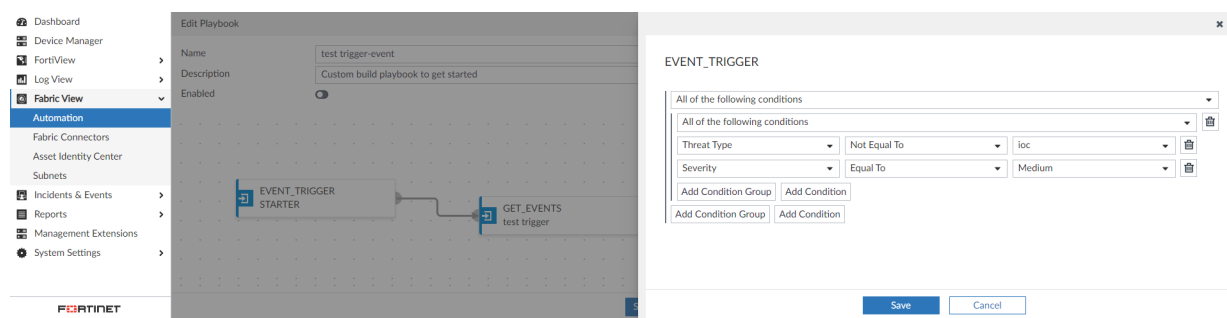
This information is also available in the FortiAnalyzer 7.4 Administration Guide:

- [Playbook triggers and tasks](#)

FortiAnalyzer v7.4.1 introduces extra flexibility on playbooks by implementing:

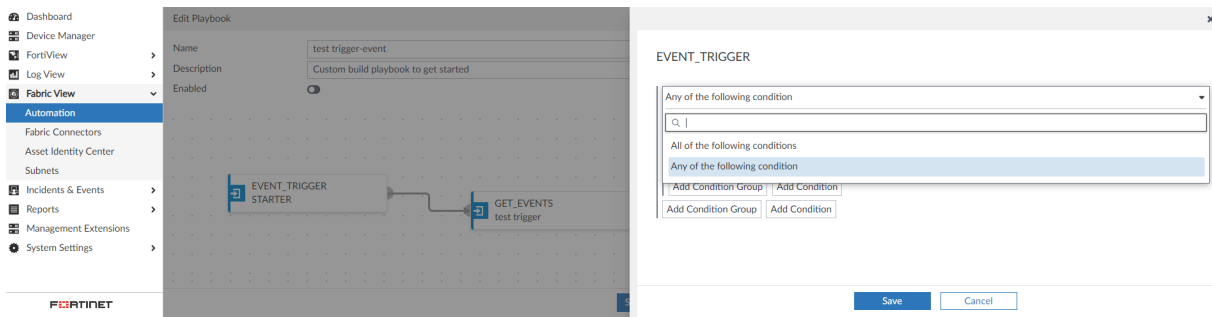
- Option to select *Any of the following conditions* (OR): The event is triggered if any of the defined conditions are met.
- Nested groups: Conditions can be grouped together and linked by either AND or OR.

When creating a playbook in *Fabric View > Automation > Playbook*, the *EVENT_TRIGGER* configuration includes options to *Add Condition* and *Add Condition Group*.

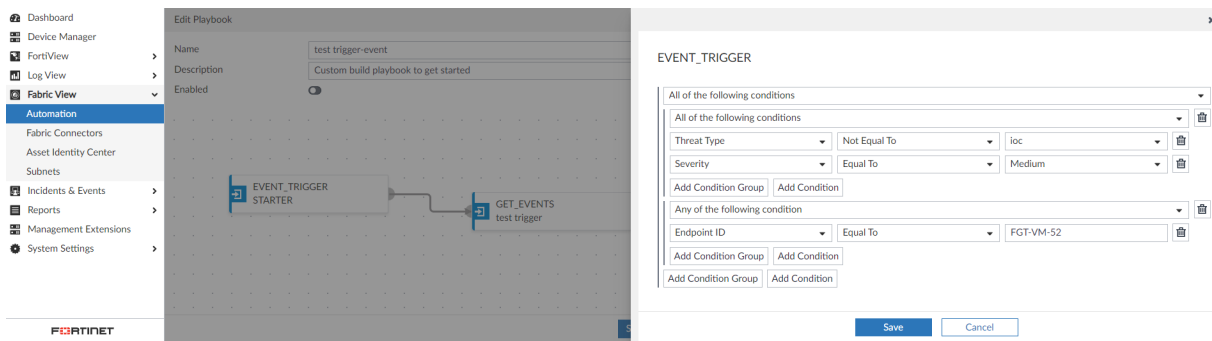


When adding a condition, you can select one of the following:

- *All of the following conditions* (AND)
- *Any of the following conditions* (OR)



The conditions can be nested in groups. For example, "(group1 AND group2) OR (group3)". See below.



Incident and Event Management

This section lists the new features added to FortiAnalyzer for incident and event management:

- [New predefined correlation event handlers on page 20](#)
- [Update to the Event Handler rule configuration 7.4.2 on page 26](#)

New predefined correlation event handlers

In 7.4.0, 33 predefined correlation event handlers have been added for nine use cases. The nine use cases include:

Use case	Description
Command & Control (CnC)	To identify suspicious traffic between internal systems and external destinations.
Credential Access	To identify when credentials are compromised, indicating that an attacker may have gained access.
Defense Evasion	To identify if an endpoint is compromised.
Execution	To identify if any malware is downloaded and executed.
Exfiltration	To identify any data leaks in the network.
Initial Access	To identify any suspicious activities after a new user gained access.

Use case	Description
Lateral Movement	To identify if there is any advancement from the attacker on a already compromised network.
Persistence	To identify when an attacker maintains unauthorized access and performs malicious activities.
Privilege Escalation	To identify if an attacker tries to get access over sensitive information.

To view the predefined correlation event handlers, go to *Incidents & Events > Handlers > Correlation Handlers*. From the *More* dropdown, select *Show Predefined* and deselect *Show Custom*. The related use case is included in the name of the predefined correlation event handler.

Correlation event handler	Description
CnC - Botnet CnC Communication Detected	Botnet communication detected and multiple TXT type DNS request detected which is a way of hiding the communication to botnet and carry commands from the botnet. This is strong indication there is a botnet attack event.
CnC - Default Access To A Suspicious Domain After SSH Command Block For Many Times	A user tries to SSH from FortiGate to an endpoint get blocked for many times shortly followed by access to a suspicious domain from that endpoint may indicate the endpoint is compromised.
CnC - Default Incoming Botnet CnC Communication Callback Detected	Incoming Botnet communication detected followed by multiple TXT type DNS request which is a way to hide the Command and Control communication to the botnet. This may indicate the endpoint is trying to send the message to the botnet to confirm the endpoint is being controlled, and carry commands from the botnet.
CnC - Default Intrusion Detected After SSH Command Block For Many Times	A user try to SSH from FortiGate to another device but failed for many times followed by intrusion detected from the endpoint the user tries to access to. This may indicate the user has gained access to the endpoint and trigger the intrusion.
CnC - Default Outgoing Botnet CnC Communication Callback Detected	Outgoing Botnet communication detected followed by multiple TXT type DNS request which is a way to hide the Command and Control communication to the botnet. This may indicate the endpoint is trying to send the message to the botnet to confirm the endpoint is being controlled, and carry commands from the botnet.
CnC - Default Risky App Detected After SSH Command Block For Many Times	A user tries to SSH from FortiGate to an endpoint gets blocked many times shortly followed by risky app detected from that endpoint, which may indicate the endpoint is compromised.
CnC - Default Suspicious Traffic from Infected Endpoint	This handler is to detect if an endpoint is infected and there is a large traffic from the same endpoint.
Credential Access - Default Brute Force Account Login Attack FAZ	This handler is to detect if an account login failed many times not followed by a login success for FortiAnalyzer.
Credential Access - Default Brute Force Account Login Attack FGT	This handler is to detect if an account login failed many times not followed by a login success for FortiGate.

Correlation event handler	Description
Credential Access - Default Credentials Were Read After Special Privileges Assigned	Privileges assigned to a user shortly followed by credentials were read may indicate the user is suspicious.
Defense Evasion - Default Access To A Suspicious Domain After Malware Downloaded	Access to a suspicious domain after attempted to download malware but blocked for many times which may indicated the malware is penetrated the defense and the device is compromised.
Defense Evasion - Default Access To A Suspicious Domain After Risky App Detected	High/Critical risk App detected followed by connection to a new registered domain may indicate the risky app is trying to talk to a botnet server which require attention.
Defense Evasion - Default Attack Event Detected After Malware Downloaded	Malware download detected followed by an attack event may indicate the endpoint is compromised by the malware.
Defense Evasion - Default Communication To Botnet Detected After Malware Detected	Malware download detected followed by multiple TXT type DNS request which is a way of hiding the communication to botnet and carry commands from the botnet. This may indicate the endpoint is being controlled.
Defense Evasion - Default Intrusion Detected After KERBEROS Traffic Violation	KERBEROS traffic violation followed by intrusion detected may indicated the unwanted user gain access to the endpoint by KERBEROS.
Defense Evasion - Default Intrusion Detected After Malware Detected	Malware download blocked for many times followed by intrusion detected. This may indicate the malware is penetrated the defense and the endpoint is compromised.
Defense Evasion - Default Intrusion Detected After Risky App Detected	High/Critical risk App detected followed by intrusion detected may indicate the risky app triggered the intrusion.
Defense Evasion - Default SUNBURST Domain Traffic Detected After Malware Downloaded	SUNBURST Domain Traffic Detected after malware download attempt blocked multiple times. This event may indicate the malware escaped and executed to communicate with SUNBURST Command and Control servers.
Execution - Default Malware Downloaded And Execution Detected	User attempted to download malware on their endpoint for many times followed by detecting high or critical risk app on FortiGate application control log may indicate the user bypassed the security and downloaded the malware, and then executed the malware or infected software.
Exfiltration - Default Data Leak Detected After Risky App Detected	High/Critical risk App detected followed by data leak detected may indicate the endpoint is compromised.
Exfiltration - Default Data Leak Detected After SSH Command Block For Many Times	A user tries to SSH from FortiGate to an endpoint get blocked for many times shortly followed by data leak from that endpoint may indicate the endpoint is compromised.

Correlation event handler	Description
Initial Access - Default Kernel Module Removed After A New User Access To The Linux via Shell	A new user access to the Linux via shell followed by the kernel module is removed may indicate the new user is suspicious.
Initial Access - Default Syslog Logging Service Deactivated After A New User Access To The Linux via Shell	Potential shell access via web server or new user access to the Ubuntu shell followed by syslog logging service disabled may indicate the unwanted user has gained the access to the endpoint and disabled the syslog logging service.
Lateral Movement - Default Access To A Suspicious Domain On A Device with Vulnerability	Access to a suspicious domain on a device with vulnerability, which may indicate the device is compromised.
Lateral Movement - Default Data Leak Found On A Device with Vulnerability	Data Leak Found On a Device with Vulnerability may indicate the device is compromised.
Lateral Movement - Default Virus Detected On A Device with Vulnerability	Virus detected on a device with vulnerability may indicate it is compromised; need not only remove the virus, but also fix the vulnerability.
Lateral Movement - Default Vulnerability And Intrusion Detected	Vulnerability detected by FCT and intrusion detected. Both event happened on an endpoint may indicate the endpoint is compromised.
Persistence - Default Firewall Service Deactivated After Authentication Failed For Many Times	Authentication failed for many times followed by firewall service deactivated may indicate the unwanted user has gained the access to the endpoint and disabled the firewall service.
Persistence - Default Kernel Module Removed After Authentication Failed For Many Times	Authentication failed for many times followed by kernel module removed may indicate the unwanted user has gained the access to the endpoint and removed the kernel module.
Persistence - Default Syslog Logging Service Deactivated After Authentication Failed For Many Times	Authentication failed for many times followed by syslog logging service deactivated may indicate the unwanted user has gained the access to the endpoint and disabled the logging service.
Privilege Escalation - Default Firewall Disabled After Special Privileges Assigned to New Logon	Firewall disabled after special privileges assigned to new logon may indicate this new logon user is suspicious.
Privilege Escalation - Default Windows Event Logging Service Is Down Or Log Is Cleared After Privileges Assigned	Privileges assigned to a user shortly followed by event logging server is down or log is cleared may indicate the user is suspicious.

Correlation event handler	Description
Privilege Escalation - Default Windows System Time Was Changed After Privileges Assigned To A New Logon	Privileges assigned to a new logon followed by windows system time was changed may indicate this is a time travel attack. For example, setting the clock back on a client to a previous point in time could cause the system to accept rogue Transport Layer Security (TLS) certificates that may have been already revoked, thereby giving attackers a way to decrypt encrypted communications.

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Dashboard Device Manager FortiView Log View Fabric View Incidents & Events Event Monitor **Handlers** Reports System Settings

Data Selectors Notification Profiles Basic Handlers **Correlation Handlers**

+ Create New Edit Delete Clone More Search...

<input type="checkbox"/>	Status	Name	Correlation	Data Selector	Notification Profile	Auto
<input type="checkbox"/>	✗	CnC - Botnet CnC Communication Detec...	Botnet Communication Detected AND M...			No
<input type="checkbox"/>	✗	CnC - Default Access to a Suspicious Do...	SSH Command Block for 10 Times FOLL...			No
<input type="checkbox"/>	✗	CnC - Default Incoming Botnet CnC Com...	Incoming Botnet Attack FOLLOWED_BY[...			No
<input type="checkbox"/>	✗	CnC - Default Intrusion Detected After S...	SSH Command Blocked for More Than 1...			No
<input type="checkbox"/>	✓	CnC - Default Outgoing Botnet CnC Com...	Outgoing Botnet Attack Detected FOLLO...			No
<input type="checkbox"/>	✗	CnC - Default Risky App Detected After ...	SSH Command Block for More Than 10 T...			No
<input type="checkbox"/>	✓	CnC - Default Suspicious Traffic from Infe...	(Traffic to Botnet CnC detected or blocke...			No
<input type="checkbox"/>	✓	Credential Access - Default Brute Force ...	Login Failed 5 Times NOT_FOLLOWED_...			No
<input type="checkbox"/>	✓	Credential Access - Default Brute Force ...	Login Failed 5 times NOT_FOLLOWED_B...			No
<input type="checkbox"/>	✗	Credential Access - Default Credentials ...	Special Privileges Assigned to New Logon...			No
<input type="checkbox"/>	✓	Defense Evasion - Default Access to a Su...	Risky App Detected FOLLOWED_BY[10...			No
<input type="checkbox"/>	✓	Defense Evasion - Default Access to a Su...	Malware Download Detected AND Acces...			No

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FAZVM64

Dashboard Device Manager FortiView Log View Fabric View Incidents & Events Event Monitor **Handlers** Reports System Settings

Data Selectors Notification Profiles Basic Handlers **Correlation Handlers**

+ Create New Edit Delete Clone More Search...

<input type="checkbox"/>	Status	Name	Correlation	Data Selector	Notification Profile	Auto
<input type="checkbox"/>	✓	Defense Evasion - Default Access to a Su...	Malware Download Detected AND Acces...			No
<input type="checkbox"/>	✓	Defense Evasion - Default Attack Event ...	Malware Download Detected FOLLOWE...			No
<input type="checkbox"/>	✗	Defense Evasion - Default Communicatio...	Malware Download Detected FOLLOWE...			No
<input type="checkbox"/>	✗	Defense Evasion - Default Intrusion Dete...	KERBEROS Traffic Violation Detected FO...			No
<input type="checkbox"/>	✗	Defense Evasion - Default Intrusion Dete...	Malware Download Detected FOLLOWE...			No
<input type="checkbox"/>	✗	Defense Evasion - Default Intrusion Dete...	Risky App Detected FOLLOWED_BY[10...			No
<input type="checkbox"/>	✓	Defense Evasion - Default SUNBURST D...	Malware Download Detected FOLLOWE...			No
<input type="checkbox"/>	✗	Execution - Default Malware Downloade...	Malware Download Detected FOLLOWE...			No
<input type="checkbox"/>	✓	Exfiltration - Default Data Leak Detected ...	Risky App Detected FOLLOWED_BY[10...			No
<input type="checkbox"/>	✗	Exfiltration - Default Data Leak Detected ...	SSH Command Block for More Than 10 T...			No
<input type="checkbox"/>	✗	Initial Access - Default Kernel Module Re...	Potential Shell Access via Web Server or ...			No
<input type="checkbox"/>	✓	Initial Access - Default Syslog Logging Ser...	Potential Shell Access via Web Server or ...			No

51% 33

FAZVM64		> ? 1 A admin					
<div> <div>Dashboard</div> <div>Device Manager</div> <div>FortiView</div> <div>Log View</div> <div>Fabric View</div> <div>Incidents & Events</div> <div>Event Monitor</div> <div>Handlers</div> <div>Incidents</div> <div>Threat Hunting</div> <div>Log Parser</div> <div>Outbreak Alerts</div> <div>Reports</div> <div>System Settings</div> </div>	Data Selectors		Notification Profiles		Basic Handlers		Correlation Handlers
	+ Create New		Edit		Delete		More
							Search...
	<input type="checkbox"/>	Status	Name	Correlation	Data Selector	Notification Profile	Auto
	<input type="checkbox"/>		Initial Access - Default Kernel Module Re...	Potential Shell Access via Web Server or ...			No
	<input type="checkbox"/>		Initial Access - Default Syslog Logging Ser...	Potential Shell Access via Web Server or ...			No
	<input type="checkbox"/>		Lateral Movement - Default Access to a S...	FCT Vulnerability Detected AND Access t...			No
	<input type="checkbox"/>		Lateral Movement - Default Data Leak Fo...	FCT Vulnerability Detected AND Data Le...			No
	<input type="checkbox"/>		Lateral Movement - Default Virus Detect...	FCT Vulnerability Detected AND Virus D...			No
	<input type="checkbox"/>		Lateral Movement - Default Vulnerability ...	FCT Vulnerability Detected AND Intrusio...			No
	<input type="checkbox"/>		Persistence - Default Firewall Service De...	(Attempt to Disable Firewall for Many Ti...			No
	<input type="checkbox"/>		Persistence - Default Kernel Module Rem...	Sudo Authentication Failed for Many Tim...			No
	<input type="checkbox"/>		Persistence - Default Syslog Logging Serv...	Sudo Authentication Failed Many Times F...			No
	<input type="checkbox"/>		Privilege Escalation - Default Firewall Dis...	Special Privileges Assigned to New Logon...			No
	<input type="checkbox"/>		Privilege Escalation - Default Windows E...	Special Privileges Assigned to New Logon...			No
	<input type="checkbox"/>		Privilege Escalation - Default Windows S...	Special Privileges Assigned to New Logon...			No
FORTINET		100% 33					

To edit a predefined correlation event handler, select it and click *Edit*. You can enable or disable these handlers according to your needs. You can also include a data selector or notification profile where appropriate. For more information about editing a correlation event handler, see [Creating a custom correlation handler](#) in the FortiAnalyzer Administration Guide.

In the *Edit Correlation Event Handler* pane, you can review the description of the handler as well as the correlation sequence and criteria.

FAZVM64		> ? 1 A admin					
<div> <div>Dashboard</div> <div>Device Manager</div> <div>FortiView</div> <div>Log View</div> <div>Fabric View</div> <div>Incidents & Events</div> <div>Event Monitor</div> <div>Handlers</div> <div>Incidents</div> <div>Threat Hunting</div> <div>Log Parser</div> <div>Outbreak Alerts</div> <div>Reports</div> <div>System Settings</div> </div>	Data Selectors		Edit Correlation Event Handler				
	+ Create						

Status	Name	Events	Correlation	Data Selector	Settings
<input type="checkbox"/>	Lateral Movement - Default Access to a Suspicious D...	1	FCT Vulnerability Detected AND Access t...		
<input type="checkbox"/>	Defense Evasion - Default Attack Event Detected Aft...		Malware Download Detected FOLLOWE...		
<input type="checkbox"/>	Defense Evasion - Default Communication to Botnet ...		Malware Download Detected FOLLOWE...		
<input type="checkbox"/>	CnC - Botnet CnC Communication Detected		Botnet Communication Detected AND M...		
<input type="checkbox"/>	Credential Access - Default Brute Force Account Logi...		Login Failed 5 Times NOT_FOLLOWED_...		
<input type="checkbox"/>	Credential Access - Default Brute Force Account Logi...		Login Failed 5 times NOT_FOLLOWED_B...		
<input type="checkbox"/>	Credential Access - Default Credentials Were Read A...		Special Privileges Assigned to New Logon...		
<input type="checkbox"/>	Exfiltration - Default Data Leak Detected After Risky ...		Risky App Detected FOLLOWED_BY[10...		
<input type="checkbox"/>	Exfiltration - Default Data Leak Detected After SSH C...		SSH Command Block for More Than 10 T...		
<input type="checkbox"/>	Lateral Movement - Default Data Leak Found On a D...		FCT Vulnerability Detected AND Data Le...		
<input type="checkbox"/>	Persistence - Default Firewall Service Deactivated Aft...		(Attempt to Disable Firewall for Many Ti...		
<input type="checkbox"/>	Privilege Escalation - Default Firewall Disabled After S...		Special Privileges Assigned to New Logon...		

Update to the Event Handler rule configuration - 7.4.2



This information is also available in the FortiAnalyzer 7.4 Administration Guide:

- [Creating a custom event handler](#)

When configuring rules for a basic event handler in the GUI, the configuration is now organized into four sections:

1. General: Set the rule status, name, and severity of the triggered event.

Add New Rule

Status ☒

Name

Event Severity

Choose Your Logs

Start by selecting the device and log type that you want to monitor for events.

Log Device Type

Log Type

Log Subtype

The system will categorize logs into smaller groups based on the chosen log fields.

Log Field

Refine Your Logs

2. **Choose Your Logs:** Select the device and log type that you want to monitor for events. Choose up to three log fields to categorize logs into smaller groups.

The screenshot shows the 'Add New Rule' dialog in FortiAnalyzer. The 'Choose Your Logs' section is highlighted with a red box. It includes the following fields:

- Status: ☒
- Name:
- Event Severity: Medium
- Log Device Type: FortiGate
- Log Type: Traffic Log (traffic)
- Log Subtype: Antivirus (virus)
- Log Field: Not in use (three instances)

Below the 'Choose Your Logs' section is the 'Refine Your Logs' section, which is currently empty.

3. **Refine Your Logs:** Once logs are grouped, you can further refine the data within each group by applying filters with other log fields. Logs that match the filters will be retained within each group.

The screenshot shows the 'Add New Rule' dialog in FortiAnalyzer. The 'Refine Your Logs' section is highlighted with a red box. It includes the following fields:

- Log Filters: All Filters (selected), Any One of the Filters
- Log Field: Destination Port (dstport)
- Match Criteria: Equal To
- Value: 514
- Action: X +
- AND Host Name (hostname)
- Match Criteria: Contains
- Value: facebook
- Action: X +
- Log Filter by Text: dstip==192.168.1.168

4. **Define Event Conditions:** Once you've organized and filtered the logs, set up criteria that enables the system to automatically initiate events when log records reoccur within each group.

Add New Rule

Log Filter by Text

Define Event Conditions

Once you've organized and filtered the logs, set up criteria that enable the system to automatically initiate events when log records reoccur within each group.

Trigger an event when:

- ☒ A group contains 1 or more log occurrences
- ☐ Within a group, the log field Click to select has 1 or more unique values
- ☐ The sum of Click to select is greater than or equal to 1

All logs were generated within 30 minutes

Advanced Settings >

OK Cancel

There is also a section for *Advanced Settings*, which is useful to specify the details for the triggered events. This includes the event message, event status, tags, and indicators.

Add New Rule

Advanced Settings

Event Type Override: Specify an event type, or leave blank to use default value

Event Message: Group by key-value pair(s) by default, or customize it (detail in info tip)

Event Status: Click to select

☒ Allow FortiAnalyzer to choose

Tags: Press enter to add tags

Log Field	Indicator Type	Count	Action
+			

Additional Info

- ☒ Use system default
- ☐ Use custom message

OK Cancel

Some option names and descriptions have also been updated from previous versions to provide more clarity.

To configure a rule for a basic event handler:



The following instructions are based on FortiAnalyzer version 7.4.2. For the latest version, see the option descriptions in the following topic from the FortiAnalyzer Administration Guide:

- [Creating a custom event handler](#)

1. Go to *Incidents & Events > Handlers > Basic Handlers*.
2. Click *Create New*.
The *Add New Basic Event Handler* pane displays.
3. In the *Rules* section for the event handler, click *Add New Rule*.
The *Add New Rule* pane displays.
4. Configure the following options:

Option	Description
Status	Enable or disable the rule. If the rule is disabled, it will not be used to generate events.
Name	Enter a name for the rule.
Event Severity	Select the severity from the dropdown list: <i>Critical</i> , <i>High</i> , <i>Medium</i> , or <i>Low</i> .
Choose Your Logs Start by selecting the device and log type that you want to monitor for events.	
Log Device Type	If you are in a Security Fabric ADOM, select the log device type from the dropdown list. If you are not in a Security Fabric ADOM, you cannot change the <i>Log Device Type</i> . The <i>Fabric</i> log device type can be used to generate alerts from SIEM logs when SIEM logs are available.
Log Type	Select the log type from the dropdown list. When <i>Devices</i> is set to <i>Local Device</i> , you cannot change the <i>Log Type</i> or <i>Log Subtype</i> .
Log Subtype	Select the category of event that this event handler monitors. The available options depend on the platform type. This option is only available when the <i>Log Type</i> has a subtype. For example, <i>Event Log</i> and <i>Traffic Log</i> have log subtypes which can be selected from the dropdown.
Log Field	Select the log fields for the system to categorize logs into smaller groups. For example, consider the scenario where the <i>Log Field</i> is set using <i>Source IP (srcip)</i> . When log entries are recorded with source IPs such as 192.168.1.1, 192.168.1.2, and 192.168.1.3, the system will categorize these logs into distinct groups: <ul style="list-style-type: none"> • Group 1: Logs with the source IP 192.168.1.1 • Group 2: Logs with the source IP 192.168.1.2 • Group 3: Logs with the source IP 192.168.1.3 This grouping mechanism allows analysis of log data based on the specified source IP addresses.
Refine Your Logs Once logs are grouped, you can refine the data within each group by applying filter with other log fields. Logs that match the filters will be retained within each group.	
Log Filters	Select <i>All Filters</i> or <i>Any One of the Filters</i> .

Option	Description
	<p>Configure the filter(s):</p> <ul style="list-style-type: none"> • Log Field: Select a log field from the dropdown. After the log device and log type are selected, the <i>Log Field</i> dropdown list will only include log fields that belong to the specified log type. For example, the <i>Botnet IP</i> log field is available when the <i>Log Type</i> is <i>DNS</i>, but not available when the <i>Log Type</i> is <i>Event Log</i>. • Match Criteria: Select an operator from the dropdown. The available options depends on the selected log field. Some log fields, such as <i>Source Port</i>, will provide a variety of operators in the dropdown list, such as <i>Equal To</i>, <i>Not Equal To</i>, <i>Greater Than or Equal To</i>, <i>Less Than or Equal To</i>, <i>Greater Than</i>, and <i>Less Than</i>. Other log fields, such as <i>Log Description</i>, will be limited to <i>Equal To</i> and <i>Not Equal To</i>. • Value: Select a value from the dropdown list or enter a value in the text box. The available options depends on the selected log field. If there is no dropdown list provided by FortiAnalyzer, you must manually enter a value to find in the raw log. If a dropdown list is provided, you can select a value from the list. For some log fields, such as <i>Level</i>, the dropdown list also allows you to enter a custom value. If there is no textbox to enter a custom value in the dropdown list, you must use the <i>Generic Text Filter</i> instead. <p>In the Action column, click plus (+) to insert a new filter below. You can insert multiple filters. To delete a filter, click the x next to the filter.</p>
Log Filter by Text	<p>Enter a generic text filter. See the FortiAnalyzer Administration Guide. For information on text format, hover the cursor over the help icon. The operator <i>~</i> means contains and <i>!~</i> means does not contain.</p>
<p>Define Event Conditions</p> <p>Once you've organized and filtered the logs, set up criteria that enable the system to automatically initiate events when log records reoccur within each group.</p>	
Trigger an event when:	<p>Select the radio button for one of the following options and configure the criteria:</p> <ul style="list-style-type: none"> • A group contains <i><integer></i> or more log occurrences • Within a group, the log field <i><log field></i> has <i><integer></i> or more unique values <ul style="list-style-type: none"> • Click the toggle icon to change to "[...] has fewer than <i><integer></i> unique values" • The sum of <i><measure></i> is greater than or equal to <i><integer></i> <p>Additionally, configure the following in relation to your selection:</p> <ul style="list-style-type: none"> • All logs were generated within <i><integer></i> minutes

5. Configure the Advanced Settings for the rule, if needed, and click *OK* to save the rule.
6. You can add more rules to the event handler, as needed. All rules for the basic event handler will have an OR relationship. To configure rules with different correlation criteria, configure a correlation event handler. For more information, see the [FortiAnalyzer Administration Guide](#).

7. Configure the options for the event handler, and click **OK**.

Dashboards

This section lists the new features added to FortiAnalyzer for dashboards:

- [SD-WAN Cloud Assisted Monitoring service widgets 7.4.1 on page 31](#)
- [Data leak prevention monitor in FortiView 7.4.1 on page 35](#)
- [FortiProxy central visibility 7.4.1 on page 38](#)
- [Compromised hosts improvements 7.4.2 on page 40](#)
- [Replay attacks in the Threat Map 7.4.2 on page 42](#)

SD-WAN Cloud Assisted Monitoring service widgets - 7.4.1

New widgets are introduced in FortiAnalyzer 7.4.1 for the SD-WAN Cloud Assisted Monitoring service on FortiOS.

Topology

This feature requires an SD-WAN connected to the internet to run speed tests on SD-WAN member interfaces. The FortiGate must use version 7.4.0 or higher, so SD-WAN Bandwidth Monitoring Result event logs can be sent from FortiGate.

To run speed tests from the FortiGate devices:

Enter the following command to download the speed test server list from FortiGate Cloud:

```
exec speed-test-server download
```

Enter the following command to list all available servers:

```
exec speed-test-server list
```

Enter the following command to measure bandwidth on an interface to a test server:

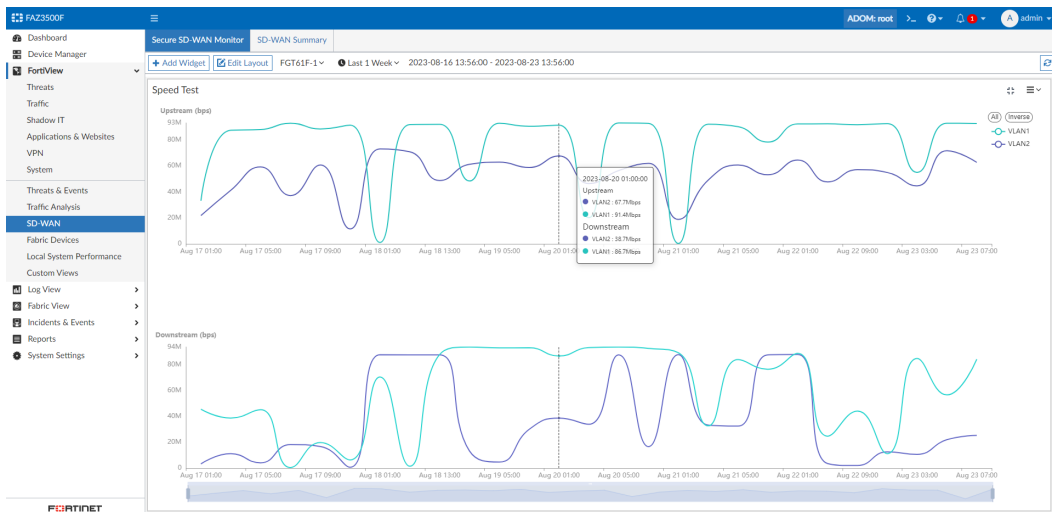
```
exec speed-test {auto | <outgoing interface name>} <server>
```

For more information, see the [FortiGate / FortiOS Administration Guide](#).

New SD-WAN Cloud Assisted Monitoring widgets and charts in FortiAnalyzer:

Speed Test is a new widget added to the *Secure SD-WAN Monitor* dashboard. This widget displays the download and upload speeds for all tests run on SD-WAN interfaces through the specified time period. You can select to display as a combined line chart or as a table chart.

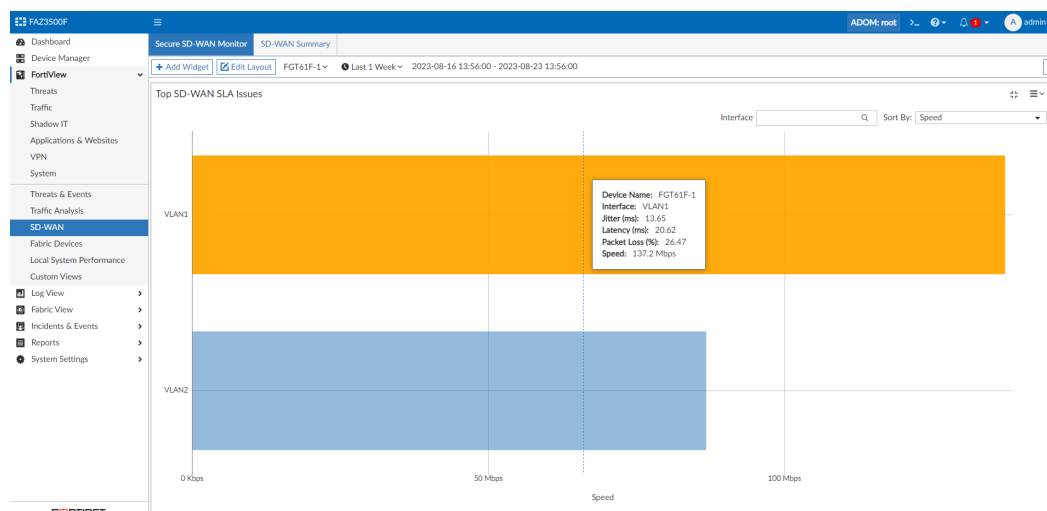
The following is an example of the line chart for *Speed Test*:



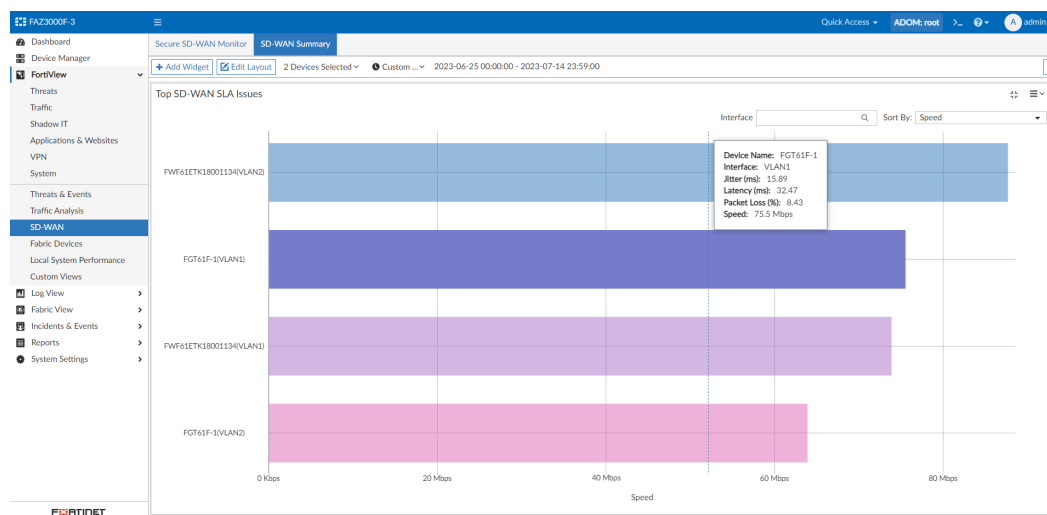
The following is an example of the table for *Speed Test*:

Date/Time	Interface	Downstream	Upstream	Server
08-23 08:57	VLAN2	62568 kbps	69957 kbps	
08-23 07:39	VLAN1	84221 kbps	92667 kbps	
08-23 06:47	VLAN2	19839 kbps	3603 kbps	
08-23 05:38	VLAN1	56582 kbps	92828 kbps	
08-23 04:36	VLAN2	11606 kbps	62094 kbps	
08-23 03:38	VLAN1	84837 kbps	55046 kbps	
08-23 01:38	VLAN1	11175 kbps	92521 kbps	
08-23 00:04	VLAN2	25319 kbps	62746 kbps	
08-22 09:37	VLAN1	44085 kbps	91671 kbps	
08-22 08:53	VLAN2	21960 kbps	71761 kbps	
08-22 06:43	VLAN2	10645 kbps	44711 kbps	
08-22 05:37	VLAN1	24679 kbps	92362 kbps	
08-22 04:33	VLAN2	12570 kbps	54966 kbps	
08-22 02:23	VLAN2	1985 kbps	57179 kbps	
08-22 01:37	VLAN1	88679 kbps	92259 kbps	
08-22 00:13	VLAN2	3475 kbps	47733 kbps	
08-21 07:36	VLAN1	76379 kbps	78314 kbps	
08-21 06:52	VLAN2	87818 kbps	64503 kbps	
08-21 05:36	VLAN1	83905 kbps	90150 kbps	

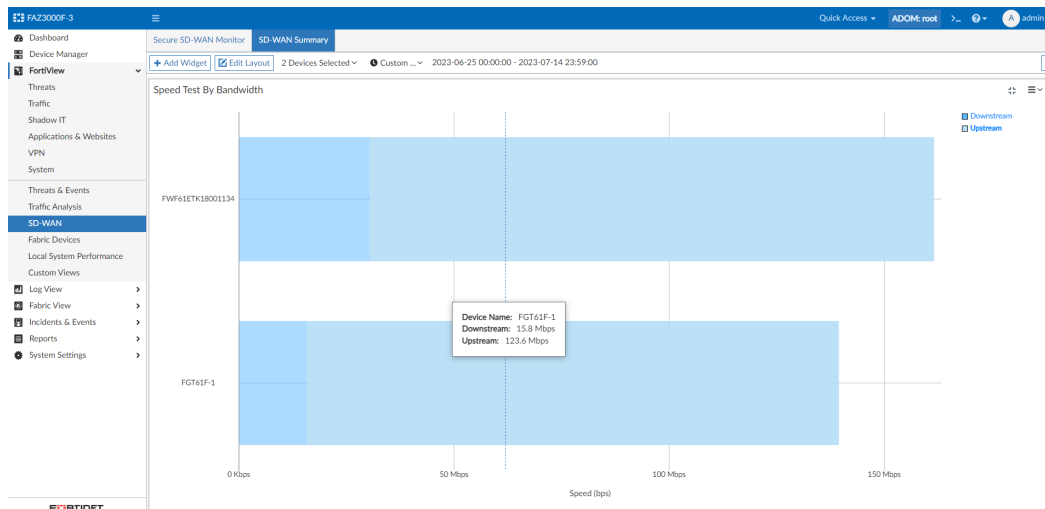
Sort By Speed is a new option added to the *Top SD-WAN SLA Issues* widget in the *Secure SD-WAN Monitor* dashboard. This option displays the peak speed run on SD-WAN interfaces through specified time period.



The new *Sort By Speed* option is also added to the *Top SD-WAN SLA Issues* widget in the *SD-WAN Summary* dashboard. This option displays the peak speed run on SD-WAN interfaces through specified time period for selected devices.



Speed Test By Bandwidth is a new widget added to the *SD-WAN Summary* dashboard. This widget displays a bar chart of the combined download and upload speeds for all SD-WAN interfaces on each device.



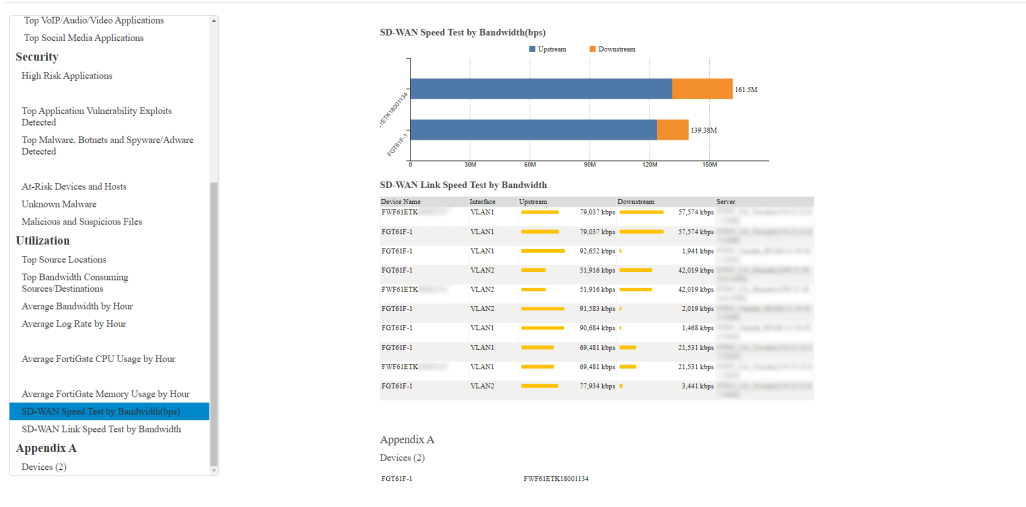
Speed Test Summary is a new widget added to the **SD-WAN Summary** dashboard. This widget displays a table of the download and upload speeds for all tests run on SD-WAN interfaces through specified time period on selected devices.

The screenshot shows the FortiAnalyzer interface with the 'Secure SD-WAN Monitor' tab selected. The 'SD-WAN Summary' dashboard displays a 'Speed Test Summary' table. The table has the following columns: Device Name, Interface, Downstream, Upstream, and Server. The table contains 20 rows of data, showing test results for various devices and interfaces.

Device Name	Interface	Downstream	Upstream	Server
FW61ETK18001134	VLAN1	57.6 Mbps	79 Mbps	FTNT_CA_Toronto(154.52.23.67.5200)
FGT61F-1	VLAN1	57.6 Mbps	79 Mbps	FTNT_CA_Toronto(154.52.23.67.5200)
FGT61F-1	VLAN1	1.9 Mbps	92.7 Mbps	FTNT_Canada_BC(66.35.19.205.5201)
FGT61F-1	VLAN2	42 Mbps	51.9 Mbps	FTNT_CA_Burnaby(209.52.38.114.5200)
FW61ETK18001134	VLAN2	42 Mbps	51.9 Mbps	FTNT_CA_Burnaby(209.52.38.114.5200)
FGT61F-1	VLAN2	2 Mbps	91.6 Mbps	FTNT_Canada_BC(66.35.19.205.5200)
FGT61F-1	VLAN1	1.5 Mbps	90.7 Mbps	FTNT_Canada_BC(66.35.19.205.5203)
FW61ETK18001134	VLAN1	21.5 Mbps	69.5 Mbps	FTNT_CA_Toronto(154.52.23.67.5202)
FGT61F-1	VLAN1	21.5 Mbps	69.5 Mbps	FTNT_CA_Toronto(154.52.23.67.5202)
FGT61F-1	VLAN2	3.4 Mbps	77.9 Mbps	FTNT_CA_Toronto(154.52.23.67.5202)
FW61ETK18001134	VLAN2	3.4 Mbps	77.9 Mbps	FTNT_CA_Toronto(154.52.23.67.5202)
FGT61F-1	VLAN1	9.4 Mbps	68.5 Mbps	FTNT_CA_Toronto(154.52.23.67.5203)
FW61ETK18001134	VLAN1	9.4 Mbps	68.5 Mbps	FTNT_CA_Toronto(154.52.23.67.5203)
FGT61F-1	VLAN1	11.6 Mbps	65.4 Mbps	FTNT_Canada_Ontario(154.52.23.67.5202)
FGT61F-1	VLAN1	9.8 Mbps	66.9 Mbps	FTNT_Canada_Ontario(154.52.23.67.5203)
FW61ETK18001134	VLAN1	10.2 Mbps	64.8 Mbps	FTNT_Canada_Ontario(154.52.23.67.5202)
FW61ETK18001134	VLAN1	6.2 Mbps	66.9 Mbps	FTNT_Canada_Ontario(154.52.23.67.5203)
FGT61F-1	VLAN1	5.7 Mbps	67.4 Mbps	FTNT_Canada_Ontario(154.52.23.67.5201)
FW61ETK18001134	VLAN1	2.4 Mbps	69.4 Mbps	FTNT_CA_Toronto(154.52.23.67.5201)

An **SD-WAN Speed Test By Bandwidth(bps)** bar chart is added to the **Secure SD-WAN Assessment Report**. This chart displays the combined download and upload speeds for all SD-WAN interfaces on each device.

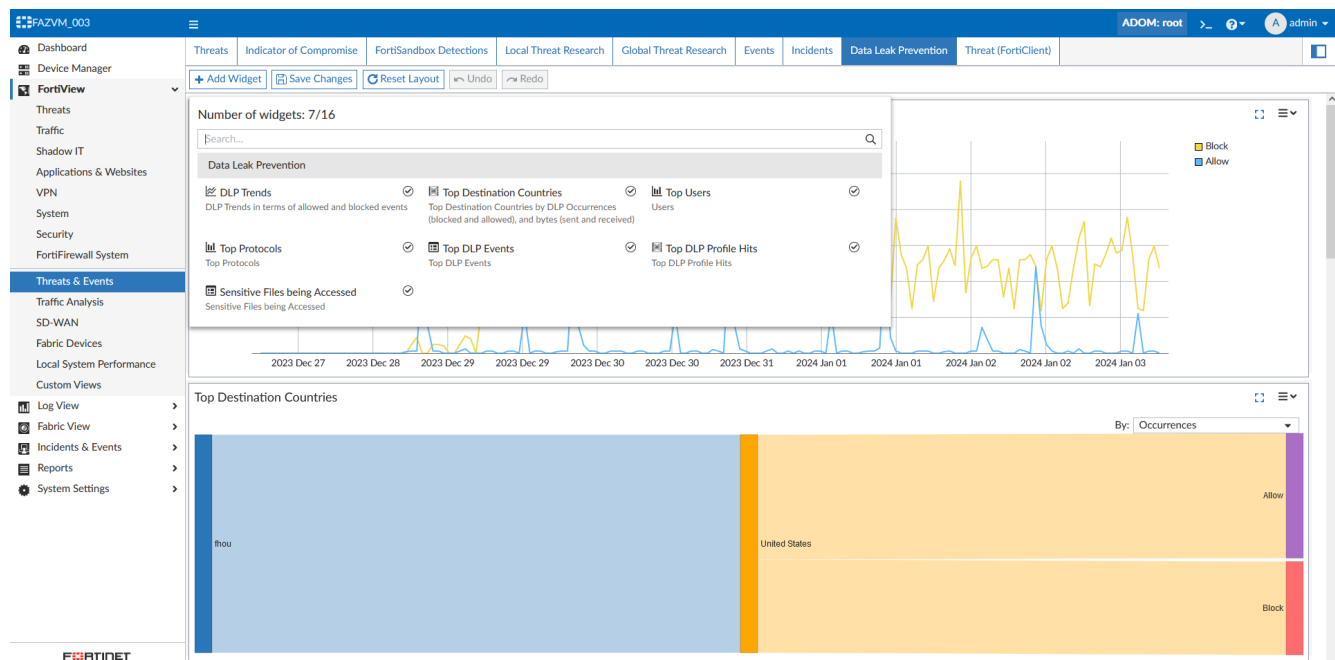
A **SD-WAN Link Speed Test by Bandwidth** table is also added to the **Secure SD-WAN Assessment Report**. This table displays the download and upload speeds for all tests run on SD-WAN interfaces through the specified time period on selected devices



Data leak prevention monitor in FortiView - 7.4.1

A data leak prevention (DLP) monitor with seven new widgets has been added to FortiView in FortiAnalyzer.

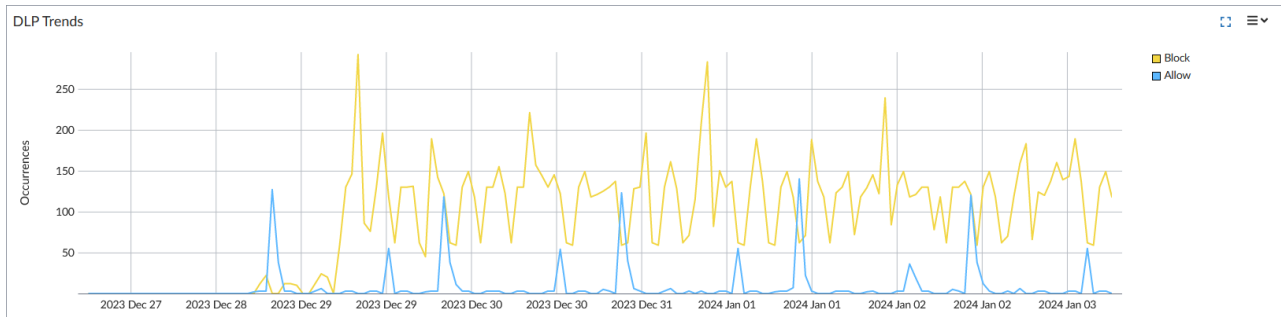
To access this monitor in the GUI, go to *FortiView > Threats & Events > Data Leak Prevention*. Widgets can be added, removed, or re-sized according to your needs.



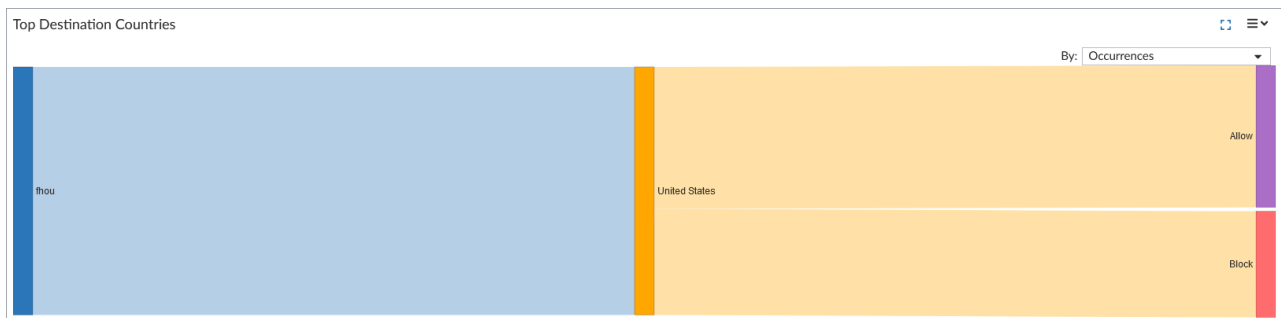
The following widgets are available:

- DLP Trends:** Line chart displaying the number of DLP occurrences over a period of time by *Allow* or *Block* security actions.

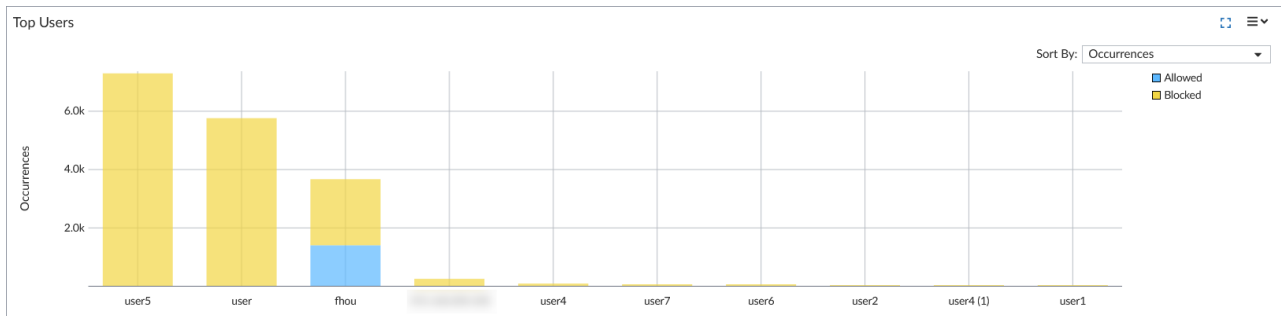
Mouse over an area of the chart to display values at that time in a tooltip.



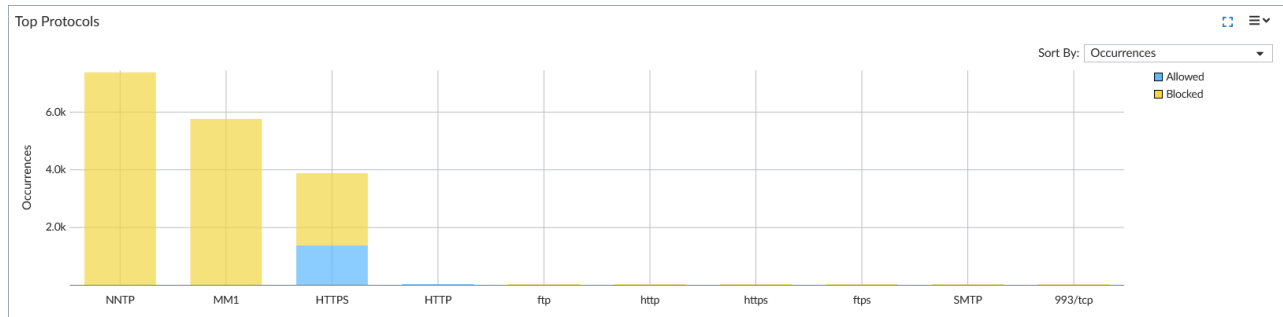
- **Top Destination Countries:** Sankey graph displaying user, destination country, and security action. You can change the graph to display the information by *Occurrence* or *Bytes*. Mouse over a section of the graph to display the *From*, *To*, *Session*, or *Bytes* values in a tooltip. Click a destination country to drill down to the corresponding *Log View*.



- **Top Users:** Bar graph displaying the top users for DLP. The graph can be sorted by *Occurrences* or *Bytes*. Mouse over a user to show the *User (Source/IP)*, *Occurrence*, and *Bytes* in a tooltip. The number of top users can be set in the widget's settings menu. Click a user to drill down to the corresponding *Log View*.



- **Top Protocols:** Bar graph displaying the top protocols for DLP. The view can be sorted by *Occurrences* or *Bytes*. Mouse over a protocol to display *Protocol Name*, *Occurrence*, and *Bytes* in a tooltip. The number of top protocols can be set in widget's settings menu. Click a protocol to drill down to the corresponding *Log View*.



- **Top DLP Events:** Table displaying DLP events sorted by *Severity* by default.

The table can be sorted by other available columns: *Application/Hostname*, *Source (User/IP)*, *File Name*, *Sensitivity (MIP level)*, *Protocol*, or *Detection Name*. Click a row to drill down to the corresponding *Log View*. Any of the columns can be set as a filter for the table. Number of top DLP events can be set in widget's settings menu. The results can also be exported to PDF file or Report Chart.

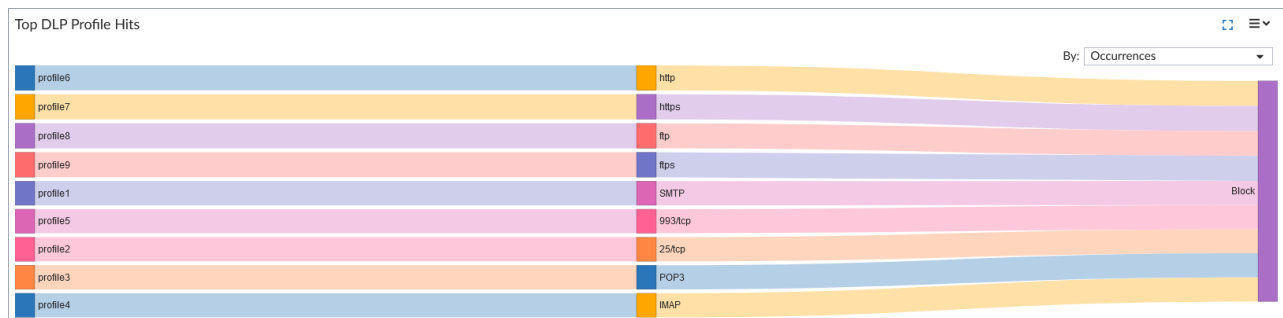
Top DLP Events

Severity	Application/Hostname	Source (User/IP)	File Name	Bytes	Sensitivity (MIP level)	Protocol	Detection Name	Occurrences
Critical	host1	user1()	file1_test	2.7 MB	Unclassified	SMTP	profile1	26
Critical	host2	user2()	file2_test	278.9 KB	Unclassified	25/tcp	profile2	26
Critical	host6	user6()	file6_test	49.5 KB	Unclassified	http	profile6	27
Critical	host8	user6()	file8_test	49.5 KB	Unclassified	ftp	profile8	27
High	host3	user3()	file3_test	27.2 MB	Unclassified	POP3	profile3	26
Low	host4	user4()	file4_test	276.1 KB	Unclassified	IMAP	profile4	26
Info	host	user()		-	Unclassified	MM1		5,749

0% 12

- **Top DLP Profile Hits:** Sankey graph displaying the FortiOS DLP profile name or FortiCASB filter name that triggered the DLP event, the protocols, and the security action taken.

The graph can be sorted by *Occurrences* or *Bytes*. Mouse over a section to display the *Name*, *From*, *To*, *Session*, or *Bytes* in a tooltip according to the graph location. Click a profile to drill down to the corresponding *Log View*.



- **Sensitive Files being Accessed:** Table displaying file names and attributes set in DLP profiles.

The table is sorted by *Severity* by default, but can also be sorted by *File Name* or *Application*. Click a row to drill down to the corresponding *Log View*. Any of the columns can be set as a filter for the table. The number of results can be set in widget's settings menu. The results can also be exported to PDF file or Report Chart.

Sensitive Files being Accessed

File Name	Severity	Application	Occurrences
file1_test	Critical	host1	26
file2_test	Critical	host2	26
file6_test	Critical	host6	27
file8_test	Critical	host8	27
file3_test	High	host3	26
file4_test	Low	host4	26
file5_test	Info	host5	26

0% 9

FortiProxy central visibility - 7.4.1

FortiView provides central visibility for FortiProxy deployments with the addition of the following widgets under *FortiView* > *Traffic Analysis* > *FortiProxy*.

Widgets can be added, removed, or re-sized according to your needs. You can also select the FortiProxy devices and time range to filter all widgets in the monitor.

The screenshot shows the FortiView interface with the FortiProxy widget selected. The widget configuration panel displays the following options:

- ☒ Top Proxy Sources
- ☒ Top Proxy Destinations
- ☒ Top Website Domains
- ☒ Top Threats Destinations
- ☒ Top Threats
- ☒ Top Applications
- ☒ Top DLP Events

The main display area shows the 'Top Proxy Destinations' widget with the following data:

Destination IP	Sessions	Bytes (Sent/Received)
1.829.166	122.1 MB/193.9 MB	
101.849	6.0 MB/39.1 MB	
20.604	2.8 MB/5.7 GB	
8.857	571.1 KB/675.2 KB	
7.364	10.9 MB/12.5 MB	
7.007	875.9 KB/10.9 MB	
6.007	376.0 KB/366.6 KB	

Within each widget, you can set filters according to the available columns. You can also sort tables by any available column. From the widget's settings menu, you can set the refresh interval and, where appropriate, set the number of top results to show in the table. Click a row within a table to drill down to the corresponding *Log View*.

The following widgets are available:

- Top Proxy Sources:** Table displaying a list of FortiProxy Sources, grouped by User/IP and sorted by number of Sessions.

The following columns are available: Source, Source Interface, number of Sessions, and Bytes.

Top Proxy Sources

Source (User/IP)	Source Interface	Sessions	Bytes (Sent/Received)
	port1	1,909,814	132.9 MB/464.5 MB
	port1	176,622	59.4 MB/5.9 GB
	port2	9	5.1 KB/22.7 KB

3

- **Top Proxy Destinations:** Table displaying a list of FortiProxy Destinations, grouped by Destination IP and sorted by number of Sessions.

The following columns are available: Destination IP, number of Sessions, and Bytes.

Top Proxy Destinations

Destination IP	Sessions	Bytes (Sent/Received)
	1,829,166	122.1 MB/193.9 MB
	101,849	6.0 MB/39.1 MB
	20,604	2.8 MB/5.7 GB
	8,857	571.1 KB/675.2 KB
	7,364	10.9 MB/12.5 MB
	7,007	875.9 KB/10.9 MB
	6,007	376.0 KB/366.6 KB

0% 100

- **Top Website Domains:** Table displaying a list of Website Domains accessed by FortiProxy devices, grouped by Domains and sorted by number of Sessions.

The following columns are available: Domain, Category, number of Sessions, and Bytes.

Top Website Domains

Domain	Category	Sessions	Bytes (Sent/Received)
win10-1		14,746	1008.0 KB/1.5 MB
win10-3		14,738	1007.5 KB/1.5 MB
win10-2		14,734	1007.2 KB/1.5 MB
cisco.com	Information Technology	14,065	20.9 MB/23.1 MB
		6,074	973.4 KB/35.1 MB
yahoo.com	Newsgroups and Message Boards, Search Engines and Portals	1,889	307.2 KB/3.9 MB
cl63amgstart.ru	Malicious Websites	1,750	1.5 MB/0.0 KB

0% 100

- **Top Threats Destinations:** Table displaying a list of threat Sources and Destinations logged by FortiProxy devices sorted by Threat Level.

The following columns are available: Source, Destination IP, Threat Score, Threat Level, and number of Incidents.

Top Threats Destinations

Source (User/IP)	Destination IP	Threat Score	Threat Level	Incidents
		1,333,850	Critical	26,677
		1,254,250	Critical	25,085
		1,390,550	Critical	27,811
		1,189,050	Critical	23,781
		1,254,100	Critical	25,082
		1,189,700	Critical	23,794
		1,220,600	Critical	24,412

0% 100

- **Top Threats:** Table displaying a list of Threats logged by FortiProxy devices sorted by Threat Level.

The following columns are available: Threat name, Threat Type, Threat Score, Threat Level, and number of Incidents.

Top Threats

Threat	Threat Type	Threat Score	Threat Level	Incidents
EICAR_TEST_FILE	Malware	2,579,600	Critical	51,592
Adware/TEST_FILE	Malware	1,333,850	Critical	26,677
NestedArchive.zip	Malware	1,264,450	Critical	25,289
CorruptedArchive.zip	Malware	1,254,250	Critical	25,085
EncryptedArchive.rar	Malware	1,254,100	Critical	25,082
Multipart.part1.rar	Malware	1,220,600	Critical	24,412
MailbombArchive.rar	Malware	1,189,700	Critical	23,794

0% 31

- **Top Applications:** Table displaying a list of Applications used and logged by FortiProxy devices sorted by Risk Level.

The following columns are available: Application name, Category, Risk Level, and number of Sessions.

Top Applications

Application	Category	Risk Level	Sessions
KProxy	Proxy	Critical	918
Facebook	Social.Media	Medium	824
HTTP.BROWSER	Web.Client	Medium	66,245
HTTPS.BROWSER	Web.Client	Medium	14,580
CNN	General.Interest	Elevated	918
DNS	Not.Scanned	Elevated	1,947,194
Yahoo.Services	General.Interest	Elevated	930

0% 100

- **Top DLP Events:** Table displaying a list of Data Loss Prevention (DLP) events logged by FortiProxy devices sorted by Severity.

The following columns are available: Severity, Hostname, Source, Service, number of Incidents.

Top DLP Events

Severity	Hostname	Source (User/IP)	Service	Incidents
medium			HTTP	2

1

Compromised hosts improvements - 7.4.2



This information is also available in the FortiAnalyzer 7.4 Administration Guide:

- [Working with IOC information](#)

The FortiAnalyzer *Compromised Hosts* dashboard has been renamed to *Indicator of Compromise*. To access the dashboard, go to *FortiView > Threats > Indicator of Compromise*.

The table view in *Indicator of Compromise* includes two new columns:

- Log Types
- Security Actions

The screenshot shows the FortiAnalyzer Enterprise FortiView interface. The left sidebar contains navigation options: Dashboard, Device Manager, FortiView (selected), Threats, Traffic, Shadow IT, Applications & Websites, VPN, System, Threats & Events, Traffic Analysis, SD-WAN, Fabric Devices, Local System Performance, Custom Views, Log View, Fabric View, Incidents & Events, Reports, and System Settings. The main panel displays the 'Indicator of Compromise' table with 40 entries. The table columns are: Source (User/IP), Last Detected, Host Name, OS, Log Types, Security Actions, Verdict, # of Threats, Acknowledge, and Device Name. The table shows various infected hosts and their associated threats.

Source (User/IP)	Last Detected	Host Name	OS	Log Types	Security Actions	Verdict	# of Threats	Acknowledge	Device Name
10.200.1.20(10.200.1.20)	2024-01-10 14:49	10.200.1.20		traffic	timeout close	Infected	1	ACK	Enterprise_Core
10.200.1.20	2024-01-10 14:49	LAN-FSW-GUEST	Windows	traffic	timeout close	Infected	1	ACK	Enterprise_Second
10.200.1.19(10.200.1.19)	2024-01-10 14:49	10.200.1.19		traffic	timeout close	Infected	1	ACK	Enterprise_Core
10.200.1.19	2024-01-10 14:49	10.200.1.19	Unknown	traffic	timeout close	Infected	1	ACK	Enterprise_Second
10.200.1.18	2024-01-10 14:49	10.200.1.18	Unknown	traffic	timeout close	Infected	1	ACK	Enterprise_Second
10.200.1.18(10.200.1.18)	2024-01-10 14:49	10.200.1.18		traffic	timeout close	Infected	1	ACK	Enterprise_Core
10.200.1.17	2024-01-10 14:48	10.200.1.17	Windows	traffic	timeout close	Infected	1	ACK	Enterprise_Second
10.200.1.17(10.200.1.17)	2024-01-10 14:48	10.200.1.17		traffic	timeout close	Infected	1	ACK	Enterprise_Core
10.200.1.16	2024-01-10 14:48	LAN-FSW-GUEST	Windows	traffic	timeout close	Infected	1	ACK	Enterprise_Second
10.200.1.16(10.200.1.16)	2024-01-10 14:48	10.200.1.16		traffic	timeout close	Infected	1	ACK	Enterprise_Core
10.200.1.15	2024-01-10 14:48	LAN-FSW-GUEST	Unknown	traffic	timeout close	Infected	1	ACK	Enterprise_Second
10.200.1.15(10.200.1.15)	2024-01-10 14:48	10.200.1.15		traffic	timeout close	Infected	1	ACK	Enterprise_Core

You can now filter the table by log types and firewall security actions.

You can also create a custom view for the *Indicator of Compromise* table directly from the dashboard. After setting your filters in *FortiView > Threats > Indicator of Compromise*, click *Create Custom View*. In the *New Custom View* pane, configure the following options and click *OK*.

Name	Enter a name for the custom view.
Device	Displays the devices to be used for the custom view.
Time Period	Displays the time period to be used for the custom view.
Privacy	Toggle to <i>Public</i> or <i>Private</i> .

The screenshot shows the FortiAnalyzer Enterprise FortiView interface with the 'Indicator of Compromise' table. The table has filters applied: 'Log Type= traffic' and 'Security Action= close'. The 'New Custom View' dialog is open, showing the following configuration:

- Name: (empty text box)
- Device: All_Device
- Time Period: Today
- Privacy: Public (selected)

The dialog also includes the text 'Others can see this Custom View' and buttons for 'OK' and 'Cancel'.

To open your custom view, go to *FortiView > Custom View > [Name of the Indicator of Compromise custom view]*. The dashboard displays the filters you had set prior to creating the custom view.

Source (User/IP)	Last Detected	Host Name	OS	Log Types	Security Actions	Verdict	# of Threats	Acknowledge	Device Name
10.200.1.11	2024-01-10 15:09	10.200.1.11	Unknown	traffic	timeout close	Infected	1	ACK	Enterprise_Second
10.200.1.11(10.200.1.11)	2024-01-10 15:09	10.200.1.11		traffic	timeout close	Infected	1	ACK	Enterprise_Core
10.200.1.10(10.200.1.10)	2024-01-10 15:09	10.200.1.10		traffic	timeout close	Infected	1	ACK	Enterprise_Core
10.200.1.10	2024-01-10 15:09	LAN-FSW-GUEST	Unknown	traffic	timeout close	Infected	1	ACK	Enterprise_Second
10.200.1.9(10.200.1.9)	2024-01-10 15:09	10.200.1.9		traffic	timeout close	Infected	1	ACK	Enterprise_Core
10.200.1.9	2024-01-10 15:09	10.200.1.9	Windows	traffic	timeout close	Infected	1	ACK	Enterprise_Second
10.200.1.8(10.200.1.8)	2024-01-10 15:09	10.200.1.8		traffic	timeout close	Infected	1	ACK	Enterprise_Core
10.200.1.8	2024-01-10 15:09	LAN-FSW-GUEST	Unknown	traffic	timeout close	Infected	1	ACK	Enterprise_Second
10.200.1.7	2024-01-10 15:08	LAN-FSW-GUEST	Tizen	traffic	timeout close	Infected	1	ACK	Enterprise_Second
10.200.1.7(10.200.1.7)	2024-01-10 15:08	10.200.1.7		traffic	timeout close	Infected	1	ACK	Enterprise_Core
10.200.1.6(10.200.1.6)	2024-01-10 15:08	10.200.1.6		traffic	timeout close	Infected	1	ACK	Enterprise_Core
10.200.1.6	2024-01-10 15:08	LAN-FSW-GUEST	Unknown	traffic	timeout close	Infected	1	ACK	Enterprise_Second

Replay attacks in the Threat Map - 7.4.2



This information is also available in the FortiAnalyzer 7.4 Administration Guide:

- [Viewing FortiView dashboards](#)

In *FortiView > Threats > Threat Map*, you can now replay threats from historical UTM logs.

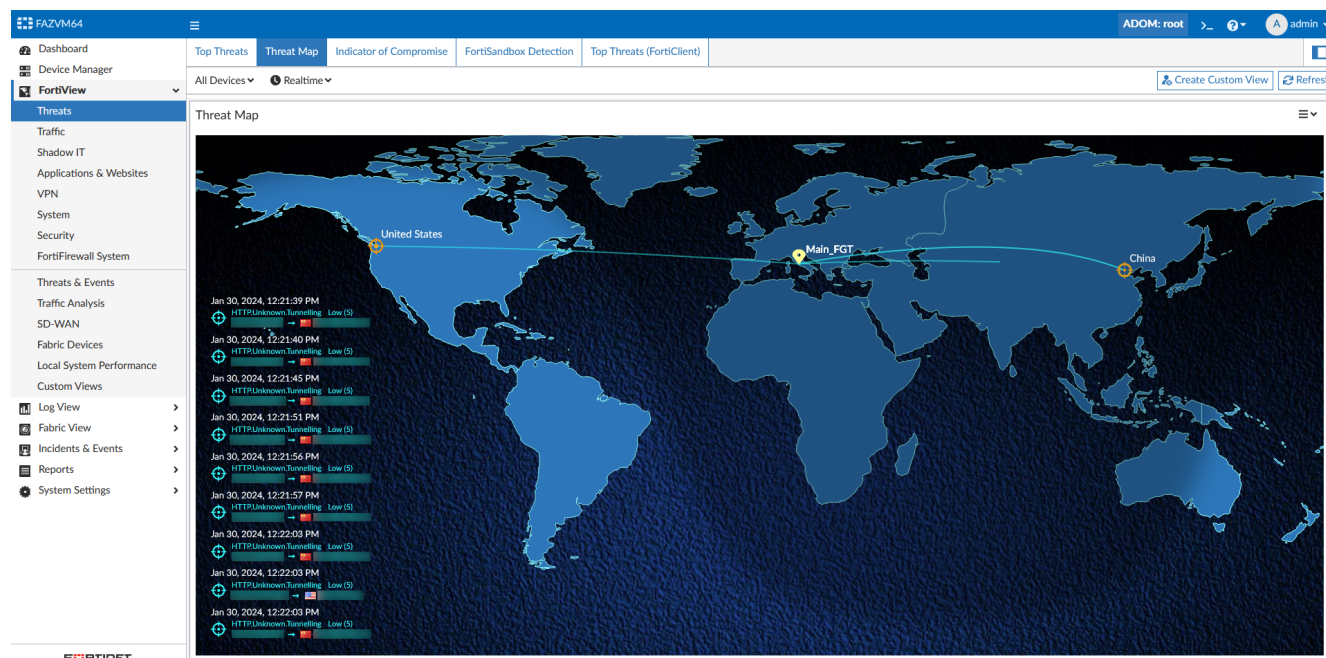
The following options are available in the toolbar and map view for the *Threat Map*:

Option	Description
Timeframe	<p>Select <i>Realtime</i> to display threats in the map as soon as they are received by FortiAnalyzer.</p> <p>Alternatively, select a timeframe to display historical UTM logs fetched from the database and replay them in order of occurrence.</p>
Devices	Select devices to filter the threats, if needed.
Pause/Play	<p>This option only available when the timeframe is not <i>Realtime</i>.</p> <p>Click to pause or play the threats replay in the map. The ring around the play/pause button indicates the progress of the replay.</p>
Replay rate	<p>This option only available when the timeframe is not <i>Realtime</i>.</p> <p>Use the plus (+) and minus (-) buttons to increase or decrease the replay speed. The fastest replay speed is 7 and the slowest is 1. The default is 3.</p>

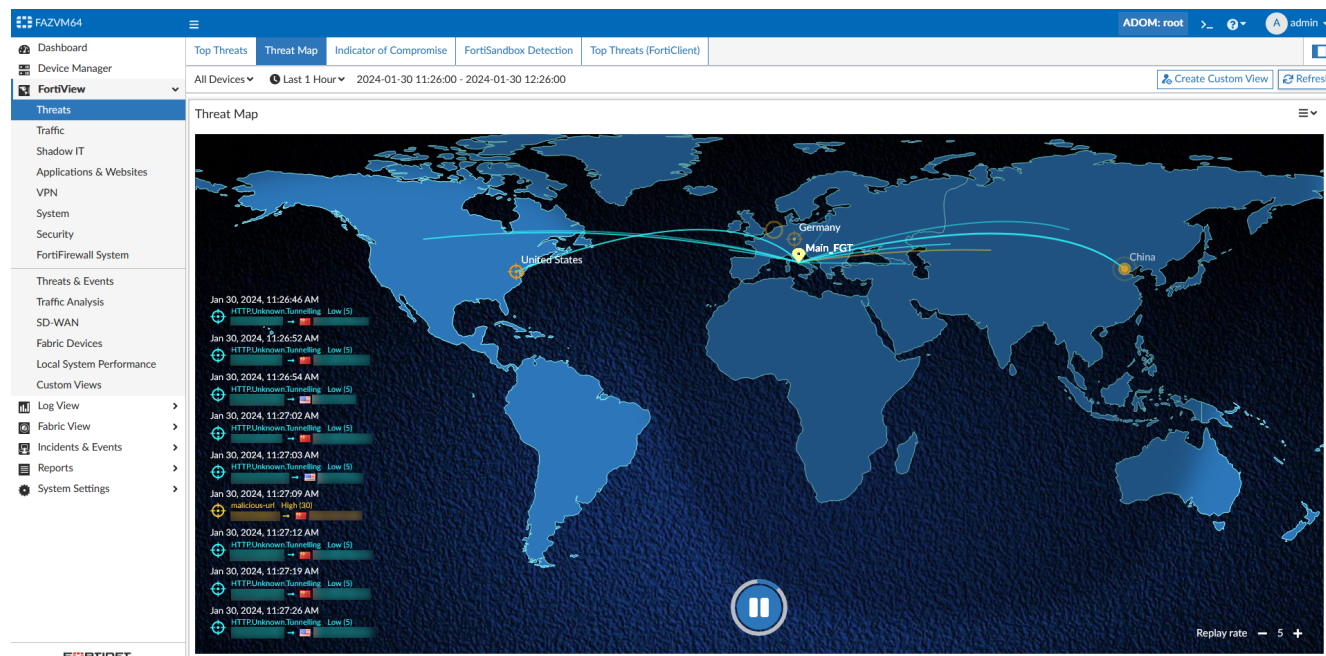
The list of threats that overlays the map view displays the following data:

- Date and time of threat
- Threat name
- Threat level
- Threat Source and Destination IPs, threat direction, and country flag if it is available

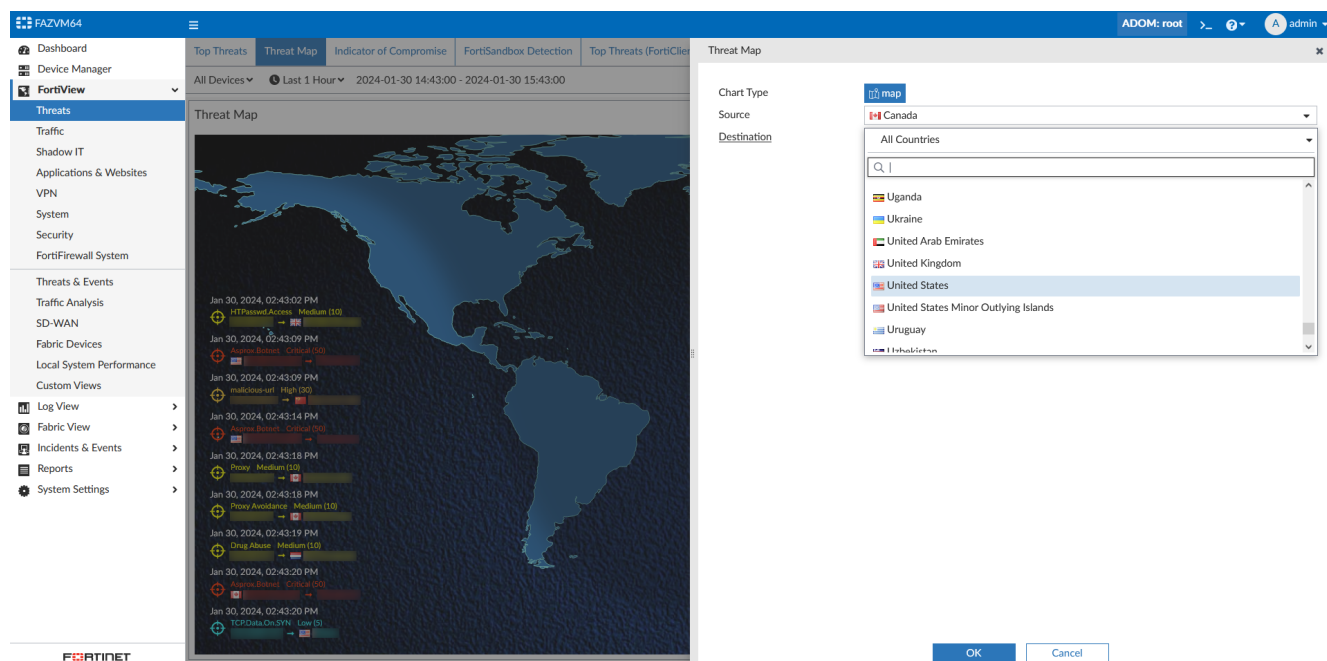
Below is an example of the *Threat Map* displaying threats in *Realtime*:



Below is an example of the *Threat Map* displaying a replay of threats from the last hour:



From the settings menu for the *Threat Map*, you can select the Source and/or Destination country of the threat. For example, see below.



Asset and Identity

This section lists the new features added to FortiAnalyzer for asset and identity:

- New charts in the Asset Identity Center on page 44

New charts in the Asset Identity Center

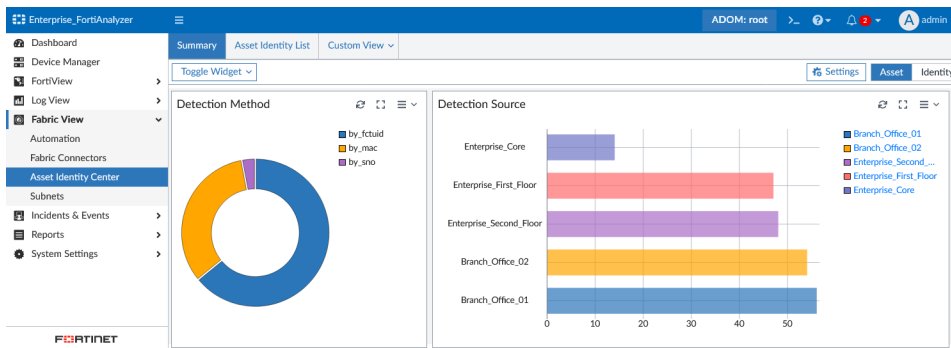


This information is also available in the FortiAnalyzer 7.4 Administration Guide:

- Asset Summary
- Identity Summary

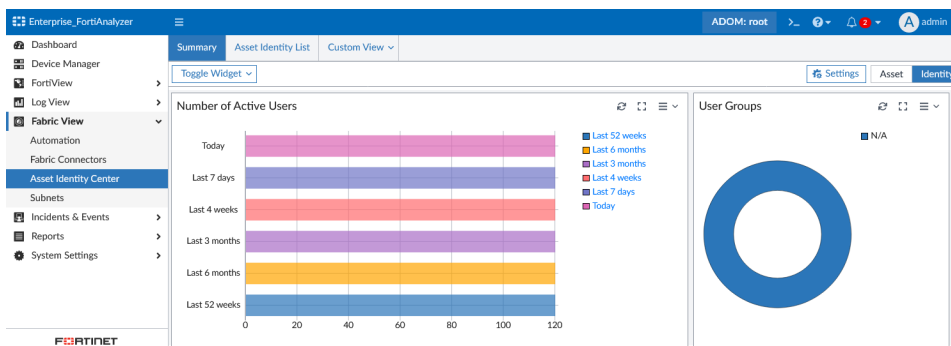
The new *Asset Identity Center* pane combines the previous *Asset Center* and *Identity Center* panes. There are new and updated widgets in the *Asset Identity Center*, which can be used for analysis of endpoints and end users.

Go to *Fabric View > Asset Identity Center > Summary*. By default, the pane displays the *Asset* dashboard. You can click *Identity* to display the *Identity* dashboard. From the *Toggle Widgets* dropdown, select which widgets should display on the dashboard. You can filter all widgets on the dashboard from *Settings*.



The *Asset* dashboard includes the following widgets:

Detection Method	Displays endpoint detections by method.
Detection Source	Displays a breakdown of the asset center data sources.
Identification/Unidentified Asset	Displays the number of detected endpoint assets that are identified and unidentified.
Hardware/OS Distribution	Displays endpoint hardware operating system distribution.
Discovery Timeline	Displays an asset discovery timeline.
Identified Active Asset	Displays identified asset visibility over the past 24 hours to 52 weeks.
Assets By Location	Displays identified assets by location.
Identified Activity Timeline	Displays a first seen, last update, and last seen identified asset activity timeline.
Changes Timeline	Displays an asset changes timeline.
Unidentified Active Asset	Displays unidentified asset visibility over the past 24 hours to 52 weeks.
Unidentified Activity Timeline	Displays a first seen, last update, and last seen unidentified asset activity timeline.



The *Identity* dashboard includes the following widgets:

Top Users	Displays asset user data.
Number of Active Users	Displays user visibility data over the past 24 hours to 52 weeks.
User Groups	Displays user groups.

User's Location	Displays user numbers by location.
User's Manager	Displays user numbers by manager.
Discovery Timeline	Displays the user discovery timeline.
Activity Timeline	Displays the user activity timeline.
Endpoint Tag Distribution	Displays the distribution of endpoint tags.

Others

This section lists the new features added to FortiAnalyzer for other topics related to security operations:

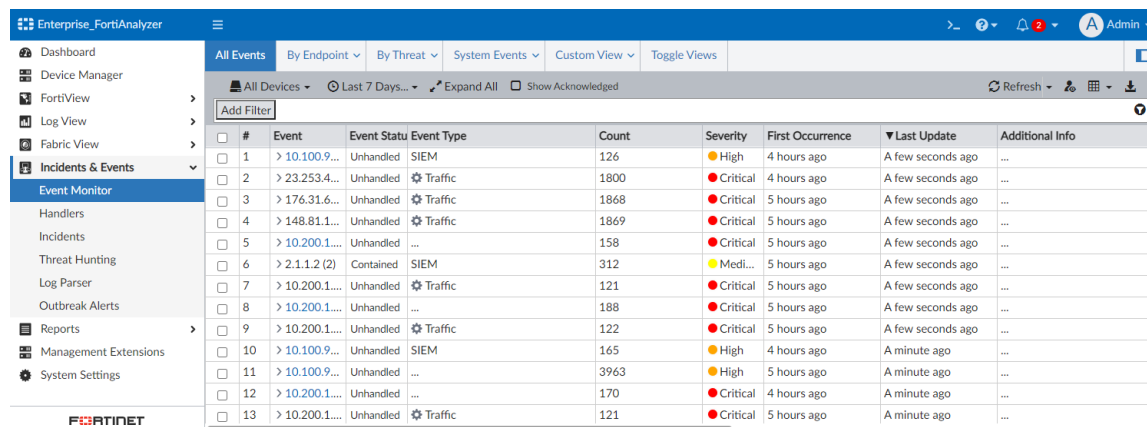
- [FortiSoC GUI reorganization on page 46](#)
- [Notifications for new Outbreak Alerts 7.4.1 on page 49](#)
- [MITRE ATT&CK matrices for Enterprise and ICS 7.4.1 on page 51](#)
- [Deliver reports, event handlers, and SIEM rules as FortiGuard packages 7.4.2 on page 62](#)
- [MITRE information included in outbreak detection 7.4.2 on page 66](#)

FortiSoC GUI reorganization

The *FortiSoC* features have been organized in the following areas of the GUI:

- *Incidents & Events*
- *FortiView*
- *Fabric View*

To create and manage events, go to *Incidents & Events*.



#	Event	Event Status	Event Type	Count	Severity	First Occurrence	Last Update	Additional Info
1	> 10.100.9...	Unhandled	SIEM	126	High	4 hours ago	A few seconds ago	...
2	> 23.253.4...	Unhandled	Traffic	1800	Critical	4 hours ago	A few seconds ago	...
3	> 176.31.6...	Unhandled	Traffic	1868	Critical	5 hours ago	A few seconds ago	...
4	> 148.81.1...	Unhandled	Traffic	1869	Critical	5 hours ago	A few seconds ago	...
5	> 10.200.1...	Unhandled	...	158	Critical	5 hours ago	A few seconds ago	...
6	> 2.1.1.2 (2)	Contained	SIEM	312	Medium	5 hours ago	A few seconds ago	...
7	> 10.200.1...	Unhandled	Traffic	121	Critical	5 hours ago	A few seconds ago	...
8	> 10.200.1...	Unhandled	...	188	Critical	5 hours ago	A few seconds ago	...
9	> 10.200.1...	Unhandled	Traffic	122	Critical	5 hours ago	A few seconds ago	...
10	> 10.100.9...	Unhandled	SIEM	165	High	4 hours ago	A minute ago	...
11	> 10.100.9...	Unhandled	...	3963	High	5 hours ago	A minute ago	...
12	> 10.200.1...	Unhandled	...	170	Critical	4 hours ago	A minute ago	...
13	> 10.200.1...	Unhandled	Traffic	121	Critical	5 hours ago	A minute ago	...

Incidents & Events includes the following:

Event Monitor	View events generated by event handlers. For more information, see the FortiAnalyzer Administration Guide .
----------------------	--

Handlers

Configure data selectors, notification profiles, basic event handlers, and correlation event handlers.

For more information, see the [FortiAnalyzer Administration Guide](#).

Incidents

Create and update incidents to track and analyze events.

For more information, see the [FortiAnalyzer Administration Guide](#).

Threat Hunting

View a log count chart and SIEM log analytics table. The *Threat Hunting* dashboard is only available in Fabric ADOMs when ADOMs are enabled.

For more information, see the [FortiAnalyzer Administration Guide](#).

Log Parser

View and manage SIEM log parsers.

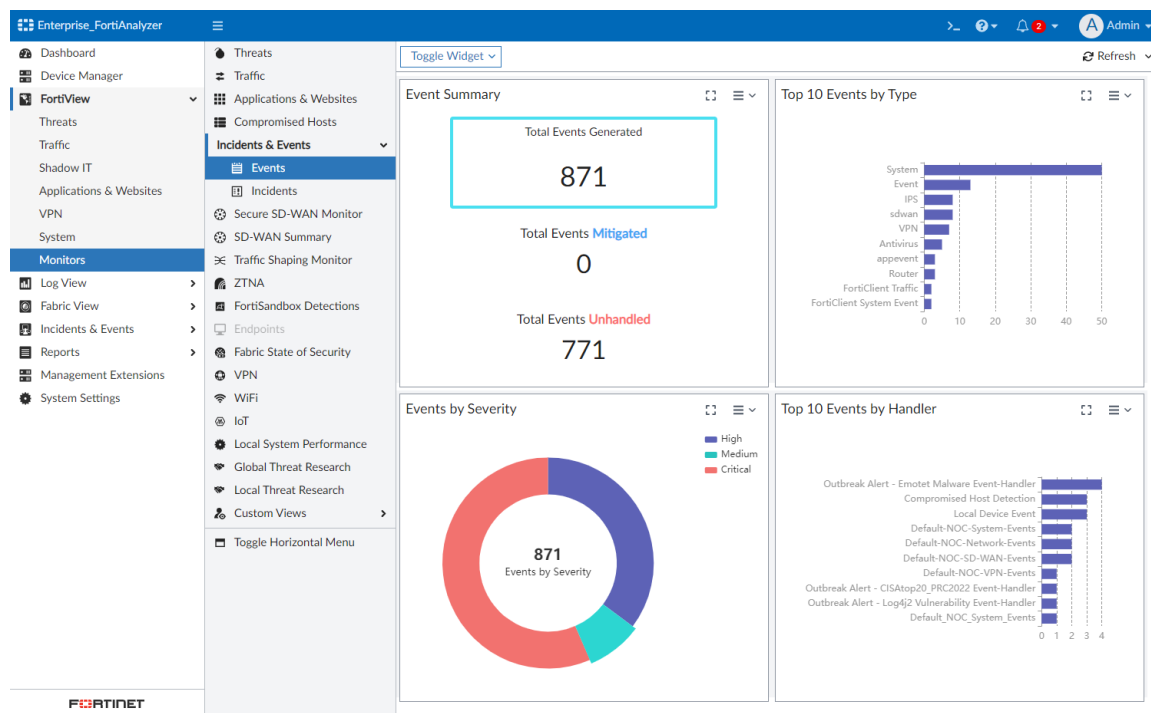
For more information, see the [FortiAnalyzer Administration Guide](#).

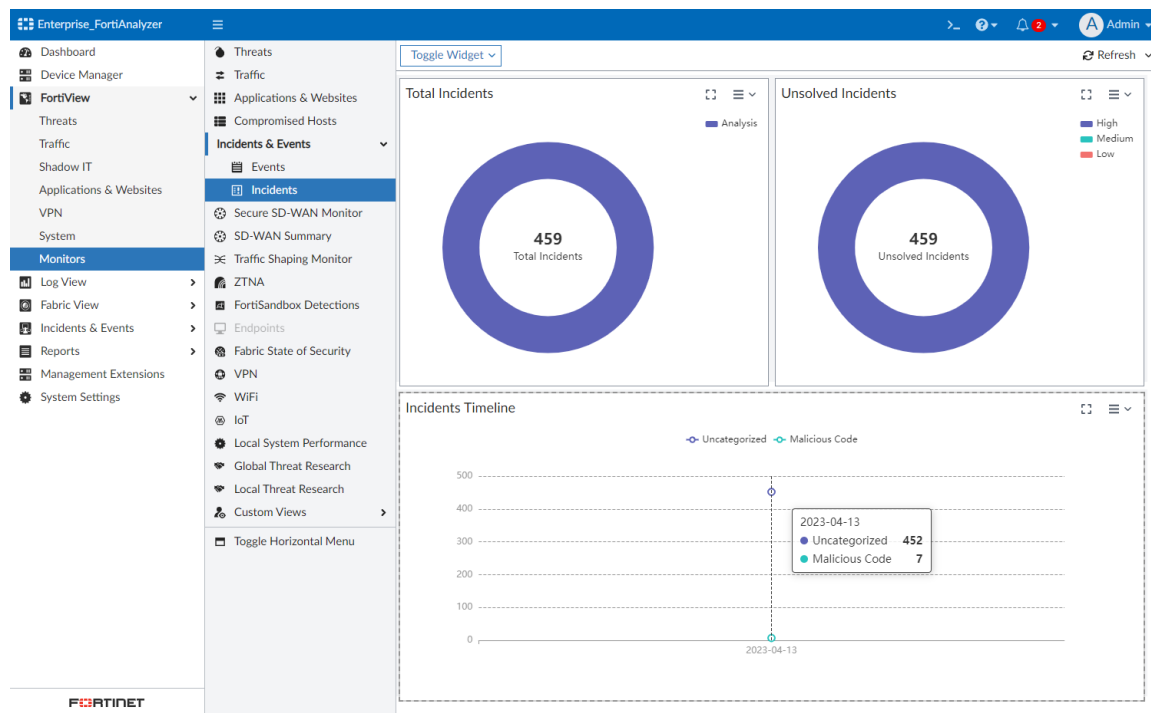
Outbreak Alerts

View outbreak alerts and automatically download related event handlers and reports from FortiGuard. The FortiAnalyzer Outbreak Detection Service is a licensed feature.

For more information, see the [FortiAnalyzer Administration Guide](#).

To review incidents and events in dashboards, go to *FortiView > Monitors > Incidents & Events*.





FortiView > Monitors > Incidents & Events includes the following dashboards:

Events

This dashboard includes the following widgets:

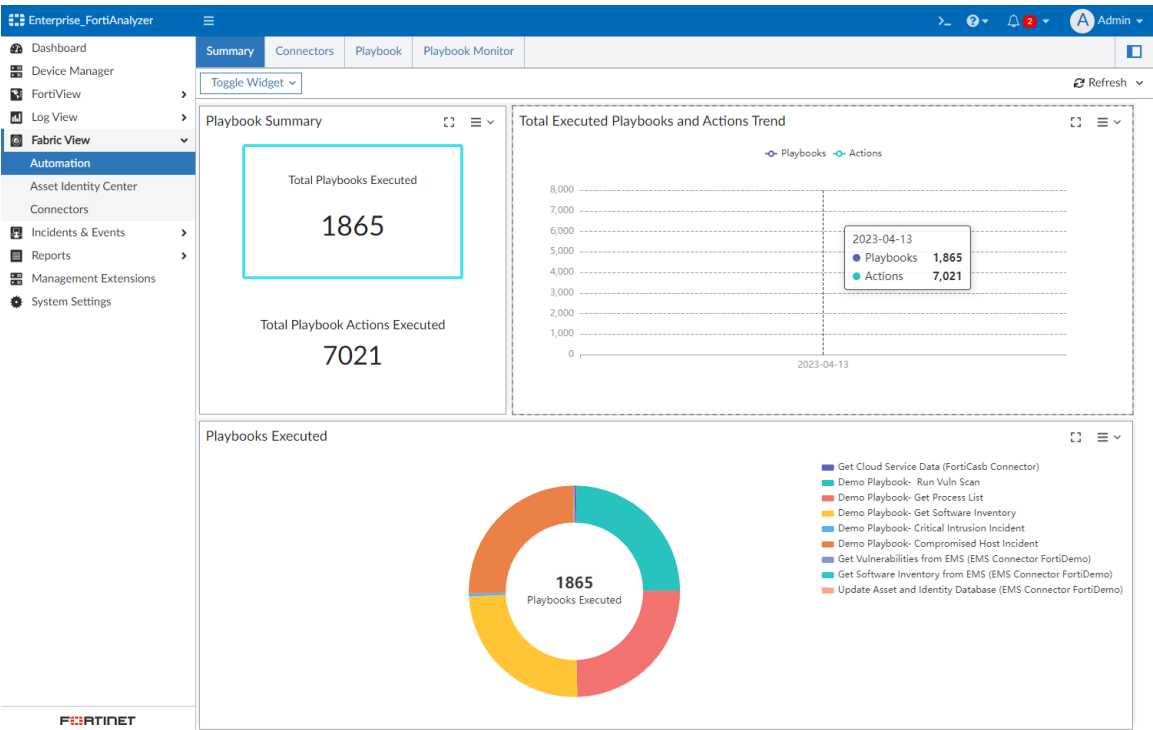
- *Event Summary*
- *Top 10 Events by Type*
- *Events by Severity*
- *Top 10 Events by Handler*

Incidents

This dashboard includes the following widgets:

- *Total Incidents*
- *Unsolved Incidents*
- *Incidents Timeline*

To configure FortiSoC playbooks, go to *Fabric View > Automation*.



Fabric View > Automation includes the following:

Summary	View playbook performance in a dashboard. This includes widgets for total playbooks, playbooks executed, and an actions trend. For more information, see the FortiAnalyzer Administration Guide .
Connectors	View the status of available connectors supported for playbook automation. For more information, see the FortiAnalyzer Administration Guide .
Playbook	Configure and manage playbooks. For more information, see the FortiAnalyzer Administration Guide .
Playbook Monitor	View playbook jobs in a table view. For more information, see the FortiAnalyzer Administration Guide .

Notifications for new Outbreak Alerts - 7.4.1



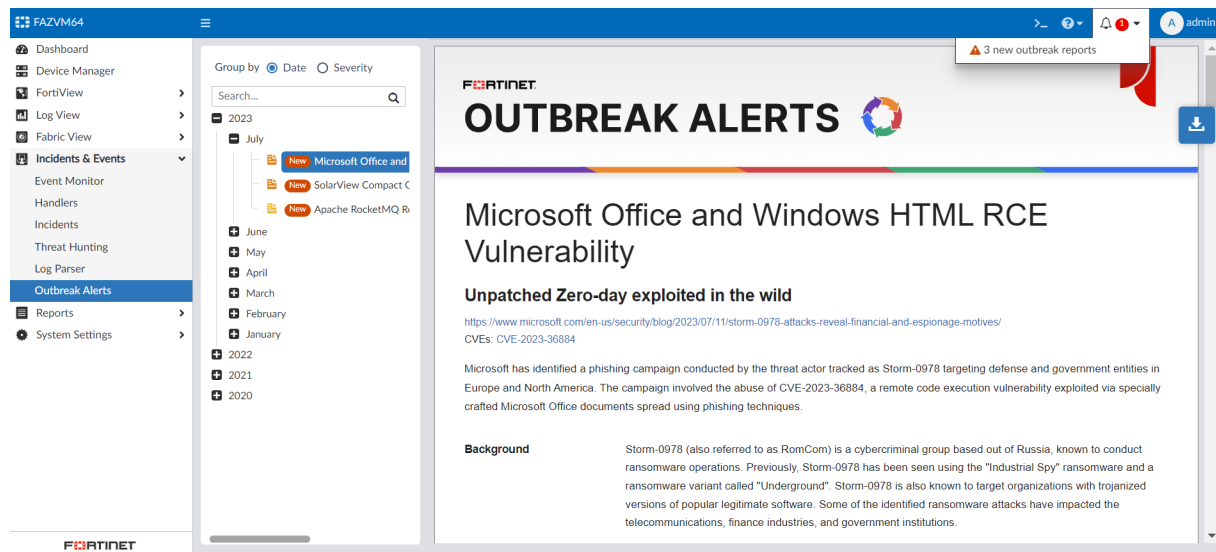
This information is also available in the FortiAnalyzer 7.4 Administration Guide:

- [Outbreak Alerts](#)

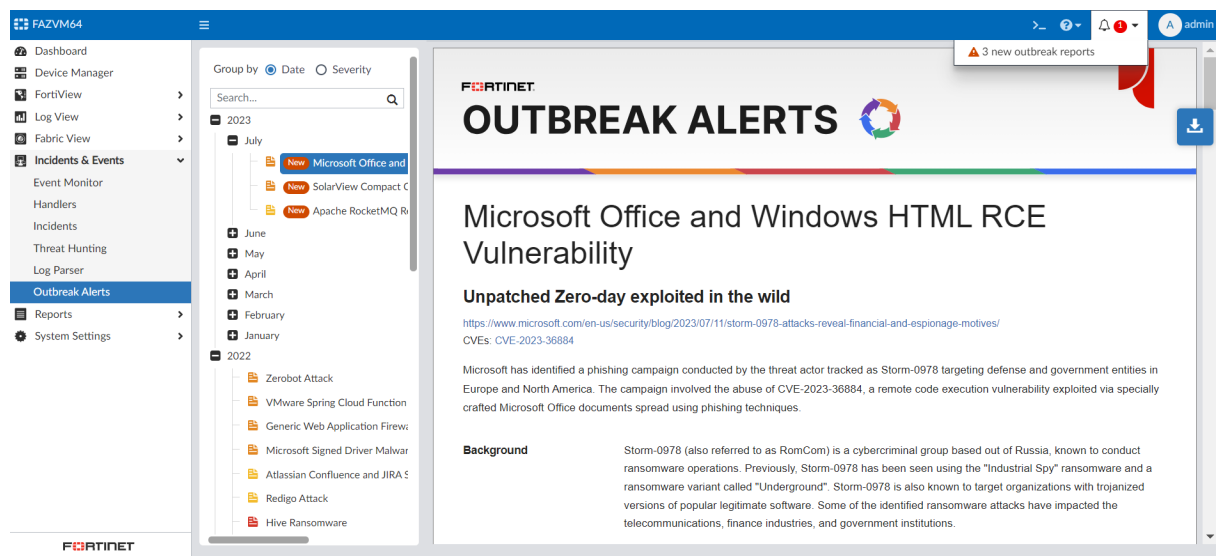
When new Outbreak Alerts are received, GUI notifications are added in the banner, ensuring timely notification for administrators.

In the *Outbreak Alerts* pane, the Outbreak Alerts can now be sorted by *Date* or *Severity*, allowing for easy browsing and retrieval based on these criteria. A "New" tag is also added to alerts received in the current month to distinguish them from previous alerts.

For example, see the image below.



Use the tree menu in the sidebar to expand and browse the list of alerts.



After refreshing the pane, you will no longer see the *New* tag.

The screenshot shows the FortiAnalyzer 7.4.1 interface. On the left sidebar, the 'Incidents & Events' menu is expanded, and 'Outbreak Alerts' is selected. The main content area displays 'OUTBREAK ALERTS' with a search bar and a 'Group by' dropdown set to 'Date'. A list of alerts is shown, with the top alert titled 'Microsoft Office and Windows HTML RCE Vulnerability'. The alert details include a link to a Microsoft security blog and a background section describing the Storm-0978 threat actor.

To group alerts in the sidebar by severity instead of *Date*, select the *Severity* radio button.

The screenshot shows the FortiAnalyzer 7.4.1 interface with the 'Group by' dropdown set to 'Severity'. The 'Critical' severity filter is selected, and a list of critical alerts is displayed. The top alert is the same 'Microsoft Office and Windows HTML RCE Vulnerability' alert. The alert details and background information are consistent with the previous screenshot.

MITRE ATT&CK matrices for Enterprise and ICS - 7.4.1



This information is also available in the FortiAnalyzer 7.4 Administration Guide:

- [MITRE ATT&CK®](#)

The *MITRE ATT&CK®* and *MITRE ATT&CK® ICS* panes have been added in FortiAnalyzer 7.4.1.

MITRE (MIT Research Establishment) ATT&CK (Adversarial Tactics, Techniques, and Common Knowledge) is a matrix that helps to identify the objective of cyber attacks and the techniques that they may use. The matrix uses tactics as column headers, and there are several techniques under each tactic. The Enterprise matrix consists of 16 tactics, and the ICS matrix consists of 12 tactics.

In FortiAnalyzer, the MITRE ATT&CK matrices provide information related to the attacks identified by the associated events and incidents. These panes also provide the coverage information of event handlers defined to identify the attacks.

The OT Security Service is required for FortiAnalyzer to use all functionality in the *MITRE ATT&CK® ICS* pane. For more information about this service, see the [FortiAnalyzer Datasheet](#).

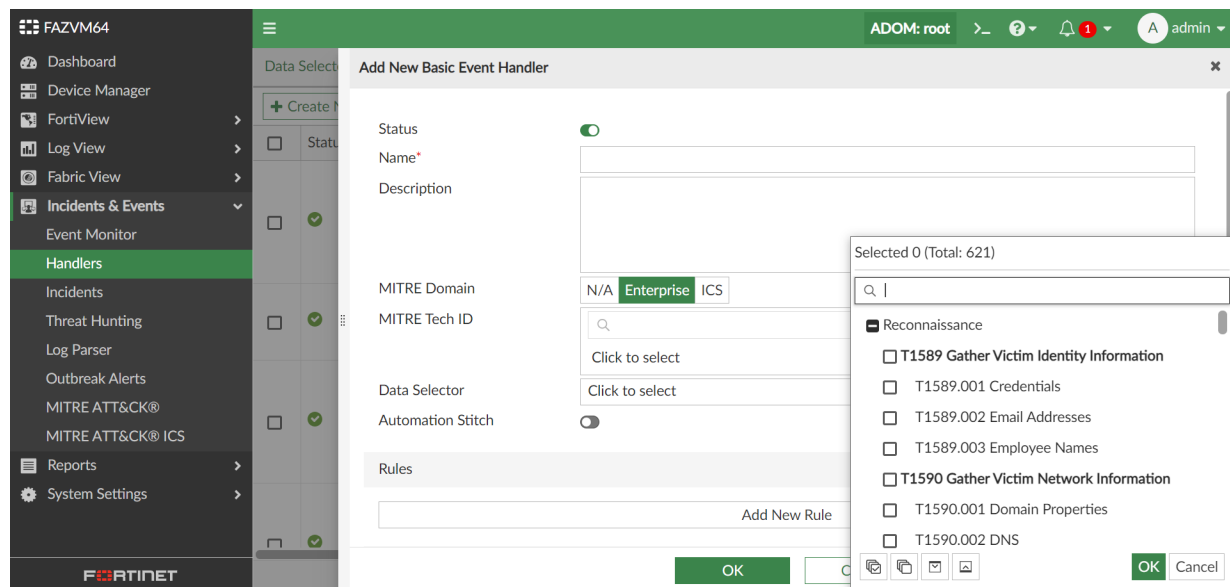
This topic includes the following information:

- To configure MITRE ATT&CK information in event handlers:
- To include MITRE ATT&CK information in an incident:
- To use the MITRE Domain or MITRE Tech ID as part of a playbook trigger:
- To use the Attack tab for a MITRE ATT&CK matrix in FortiAnalyzer:
- To use the Coverage tab for a MITRE ATT&CK matrix in FortiAnalyzer:
- MITRE ATT&CK® ICS without an OT Security Service license:

To configure MITRE ATT&CK information in event handlers:

1. When creating a basic or correlation event handler, select the *MITRE Domain*:
 - N/A (default)
 - Enterprise
 - ICS
2. If *Enterprise* or *ICS* is selected for the *MITRE Domain*, you can then select the *MITRE Tech ID(s)* from the dropdown.

This dropdown is an organized list of all the tactics and techniques in the matrix. You can select any number of techniques or sub-techniques based on the rules that will be defined for the event handler.



The *MITRE Domain* and *MITRE Tech ID* columns have been added to the table views in *Incidents & Events > Handlers > Basic Handlers* and *Incidents & Events > Handlers > Correlation Handlers*. Existing default event handlers have also been updated with a *MITRE Domain* and *MITRE Tech ID* where appropriate.

Statu	Name	Correlation	MITRE Domain	MITRE Tech ID
✓	Default-Attack-Event-Detected-After-Ma...	Malware Download Detected FOLLOWE...	enterprise	T1204.002
✓	Default-Brute-Force-Account-Login-Atta...	Login Failed 5 Times NOT_FOLLOWED_...	enterprise	T1110.001
✓	Default-Brute-Force-Account-Login-Atta...	Login Failed 5 times NOT_FOLLOWED_B...	enterprise	T1110.001
✓	Default-Data-Leak-Detected-After-Risky...	Risky App Detected FOLLOWED_BY[10...	enterprise	T1204.002
✓	Default-Firewall-Service-Deactivated-Aft...	(Attempt to Disable Firewall for Many TI...	enterprise	T1562.004,T1110.001
✓	Default-Firewall-Disabled-After-Special...	Special Privileges Assigned to New Logon...	enterprise	T1562.004
✓	Default-Outgoing-Botnet-CnC-Communi...	Outgoing Botnet Attack Detected FOLLO...	enterprise	T1584.005
✓	Default-SUNBURST-Domain-Traffic-Dete...	Malware Download Detected FOLLOWE...	enterprise	T1204.002
✓	Default-Access-to-a-Suspicious-Domain...	Malware Download Detected AND Acces...	enterprise	T1204.002
✓	Default-Access-to-a-Suspicious-Domain...	Risky App Detected FOLLOWED_BY[10...	enterprise	T1204.002
✓	Default-Suspicious-Traffic-from-Infected...	(Traffic to Botnet CnC detected or blocke...		
✓	Default-Syslog-Logging-Service-Deactiva...	Sudo Authentication Failed Many Times F...	enterprise	T1070.002,T1110.001
✓	Default-Syslog-Logging-Service-Deactiva...	Potential Shell Access via Web Server or	enterprise	T1070.002

To include MITRE ATT&CK information in an incident:

- When creating an incident, select the *MITRE Domain*:
 - N/A (default)
 - Enterprise
 - ICS
- If *Enterprise* or *ICS* is selected for the *MITRE Domain*, you can then select the *MITRE Tech ID(s)* from the dropdown.

This dropdown is an organized list of all the tactics and techniques in the matrix. You can select any number of techniques or sub-techniques based on the incident details.

Incident Category: Uncategorized

MITRE Domain: N/A Enterprise ICS

MITRE Tech ID: N/A

Severity: Medium

Status: New

Affected Endpoint: N/A

Description:

Assigned To:

Selected 0 (Total: 621)

- Reconnaissance
 - T1589 Gather Victim Identity Information
 - T1589.001 Credentials
 - T1589.002 Email Addresses
 - T1589.003 Employee Names
 - T1590 Gather Victim Network Information
 - T1590.001 Domain Properties
 - T1590.002 DNS

The *MITRE Domain* and *MITRE Tech ID* can also be included for incidents via the *Create Incident* and *Update Incident* playbook task actions. In the example below, the *MITRE Domain* can be selected when *Action = Create Incident*.

FAZVM64

ADOM: root

admin

Edit Playbook LOCALHOST

Name

Description

Enabled

Connector

Local Connector

This connector is auto-selected. You must click "OK" and save playbook to apply this selection.

Action

Create Incident

Endpoint ID

Playbook Starter

Click to select

End User ID

Playbook Starter

Click to select

Endpoint

Playbook Starter

Click to select

Category

Click to select

This field is required.

Severity

Click to select

Status

Click to select

Description

Click to select

Click to select

MITRE Domain

N/A

OK Cancel

The *MITRE Domain* and *MITRE Tech ID* columns have been added to the table view in *Incidents & Events > Incidents*.

FAZVM64

ADOM: root

admin

Create New Edit Delete Analysis Settings All

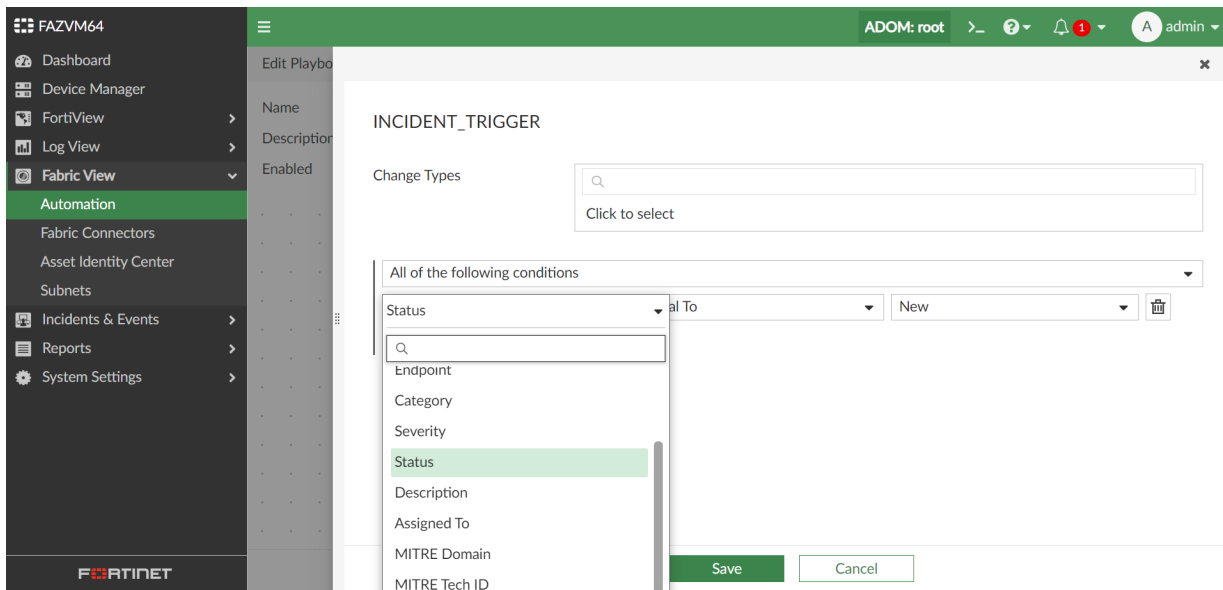
Search...

Incident Number	Action	MITRE Domain	MITRE Tech ID
<input type="checkbox"/> IN00000578	edule	enterprise	T1583.003
<input type="checkbox"/> IN00000577	edule	enterprise	T1583.003
<input type="checkbox"/> IN00000576	edule	enterprise	T1583.003
<input type="checkbox"/> IN00000575	edule	enterprise	T1583.003
<input type="checkbox"/> IN00000574	edule	enterprise	T1583.003
<input type="checkbox"/> IN00000573	edule	enterprise	T1583.003
<input type="checkbox"/> IN00000572	edule	enterprise	T1583.003
<input type="checkbox"/> IN00000571	edule	enterprise	T1583.003
<input type="checkbox"/> IN00000570	edule	enterprise	T1583.003
<input type="checkbox"/> IN00000569	edule	enterprise	T1583.003
<input type="checkbox"/> IN00000568	edule	enterprise	T1583.003
<input type="checkbox"/> IN00000567	edule	enterprise	T1583.003
<input type="checkbox"/> IN00000566		enterprise	T1589.002
<input type="checkbox"/> IN00000565	edule	enterprise	T1583.003
<input type="checkbox"/> IN00000564	edule	enterprise	T1583.003

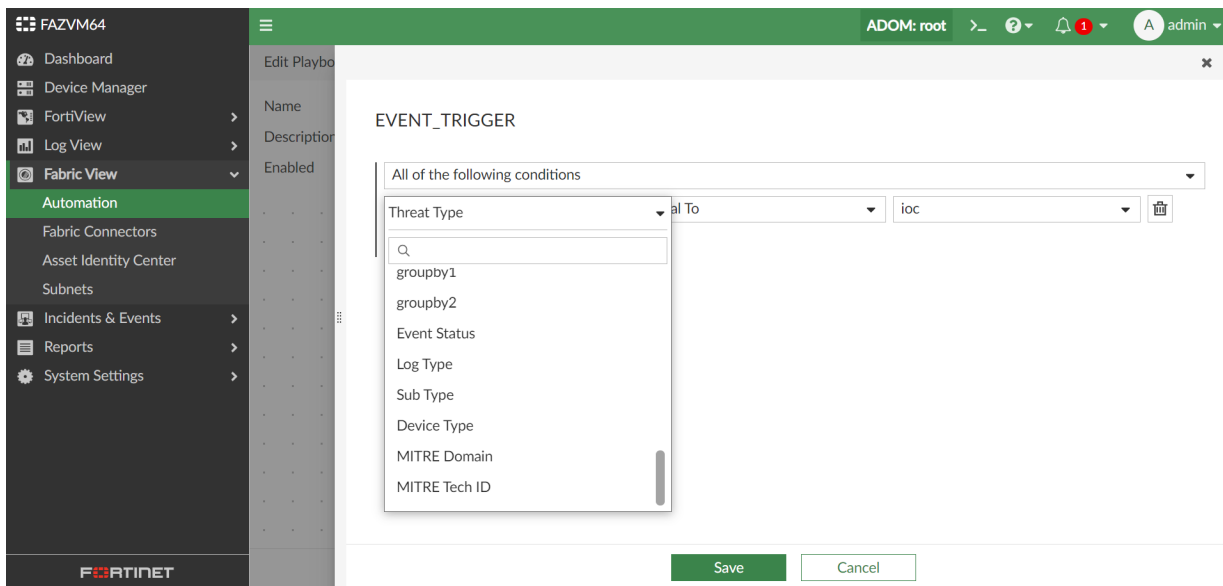
Fortinet

To use the MITRE Domain or MITRE Tech ID as part of a playbook trigger:

When configuring an *INCIDENT_TRIGGER* for a playbook, you can select *MITRE Domain* or *MITRE Tech ID* as a filter condition.



Similarly, when configuring an *EVENT_TRIGGER* for a playbook, you can select *MITRE Domain* or *MITRE Tech ID* as a filter condition.



To use the *Attack* tab for a MITRE ATT&CK matrix in FortiAnalyzer:

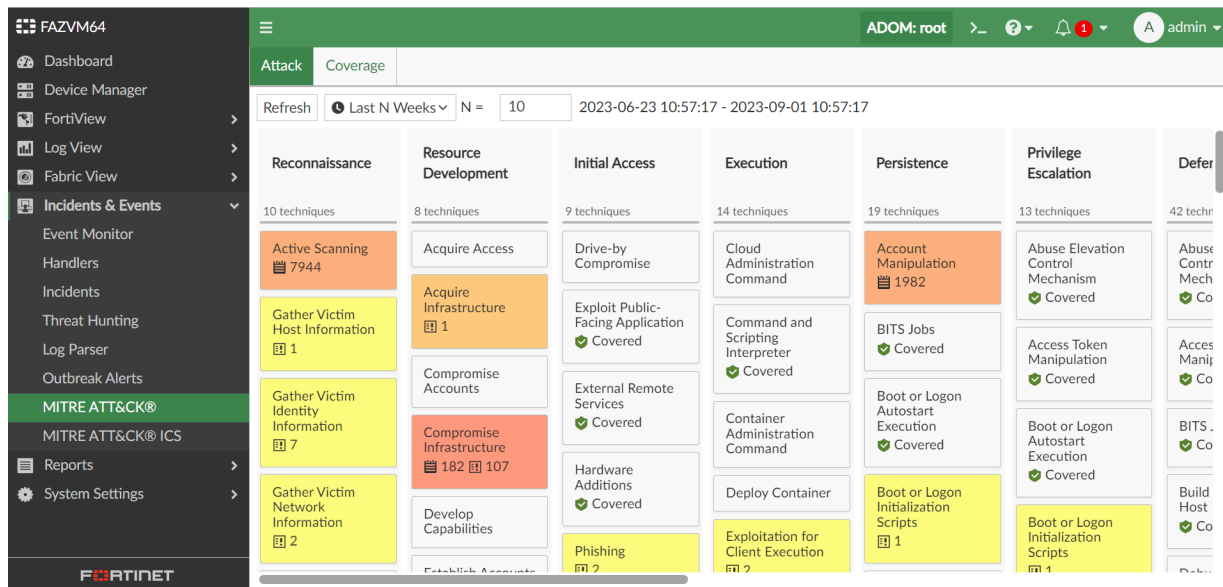


Incidents & Events > MITRE ATT&CK® > Attack is used for the examples below, but the same information applies for *Incidents & Events > MITRE ATT&CK® ICS > Attack* when you have an OT Security Service license in FortiAnalyzer.

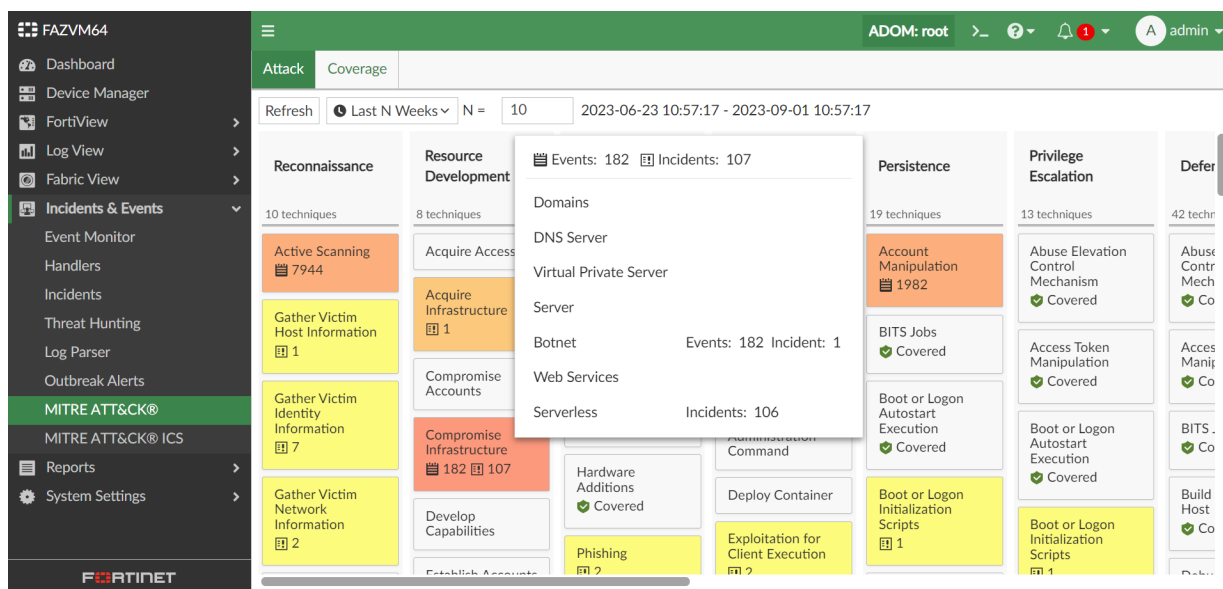
The *Attack* tab provides incident and event information associated with each technique in the matrix.

If there are events associated with the technique, an icon and count displays on the tile. A separate icon and count displays for the associated incidents as well.

You can refresh the matrix or view the attacks in the specific time range by using the time filter in the toolbar. In the example below, there are 182 events and 107 incidents associated with the *Compromise Infrastructure* technique in the last 10 weeks.



Mouse over a tile to display a tooltip with the number of events and/or incidents under each sub-technique. In the example below, the *Botnet* sub-technique has 182 events and 1 incident, while the *Serverless* sub-technique has 106 incidents.



Click a tile with associated events or incidents to open a pane for that technique. In this pane, you can toggle between table views for associated *Events* and *Incidents*.

The table view for *Events* associated with the technique includes the following columns:

Column	Description
Event Handler	The event handler that generated the event(s).
Severity	The severity of the event(s).
Technique	The technique or sub-technique related to the event(s).
Affected Endpoints	The number of affected devices. Click the count for affected endpoints to open another pane with the list of endpoints found in the events.
Event Count	The event count related to that event handler and technique or sub-technique.

The screenshot shows the FortiAnalyzer 7.4.0 interface. The left sidebar contains the 'Incidents & Events' menu. The main pane displays a table with columns: Event Handler, Severity, Technique, Affected Endpoints, and Event Count. The table shows three rows of data for 'Default-Botnet-Communication-Detection' with a severity of 'High' and technique 'T1584.005 Botnet'. The 'Affected Endpoints' column shows '2 Devices' and the 'Event Count' column shows '58', '58', and '66' respectively. A search bar is visible at the top right of the table.

Click the event count to open *Incidents & Events > Event Monitor* in a new tab. The *Event Monitor* is filtered by the selected handler and time range from the matrix. Note that the *Event Monitor* now includes columns for the *MITRE Domain* and *MITRE Tech ID*.

Event	Severity	Description	Last Update	MITRE Domain	MITRE Tech ID
Zeroaccess.Botnet (10)	High	Traffic to Botnet C&C from 8.8.8.8:1 09:30:50	2023-08-31 09:31:12	enterprise	T1584.005,T1071
		Traffic to Botnet C&C from 8.8.8.8:0 15:57:41	2023-08-30 15:58:08	enterprise	T1584.005,T1071
		Traffic to Botnet C&C from 8.8.8.8:0 09:43:12	2023-08-30 09:51:49	enterprise	T1584.005,T1071
		Traffic to Botnet C&C from 8.8.8.8:9 10:21:13	2023-08-29 10:36:59	enterprise	T1584.005,T1071
		Traffic to Botnet C&C from 8.8.8.8:8 16:49:44	2023-08-28 16:54:06	enterprise	T1584.005,T1071
		Traffic to Botnet C&C from 8.8.8.8:5 16:14:14	2023-08-25 16:14:23	enterprise	T1584.005,T1071
		Traffic to Botnet C&C from 8.8.8.8:4 09:13:17	2023-08-24 09:38:44	enterprise	T1584.005,T1071
		Traffic to Botnet C&C from 8.8.8.8:2 17:12:50	2023-08-22 17:17:34	enterprise	T1584.005,T1071
		Traffic to Botnet C&C from 8.8.8.8:2 15:51:03	2023-08-22 15:51:22	enterprise	T1584.005,T1071
		Traffic to Botnet C&C from 8.8.8.8:3 14:51:34	2023-07-13 14:52:30	enterprise	T1584.005,T1071

The table view for *Incidents* associated with the technique includes following columns:

Column	Description
Severity	The severity of the incident(s).
Description	The description for the incident.
Technique	The technique or sub-technique related to the incident(s).
Affected Endpoints	<p>The number of affected endpoints.</p> <p>Click the count for affected endpoints to open another pane with the list of endpoints found in the incidents.</p>
Incidents	<p>The incident count related to that technique or sub-technique.</p> <p>Click the incident count to open the <i>Incidents</i> pane in a new tab. It is filtered by incidents of the selected technique.</p>

To use the **Coverage** tab for a MITRE ATT&CK matrix in FortiAnalyzer:



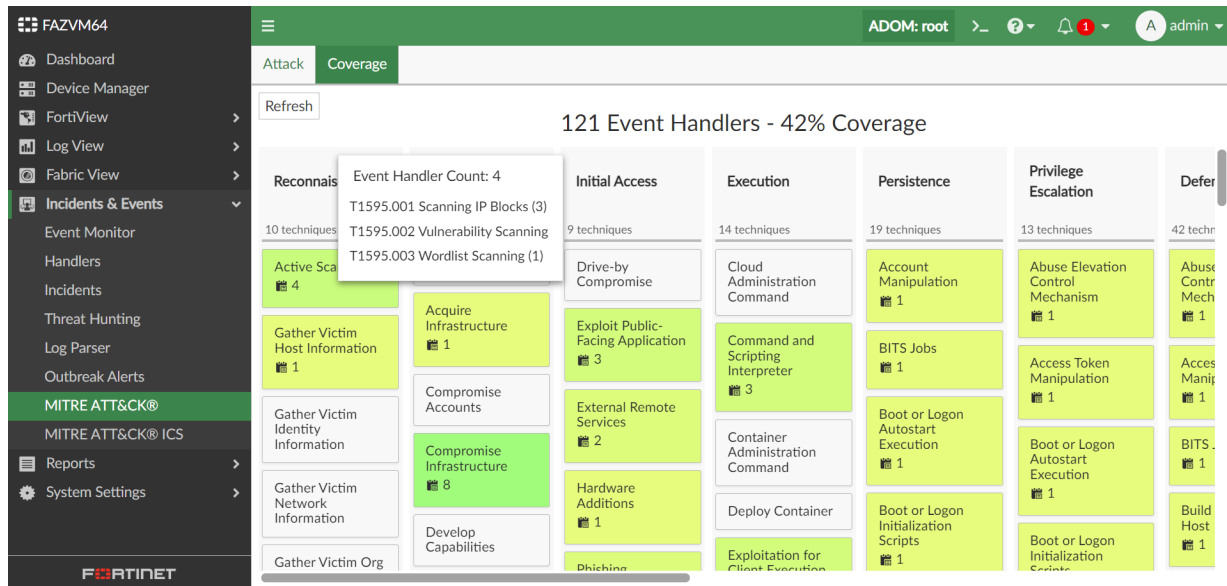
Incidents & Events > MITRE ATT&CK® > Coverage is used for the examples below, but the same information applies for *Incidents & Events > MITRE ATT&CK® ICS > Coverage* when you have an OT Security Service license in FortiAnalyzer.

The **Coverage** tab displays the number of event handlers associated with each technique in the matrix. This helps you to determine gaps in coverage where more event handlers could be configured to identify related attacks. The top of the pane displays the overall coverage. In the example below, the coverage is **121 Event Handlers - 42% Coverage**.

When a basic or correlation event handler is associated with a technique, it will be included as part of the coverage for that technique. The tile displays an icon and count for associated event handlers. Mouse over the tile to display the

information in a tooltip. This includes the total event handler count and a breakdown of the count for each sub-technique, if they are available.

In the example below, the tooltip displays three event handlers associated with the *Scanning IP Blocks* sub-technique and one associated with the *Wordlist Scanning* sub-technique.



Click a tile with coverage to open a table view of event handlers for that technique. The table includes the following columns:

Column	Description
State	The state of the event handler: <i>Enabled</i> or <i>Disabled</i> .
Event Handlers	The name of the event handler.
Description	The description of the event handler.
Technique	The technique or sub-technique(s) associated with the event handler. If there are multiple sub-techniques associated with the event handler, the count will be provided in this column. Click the count to display which sub-techniques are associated with the event handler.

State	Event Handler	Description	Technique
Disabled	Default-FWB-Threat-Detection-By-Hostname	Default FortiWeb Handler to detect mali...	3 Techniques
Disabled	Default-Windows-Terminal-Service-Process-S	Detects a process spawned by the termina...	2 Techniques
Disabled	Default-Windows-Various-Exploitation	Detects exploits from newly created proce...	13 Techniques

Click an event handler name in the table to view the event handler configuration. You can edit the *Status*, *MITRE Domain*, and *MITRE Tech ID* from this pane, if needed. After updating the coverage for an event handler, refresh the *MITRE ATT&CK®* matrix to display the changes.

Edit Basic Event Handler

Status: ☐

Name: Default-FWB-Threat-Detection-By-Hostname

Description: Default FortiWeb Handler to detect malicious and suspicious activities grouped by web server's host name

MITRE Domain: N/A **Enterprise** ICS

MITRE Tech ID:

- T1608.003 Install Digital Certificate
- T1190 Exploit Public-Facing Application
- T1499.002 Service Exhaustion Flood

 3 entries selected

Data Selector: Click to select

Automation Stitch: ☐

Factory Reset OK Cancel

MITRE ATT&CK® ICS without an OT Security Service license:

If you do not have an OT Security Service license for FortiAnalyzer, the *MITRE ATT&CK® ICS* pane will display a notification that the license is missing.

The *Attack* tab will not display any event or incident counts for the techniques in the matrix.

The screenshot shows the FortiAnalyzer 7.4.2 interface with the 'Coverage' tab selected. The left sidebar contains navigation options like Dashboard, Device Manager, FortiView, Log View, Fabric View, Incidents & Events, Event Monitor, Handlers, Incidents, Threat Hunting, Log Parser, Outbreak Alerts, MITRE ATT&CK®, MITRE ATT&CK® ICS, Reports, and System Settings. The main area displays a grid of technique categories and their counts:

Initial Access	Execution	Persistence	Privilege Escalation	Evasion	Discovery	Lateral Move
12 techniques	9 techniques	6 techniques	2 techniques	6 techniques	5 techniques	7 techniques
Drive-by Compromise	Change Operating Mode	Hardcoded Credentials	Exploitation for Privilege Escalation	Change Operating Mode	Network Connection Enumeration	Default Credentials
Exploit Public-Facing Application	Command-Line Interface	Modify Program	Hooking	Exploitation for Evasion	Network Sniffing	Exploitation Remote
Exploitation of Remote Services	Execution through API	Module Firmware		Indicator Removal on Host	Remote System Discovery	Hardcoded Credentials
External Remote Services	Graphical User Interface	Project File Infection		Masquerading	Remote System Information Discovery	Lateral Transfer
Internet Accessible Device	Hooking	System Firmware		Rootkit		
Remote Services	Modify Controller Tasking	Valid Accounts		Spoof Reporting Message		
Replication	Native API					

A 'No OT License' warning is displayed in the bottom right corner, with a 'Purchase License' button.

The **Coverage** tab will display the event handler counts for the techniques, but you will not be able to click the tiles to view their information or perform any actions.

This screenshot shows the same FortiAnalyzer 7.4.2 interface, but with the 'Coverage' tab selected. The 'Drive-by Compromise' technique under the 'Initial Access' category is highlighted in green, indicating it has 1 event handler and 1% coverage. The rest of the interface is identical to the previous screenshot.

Deliver reports, event handlers, and SIEM rules as FortiGuard packages - 7.4.2



This information is also available in the FortiAnalyzer 7.4 Administration Guide:

- [Security Automation Service objects](#)

FortiAnalyzer 7.4.2 includes the following enhancements:

- **FortiGuard Outbreak Detection Service:** Outbreak Alert reports delivered in content packages are saved on the global level, reducing per-ADOM installation time.
- **FortiAnalyzer Security Automation Service:** The FortiAnalyzer Security Automation Service offers premium reports, event handlers, SIEM parsers, and playbooks as content packages. These RHSP FortiGuard package objects are only applied with a valid Security Automation Service license. For more information about this service, see the [FortiGuard website](#).

To determine if you have a valid license for these services in your FortiAnalyzer GUI, see [License Information widget](#) in the FortiAnalyzer Administration Guide.

Reports:

Reports delivered as part of licensed FortiGuard Outbreak Detection Service can be found in *Reports > Report Definitions > All Reports*. They are stored in the *Outbreak Alert Reports* folder at the global level. Outbreak Alert reports released prior to this release remain at the ADOM level.

Title	Origin	Language	Cache Status	Time Period
FortiSandbox Reports				
FortiWeb Reports				
Network Reports				
Outbreak Alert Reports				
Outbreak Alert - JetBrains TeamCity RCE Report	FortiGuard	English		Previous 7 Days
Outbreak Alert - Lazarus RAT Attack Report	FortiGuard	English		Previous 7 Days
Outbreak Alert - 3CX Supply Chain Attack Report	FortiGuard	English		
Outbreak Alert - AD Privilege Escalation Report	FortiGuard	English		
Outbreak Alert - Adobe ColdFusion Code Execution Report	FortiGuard	English		
Outbreak Alert - Agent Tesla Malware Attack Report	FortiGuard	English		
Outbreak Alert - Apache ActiveMQ Attack Report	FortiGuard	English		
Outbreak Alert - Apache Commons Text RCE Report	FortiGuard	English		

Reports included in the RHSP packages from the Security Automation Service are displayed in the global *Security Automation Reports* folder. Note that the global folder and global reports are identified with the system theme's color

applied to the icon.

The screenshot shows the FortiAnalyzer 7.4.0 Reports page. The left sidebar contains navigation options: Dashboard, Device Manager, FortiView, Log View, Fabric View, Incidents & Events, Reports (selected), Generated Reports, Report Definitions, Advanced Settings, and System Settings. The main content area displays the 'All Reports' table. The table has columns: Title, Origin, Language, Cache Status, and Time Period. The 'Origin' column is highlighted in blue. The table lists various reports, including FortiGuard Reports, FortiNAC Reports, FortiNDR Reports, FortiProxy Reports, FortiSandbox Reports, FortiWeb Reports, Network Reports, Outbreak Alert Reports, Security Automation Reports, Security Automation - Security Analysis (marked as 'New'), SOC Reports, 00-cr, and Daily Summary Report. The 'Origin' column values are FortiGuard, Custom, and Built-in. The 'Time Period' column values are Previous 7 Days, Previous N Days (60), and Yesterday. The bottom status bar shows '100% 280'.

Title	Origin	Language	Cache Status	Time Period
FortiGuard Reports	FortiGuard	English		Previous 7 Days
FortiNAC Reports				
FortiNDR Reports				
FortiProxy Reports				
FortiSandbox Reports				
FortiWeb Reports				
Network Reports				
Outbreak Alert Reports				
Security Automation Reports				
Security Automation - Security Analysis	FortiGuard	English		Previous 7 Days
SOC Reports				
00-cr	Custom	English		Previous N Days (60)
Daily Summary Report	Built-in	English		Yesterday

A new *Origin* column is added to the *All Reports*, *Templates*, *Chart Library*, *Macro Library*, and *Datasets* tables to indicate where the object originated:

- **FortiGuard:** Delivered by a FortiGuard package.
- **Built-in:** Included in the FortiAnalyzer by default.
- **Custom:** Created by a FortiAnalyzer administrator.

The screenshot shows the FortiAnalyzer 7.4.0 Report Definitions page. The left sidebar is the same as the previous screenshot. The main content area displays the 'Report Definitions' table. The table has columns: Title, Category, Preview, and Origin. The 'Origin' column is highlighted in blue. The table lists various report templates, including 360 Protection Report, 360 Security Report, 360-Degree Security Review, Admin and System Events Report, Application Risk and Control, Asset and Identity Report, Bandwidth and Applications Report, CIS Controls Security Rating Report, Client Reputation, Cyber Threat Assessment, Cyber-Bullying Indicators Report, DLP Report, and DNS Report. The 'Origin' column values are Built-in. The 'Preview' column values are HTML PDF. The bottom status bar shows '0% 87'.

Title	Category	Preview	Origin
Template - 360 Protection Report	System	HTML PDF	Built-in
Template - 360 Security Report	Security	HTML PDF	Built-in
Template - 360-Degree Security Review	Security	HTML PDF	Built-in
Template - Admin and System Events Report	System	HTML PDF	Built-in
Template - Application Risk and Control	Application	HTML PDF	Built-in
Template - Asset and Identity Report	Assets	HTML PDF	Built-in
Template - Bandwidth and Applications Report	Application	HTML PDF	Built-in
Template - CIS Controls Security Rating Report	Security	HTML PDF	Built-in
Template - Client Reputation	User	HTML PDF	Built-in
Template - Cyber Threat Assessment	Security	HTML PDF	Built-in
Template - Cyber-Bullying Indicators Report	Application	HTML PDF	Built-in
Template - DLP Report	Security	HTML PDF	Built-in
Template - DNS Report	System	HTML PDF	Built-in

Global report's *Layout*, *Chart*, and *Dataset* cannot be edited or deleted. They are available for reference only.

Name	Origin	Description	Device Type	Category
Admin Login Summary by Date	FortiGuard	Administrator login summary by date	FortiGate	Event
Bandwidth Summary	FortiGuard	Traffic bandwidth usage summary	FortiGate	Traffic
Botnet Victims	FortiGuard	Botnet victims	FortiGate	Traffic
DNS Detected Botnets	FortiGuard	DNS Detected botnets	FortiGate	DNS
Detected Botnets	FortiGuard	Detected botnets	FortiGate	Traffic
Outbreak Alert - JetBrains TeamCity RCE FADC IPS	FortiGuard		FortiADC	Intrusion Prev
Outbreak Alert - JetBrains TeamCity RCE FCT Vuln ID	FortiGuard		FortiClient	FortiClient Se
Outbreak Alert - JetBrains TeamCity RCE FGT AV	FortiGuard		FortiGate	Antivirus
Outbreak Alert - JetBrains TeamCity RCE FGT IPS	FortiGuard		FortiGate	Intrusion Prev
Outbreak Alert - JetBrains TeamCity RCE FGT Vuln IPS	FortiGuard		FortiGate	Intrusion Prev
Outbreak Alert - Lazarus RAT Attack FCT AV	FortiGuard		FortiClient	FortiClient Sy
Outbreak Alert - Lazarus RAT Attack FGT AV	FortiGuard		FortiGate	Antivirus
Outbreak Alert - Lazarus RAT Attack FGT IPS	FortiGuard		FortiGate	Intrusion Prev

SIEM log parsers:

SIEM parsers delivered by the RHSP package are displayed in *Incidents & Events > Log Parsers*. They are stored at the global level and *FortiGuard* is displayed in the *Origin* column indicating that the parsers were delivered as part of a FortiGuard package.

Name	Application	Origin	Status
Web Server 3			
Apache Log Parser	Apache	Custom	Enabled
Security Automation - Apache Log Parser	Apache	FortiGuard	Disabled
Nginx Log Parser	Nginx	Custom	Enabled
Ubuntu System 1			
Ubuntu Syslog Parser	Ubuntu	Custom	Enabled
Windows System 1			
Windows Event Log Parser	Windows	Custom	Enabled
Generic System 1			
System Log Parser	Syslog	Custom	Enabled
Fortinet Device 22			

Playbooks:

Playbooks delivered by the RHSP package are displayed in *Fabric View > Automation > Playbook*.

FAZVM64		ADOM: root				
Dashboard	Summary	Connectors	Playbook	Playbook Monitor		
Device Manager	+ Create New Run Edit Delete Enable Disable More					Search...
FortiView						
Log View						
Fabric View						
Automation						
Fabric Connectors						
Asset Identity Center						
Subnets						
Incidents & Events						
Reports						
System Settings						

<input type="checkbox"/>	Name	Description	Status	Created Time	Modified Time
<input type="checkbox"/>	Security Automation - IPS	Playbook to create incident on FortiAnalyzer for d...	Enabled	04/17/2020	05/31/2021
<input type="checkbox"/>	SOC-Subscription-IPS	Playbook to create incident on FortiAnalyzer for d...	Enabled	04/17/2020	05/31/2021

Event handlers:

Handlers delivered by the RHSP package are displayed in *Incidents & Events > Handlers > Basic Handlers*.

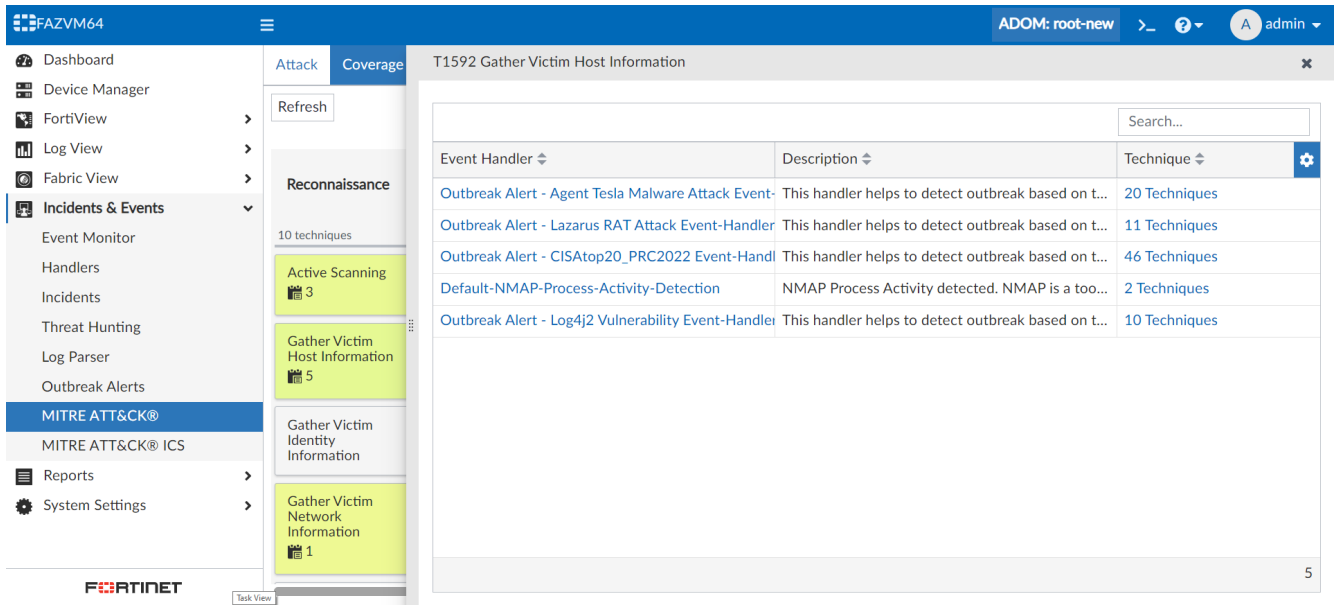
FAZVM64		ADOM: root				
Dashboard	Data Selectors	Notification Profiles	Basic Handlers	Correlation Handlers		
Device Manager	+ Create New Edit Delete Clone More					soc
FortiView						
Log View						
Fabric View						
Incidents & Events						
Event Monitor						
Handlers						
Incidents						
Threat Hunting						
Log Parser						
Outbreak Alerts						
MITRE ATT&CK®						
MITRE ATT&CK® ICS						
Reports						
System Settings						

<input type="checkbox"/>	Status	Name	Rules	Data Selector	Notification Profile	Auto
<input type="checkbox"/>	✓	SOC-Subscription-Botnet-Communication-Dete...	Rule-1 Traffic to Botnet CnC blocked in virus log Rule-2 Traffic to Botnet CnC detected in virus log Rule-3 DNS traffic to Botnet CnC blocked: (Botnet CnC) Rule-4 Traffic to Botnet CnC detected in ips log			No
<input type="checkbox"/>	✗	Default-NOC-Wireless-Events	Rule-1 Fake AP detected: (Default,NOC,Wireless) Rule-2 Rogue AP detected: (Default,NOC,Wireless) Rule-3 Wireless event log id matched: (Default,NOC,Wireless) Rule-4 Wireless client activity detected: (Default,NOC,Wireless)			No
<input type="checkbox"/>	✗	Default-Windows-Exfiltration-and-Tunneling	Rule-1 DNS Exfiltration and Tunneling Tools Execution Rule-2 DNS Tunnel Technique from MuddyWater Rule-3 Exfiltration and Tunneling Tools Execution			No

MITRE information included in outbreak detection - 7.4.2

The *MITRE Domain* and *MITRE Tech ID* are now included in Outbreak Alert event handlers. For more information about Outbreak Alerts, see *Outbreak Alerts* in the [FortiAnalyzer Administration Guide](#).

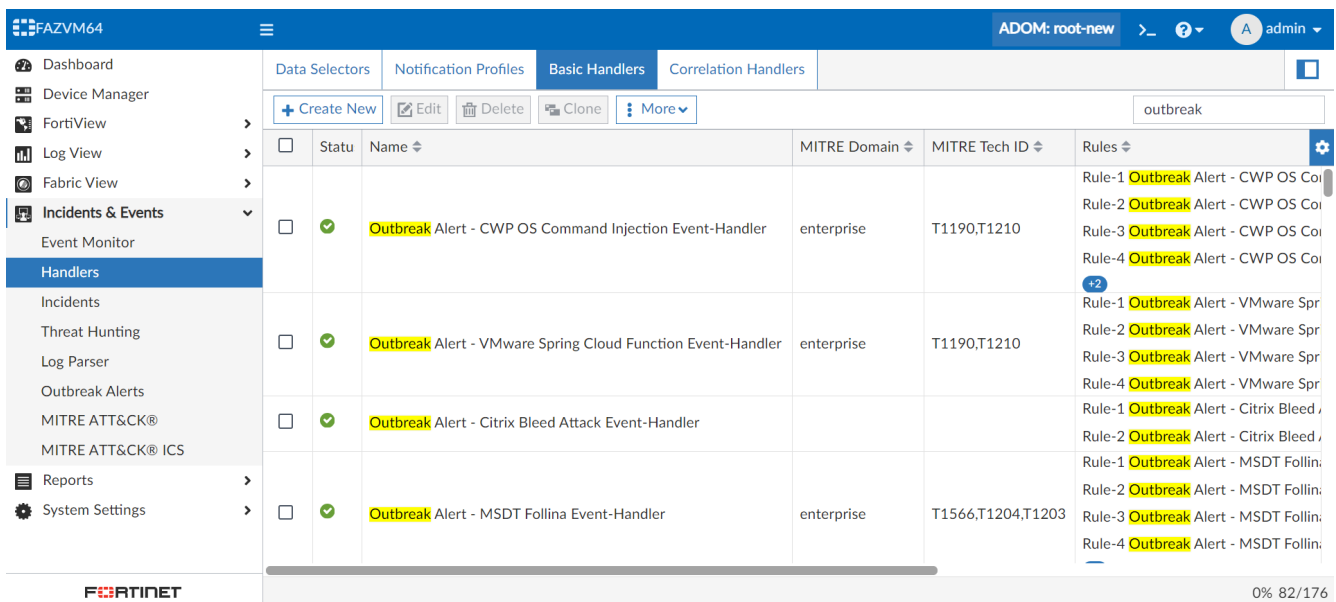
As a result, the relevant Outbreak Alert event handlers display in the appropriate techniques in *MITRE ATT&CK® > Coverage*. For example, see the image below.



For more information about the *MITRE ATT&CK®* pane, see the [FortiAnalyzer Administration Guide](#).

To view the MITRE information in the Outbreak Alert event handlers:

In *Incidents & Events > Basic Handlers*, the *MITRE Domain* and *MITRE Tech ID* columns display the information for Outbreak Alert event handlers.



You can also review and update this information when editing an Outbreak Alert event handler. For example, see the *MITRE Domain* and *MITRE Tech ID* fields in the image below.

FAZVM64 ADOM: root-new admin

Dashboard
Device Manager
FortiView
Log View
Fabric View
Incidents & Events
Event Monitor
Handlers
Incidents
Threat Hunting
Log Parser
Outbreak Alerts
MITRE ATT&CK®
MITRE ATT&CK® ICS
Reports
System Settings

Data Selectors

+ Create New

Status

Name* Outbreak Alert - CWP OS Command Injection Event-Handler

Description This handler helps to detect outbreak based on the FortiGate AV, IPS and App Control detections, FortiClient AV, Vulnerability and Web Filter detections as well as FortiSandbox detections 188/1024

MITRE Domain N/A Enterprise ICS

MITRE Tech ID

T1190 Exploit Public-Facing Application
T1210 Exploitation of Remote Services
2 entries selected

Data Selector Click to select

Automation Stitch

Factory Reset OK Cancel

Log and Report

This section lists the new features added to FortiAnalyzer for logs and reports:

- [Logging on page 69](#)
- [Log Forwarding on page 89](#)
- [Reports on page 93](#)
- [Others on page 115](#)

Logging

This section lists the new features added to FortiAnalyzer for logging:

- [FortiAnalyzer supports FortiWeb Cloud attack logs on page 69](#)
- [Support parsing and addition of third-party application logs to the SIEM DB on page 70](#)
- [Per-ADOM log rate on page 76](#)
- [Support EMS multitenancy via FortiAnalyzer ADOMs 7.4.1 on page 78](#)
- [Logging support for FortiCASB 7.4.1 on page 80](#)
- [Logging support for FortiPAM 7.4.1 on page 82](#)
- [Logging support for FortiToken Cloud 7.4.1 on page 83](#)
- [Support parsing and addition of third-party application logs to the SIEM DB in JSON format 7.4.1 on page 84](#)
- [FortiAnalyzer supports packet header information for FortiWeb traffic log 7.4.1 on page 86](#)
- [Support additional log fields for long live session logs 7.4.2 on page 88](#)

FortiAnalyzer supports FortiWeb Cloud attack logs

FortiAnalyzer now supports FortiWeb Cloud attack logs, and additional event/attack log fields have been added.

After adding and authorizing a FortiWeb Cloud device in FortiAnalyzer, you can view Attack and Event logs from this device in *Log View*.

To view FortiWeb Cloud logs in FortiAnalyzer:

1. In *Device Manager*, add and authorize the FortiWeb Cloud device.
2. To view logs from the FortiWeb Cloud device, go to *Log View > Log Browse*.

Add Filter		All Devices		Last 1 Day		Display Delete Download Import		
#	Device Name	Serial Number	VDOM	Type	File Name	From	To	Size
<input type="checkbox"/> 1	FVBCLD3920584167	FVBCLD3920584167	root	Attack	alog.log	2023-01-30 16:10:21	2023-02-02 10:11:46	17.3k
<input type="checkbox"/> 2	FVBCLD3920584167	FVBCLD3920584167	root	Event	elog.log	2023-01-30 16:10:21	2023-02-02 10:25:37	11.2k
<input type="checkbox"/> 3	FVBCLD3546102879	FVBCLD3546102879	root	Attack	alog.log	2023-01-30 16:10:20	2023-02-02 10:11:53	23.0k
<input type="checkbox"/> 4	FVBCLD3546102879	FVBCLD3546102879	root	Event	elog.log	2023-01-30 16:10:19	2023-02-02 10:25:40	12.6k
<input type="checkbox"/> 5	.self	FAZVMSTM22000868	leo-FWB-CLD	App Events	rlog.log	2023-01-29 17:44:40	2023-02-02 10:14:49	4.1k

You can also go to *Log View > FortiWeb > Attack*. This includes FortiWeb Cloud attack logs, as well as four new fields:

- *user_id*, which corresponds to the *User ID* column
- *app_id*, which corresponds to the *Application ID* column
- *app_name*, which corresponds to the *Application Name* column
- *app_domain*, which corresponds to the *Application Domain* column

See an example of *Log View > FortiWeb > Attack* below.

All FortiWeb - Last 1 Hour - 09:30:50 To 10:30:49											
#	▼ Date/Time	Device ID	Source Name	Action	HTTP URL	HTTP Host	Message	Application Name	Application Domain	Application ID	Login User Name
1	10:11:44	FVBCLD354...		Block	none	none	IP Protectio...	WestWind DI	www.westwinddi.com	1082477833	Unknown
2	10:11:43	FVBCLD392...		Alert	none	none	Bot Verifica...	receptionbaseline.ed...	receptionbaseline.educ...	5186413233	Unknown
3	10:11:42	FVBCLD392...		Monitor	/SeguroDeAu...	autos.elpotosi...	Cookie Sec...	autos	autos.elpotosi.com.mx	6136600265	Unknown
4	10:11:41	FVBCLD392...		Block	/wp-admin/a...	www.ket.org	Known Atta...	KET.org	ket.org	3791383091	Unknown
5	10:11:40	FVBCLD354...		Block	none	none	IP Protectio...	WestWind DI	www.westwinddi.com	1082477833	Unknown
6	10:11:39	FVBCLD354...		Alert	none	none	Bot Verifica...	receptionbaseline.ed...	receptionbaseline.educ...	5186413233	Unknown
7	10:11:38	FVBCLD392...		Monitor	/SeguroDeAu...	autos.elpotosi...	Cookie Sec...	autos	autos.elpotosi.com.mx	6136600265	Unknown
8	10:11:37	FVBCLD354...		Block	/wp-admin/a...	www.ket.org	Known Atta...	KET.org	ket.org	3791383091	Unknown
9	10:11:36	FVBCLD354...		Block	none	none	IP Protectio...	WestWind DI	www.westwinddi.com	1082477833	Unknown
10	10:11:35	FVBCLD392...		Alert	none	none	Bot Verifica...	receptionbaseline.ed...	receptionbaseline.educ...	5186413233	Unknown

Finally, you can also go to *Log View > FortiWeb > Event*. This includes FortiWeb Cloud event logs, as well as five new fields:

- *user_id*, which corresponds to the *User ID* column
- *login_user*, which corresponds to the *User* column
- *app_id*, which corresponds to the *Application ID* column
- *app_name*, which corresponds to the *Application Name* column
- *app_domain*, which corresponds to the *Application Domain* column

See an example of *Log View > FortiWeb > Event* below.

All FortiWeb - Last 1 Hour - 09:31:51 To 10:31:50											
#	▼ Date/Time	Device ID	Level	Action	Message	Application Domain	Application ID	Application Name	Application Domain	Application ID	User
1	10:25:32	FVBCLD3546102879	INFO	EDIT	The endpoint settin...	www.2.mydemolab.ga	2623501487	MyApp10			1245460@qq...
2	10:25:31	FVBCLD3920584167	INFO	SYSTEM	Health check statu...	www.2.mydemolab.ga	2623501487	MyApp10			1245460@qq...
3	10:25:30	FVBCLD3920584167	INFO	EDIT	The DNS Status of ...	agents.etimad.pk	9462702209	Agent Etimad			1245460@qq...
4	10:25:29	FVBCLD3920584167	INFO	LOGIN	User logged in fro...	NULL	NULL	NULL			1245460@qq...
5	10:25:28	FVBCLD3920584167	INFO	EDIT	The endpoint settin...	www.2.mydemolab.ga	2623501487	MyApp10			1245460@qq...
6	10:25:27	FVBCLD3920584167	INFO	SYSTEM	Health check statu...	www.2.mydemolab.ga	2623501487	MyApp10			1245460@qq...
7	10:25:26	FVBCLD3920584167	INFO	EDIT	The DNS Status of ...	agents.etimad.pk	9462702209	Agent Etimad			1245460@qq...
8	10:25:25	FVBCLD3920584167	INFO	LOGIN	User logged in fro...	NULL	NULL	NULL			1245460@qq...
9	10:25:24	FVBCLD3920584167	INFO	EDIT	The endpoint settin...	www.2.mydemolab.ga	2623501487	MyApp10			1245460@qq...
10	10:25:23	FVBCLD3920584167	INFO	SYSTEM	Health check statu...	www.2.mydemolab.ga	2623501487	MyApp10			1245460@qq...

Support parsing and addition of third-party application logs to the SIEM DB



This information is also available in the FortiAnalyzer 7.4 Administration Guide:

- [SIEM log parsers](#)

FortiAnalyzer supports parsing and addition of third-party application logs to the SIEM DB.

There are two types of log parsers:

- Predefined parsers
- Custom parsers

You can find predefined SIEM log parsers in *Incidents & Events > Log Parser > Log Parsers*. There are predefined parsers for all fabric related Fortinet products. Predefined Apache and Nginx web server log parsers have also been added to this list of predefined SIEM log parsers.

The configuration of each SIEM log parser (predefined and custom) is specific to the ADOM that you are in. Any changes to an existing parser or any newly added parsers will only affect the ADOM that the action was completed in. Ensure you are in the correct ADOM when working with log parsers.

The following information is provided in this topic:

- To view the log parsers: on page 71
- The Apache web server log parser: on page 72
- The Nginx web server log parser: on page 73
- To import a custom log parser: on page 74
- To validate if the original logs can be parsed: on page 74
- To assign devices to a log parser: on page 75

To view the log parsers:

1. In *Incidents & Events > Log Parser > Log Parsers*, select *Show Predefined* and/or *Show Custom* to show the available log parsers in the table view.

Each predefined log parser is assigned a default *Application* and *Category*. Custom log parsers are assigned a default *Application* and *Category* when they are imported.

The # column is the priority of each Siem Log_Parser from highest (1) to lowest. By default, newly imported custom log parsers are assigned the lowest priority. To change the priority, click the left edge of the row and drag and drop it to the desired area in the table. See below.

#	Name	Application	Category	Status
1	Apache Log Parser	Apache Web Server	Web Server	Enabled
2	FortiADC Log Parser	FortiADC	Fortinet Device	Enabled
3	FortiAuthenticator Log Parser	FortiAuthenticator	Fortinet Device	Enabled
4	FortiCache Log Parser	FortiCache	Fortinet Device	Enabled
5	FortiClient Log Parser	FortiClient	Fortinet Device	Enabled
6	FortiDDoS Log Parser	FortiDDoS	Fortinet Device	Enabled
7	FortiDeceptor Log Parser	FortiDeceptor	Fortinet Device	Enabled
8	FortiEDR Log Parser	FortiEDR	Fortinet Device	Enabled
9	FortiFirewall Log Parser	FortiFirewall	Fortinet Device	Enabled
10	FortiGate Log Parser	FortiGate	Fortinet Device	Enabled

2. Double-click a log parser in the table view to display all related SIEM logs. Alternatively, you can select the checkbox for the log parser and click *View Logs*.

Log View for FortiGate Log Parser

Last 1 Hour 15:51:21 To 16:51:20

#	Date/Time	Data Source ID	Event Message
267	16:51:00	FWF61ETK18005133	Virtual WAN Link SLA information(Health Check SLA status. SLA failed due to being over the performance)
27	16:51:03	FWF61ETK18005133	Virtual WAN Link SLA information(Health Check SLA status. SLA failed due to being over the performance)
28	16:51:03	FWF61ETK18005133	Virtual WAN Link SLA information(Health Check SLA status. SLA failed due to being over the performance)
29	16:51:03	FWF61ETK18005133	Virtual WAN Link SLA information(Health Check SLA status. SLA failed due to being over the performance)
30	16:51:03	FWF61ETK18005359	SDWAN SLA notification(SD-WAN health-check member changed state.)
31	16:51:03	FWF61ETK18005359	SDWAN SLA notification(SD-WAN health-check member changed state.)
32	16:51:03	FWF61ETK18005359	SDWAN SLA notification(SD-WAN health-check member changed state.)
33	16:51:03	FWF61ETK18005359	SDWAN SLA notification(SD-WAN health-check member changed state.)
34	16:51:03	FWF61ETK18005359	SDWAN SLA notification(Health Check SLA status. SLA failed due to being over the performance)
35	16:51:03	FWF61ETK18005359	SDWAN SLA notification(Health Check SLA status. SLA failed due to being over the performance)
36	16:51:03	FWF61ETK18005359	
37	16:51:03	FWF61ETK18005359	
38	16:51:03	FWF61ETK18005359	SDWAN SLA notification(Health Check SLA status. SLA failed due to being over the performance)
39	16:51:02	FGVM02TM23000735	
40	16:51:02	FG101E4Q17003922	FortiGuard hostname unresolvable(unable to resolve FortiGuard hostname)
41	16:51:02	FG101E4Q17003922	Automation stitch triggered(stitch-FortiAnalyzer Connection Down is triggered.)
42	16:51:02	FWF61ETK18005359	SDWAN SLA notification(Health Check SLA status. SLA failed due to being over the performance)
43	16:51:02	FWF61ETK18005359	SDWAN SLA notification(SD-WAN health-check member changed state.)
44	16:51:02	FWF61ETK18005359	SDWAN SLA notification(SD-WAN health-check member changed state.)
45	16:51:02	FWF61ETK18005359	Virtual WAN Link internet service passive quality information(Internet Service Passive Metrics)
46	16:51:02	FWF61ETK18005359	Virtual WAN Link internet service passive quality information(Internet Service Passive Metrics)
47	16:51:02	FWF61ETK18005359	SDWAN SLA information(Health Check SLA status.)
48	16:51:02	FWF61ETK18005359	Virtual WAN Link internet service passive quality information(Internet Service Passive Metrics)
49	16:51:02	FWF61ETK18005359	Virtual WAN Link internet service passive quality information(Internet Service Passive Metrics)
50	16:51:02	FWF61ETK18005359	Virtual WAN Link internet service passive quality information(Internet Service Passive Metrics)

3. Select the checkbox for one or more log parsers in the table to perform an action from the toolbar. For example, you can *Export* in JSON format, *Enable*, *Disable*, *Delete*, or *Validate* the log parsers. Some actions will be unavailable if they cannot be performed on the selected log parser(s).

- You cannot *Disable* a log parser if it is assigned and in use.
- You cannot *Delete* predefined log parsers. They can only be disabled.
- You cannot perform the *Validate* action on more than one parser at a time.

FPC-FAZ1

ADOM: root

admin

Dashboard

Device Manager

FortiView

Log View

Fabric View

Incidents & Events

Event Monitor

Handlers

Incidents

Threat Hunting

Log Parser

Outbreak Alerts

Reports

System Settings

Assigned Parsers

Log Parsers

Import

Export

View Logs

Delete

Enable

Disable

Validate

Show Predefined

Show Custom

Search...

	#	Name	Application	Category	Status
<input checked="" type="checkbox"/>	1	Apache Log Parser	Apache Web Server	Web Server	Enabled
<input checked="" type="checkbox"/>	2	FortiADC Log Parser	FortiADC	Fortinet Device	Enabled
<input type="checkbox"/>	3	FortiAuthenticator Log Parser	FortiAuthenticator	Fortinet Device	Enabled
<input type="checkbox"/>	4	FortiCache Log Parser	FortiCache	Fortinet Device	Enabled
<input type="checkbox"/>	5	FortiClient Log Parser	FortiClient	Fortinet Device	Enabled
<input type="checkbox"/>	6	FortiDDoS Log Parser	FortiDDoS	Fortinet Device	Enabled
<input type="checkbox"/>	7	FortiDeceptor Log Parser	FortiDeceptor	Fortinet Device	Enabled
<input type="checkbox"/>	8	FortiEDR Log Parser	FortiEDR	Fortinet Device	Enabled
<input type="checkbox"/>	9	FortiFirewall Log Parser	FortiFirewall	Fortinet Device	Enabled
<input type="checkbox"/>	10	FortiGate Log Parser	FortiGate	Fortinet Device	Enabled

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The Apache web server log parser:

Go to *Incidents & Events > Log Parser > Log Parsers* to find the Apache Log Parser in the predefined SIEM log parsers. Double-click the parser to view the related logs.

FPC-FAZ1

ADOM: root

>_

admin

Dashboard

Device Manager

FortiView

Log View

Fabric View

Incidents & Events

Event Monitor

Handlers

Incidents

Threat Hunting

Log Parser

Outbreak Alerts

Reports

System Settings

Assigned Parsers

Log Parsers

Import

Export

View Logs

Delete

Enable

Disable

Validate

Show Predefined

Show Custom

Search...

	#	Name	Application	Category	Status
<input checked="" type="checkbox"/>	1	Apache Log Parser	Apache Web Server	Web Server	Enabled
<input type="checkbox"/>	2	FortiADC Log Parser	FortiADC	Fortinet Device	Enabled
<input type="checkbox"/>	3	FortiAuthenticator Log Parser	FortiAuthenticator	Fortinet Device	Enabled
<input type="checkbox"/>	4	FortiCache Log Parser	FortiCache	Fortinet Device	Enabled
<input type="checkbox"/>	5	FortiClient Log Parser	FortiClient	Fortinet Device	Enabled
<input type="checkbox"/>	6	FortiDDoS Log Parser	FortiDDoS	Fortinet Device	Enabled
<input type="checkbox"/>	7	FortiDeceptor Log Parser	FortiDeceptor	Fortinet Device	Enabled
<input type="checkbox"/>	8	FortiEDR Log Parser	FortiEDR	Fortinet Device	Enabled
<input type="checkbox"/>	9	FortiFirewall Log Parser	FortiFirewall	Fortinet Device	Enabled
<input type="checkbox"/>	10	FortiGate Log Parser	FortiGate	Fortinet Device	Enabled

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The Apache logs are also parsed in *Log View > Fabric > All*. You can filter by Data Parser Name = Apache Log Parser.

All

Last 7 Days | Mar 22 To Mar 29

Data Parser Name = "Apache Log Parser"

Add Filter

#	Date/Time	Data Source ID	Event Message	Data
1	10:31:23	SYSLOG-0A029559	10.2.0.250 - [29/Mar/2023:10:31:05 -0700] "GET /favicon.ico HTTP/1.1" 404 489 "http://10.2.149.8/10.2.149.89/"	<div>Data</div> <div>Data Parser NameApache Log Parser</div> <div>Data Source IDSYSLOG-0A029559</div> <div>Data Source Nameuser-shifter</div> <div>Data Source TypeApache</div> <div>Data Test Timestamp10:30:23</div>
2	10:30:23	SYSLOG-0A029559	/10.2.149.89/" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/111.0.0.0 Safari/537.36"	<div>Event</div> <div>Event Message/10.2.149.89/" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/111.0.0.0 Safari/537.36"</div>
3	00:00:10	SYSLOG-0A029559	AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 10.2.149.8	<div>Host</div> <div>Host NameUser Engine ID0</div> <div>Useruser-shifter</div> <div>0</div>
4	00:00:10	SYSLOG-0A029559	[Wed Mar 29 00:00:01.121897 2023] [mpm_eventnotice] [pid 2904315:tid 140086293559168] AH00049: Comm	<div>Application</div> <div>Application Serviceapache access</div>
5	03:27:00:00	SYSLOG-0A029559	[Mon Mar 27 00:00:09.403066 2023] [core:notice] [pid 2904315:tid 140086293559168] AH00094: Comm	<div>Others</div> <div>ADOM ID0</div>
6	03:27:00:00	SYSLOG-0A029559	[Mon Mar 27 00:00:09.403066 2023] [mpm_eventnotice] [pid 2904315:tid 140086293559168] AH00049: Comm	<div>Data</div> <div>Data ID721022897434705261</div>
7	03:26:00:00	SYSLOG-0A029559	AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 10.2.149.8	
8	03:26:00:00	SYSLOG-0A029559	[Sun Mar 26 00:00:11.574064 2023] [mpm_eventnotice] [pid 2904315:tid 140086293559168] AH00493: Comm	
9	03:25:00:00	SYSLOG-0A029559	[Sat Mar 25 00:00:16.155107 2023] [core:notice] [pid 2904315:tid 140086293559168] AH00094: Comm	
10	03:25:00:00	SYSLOG-0A029559	[Sat Mar 25 00:00:16.155082 2023] [mpm_eventnotice] [pid 2904315:tid 140086293559168] AH00489: Comm	
11	03:25:00:00	SYSLOG-0A029559	[Sat Mar 25 00:00:16.155082 2023] [core:notice] [pid 2904315:tid 140086293559168] AH00094: Comm	
12	03:24:00:00	SYSLOG-0A029559	[Fri Mar 24 00:00:06.745261 2023] [core:notice] [pid 2904315:tid 140086293559168] AH00094: Comm	

The Nginx web server log parser:

Go to *Incidents & Events > Log Parser > Log Parsers* to find the Nginx Log Parser in the predefined SIEM log parsers. Double-click the parser to view the related logs.

FPC-FAZ1

ADOM: root

admin

Dashboard

Device Manager

FortiView

Log View

Fabric View

Incidents & Events

Event Monitor

Handlers

Incidents

Threat Hunting

Log Parser

Outbreak Alerts

Reports

System Settings

Assigned Parsers

Log Parsers

Import

Export

View Logs

Delete

Enable

Disable

Validate

Show Predefined

Show Custom

Search...

	#	Name	Application	Category	Status
<input type="checkbox"/>	16	FortiNDR Log Parser	FortiNDR	Fortinet Device	Enabled
<input type="checkbox"/>	17	FortiProxy Log Parser	FortiProxy	Fortinet Device	Enabled
<input type="checkbox"/>	18	FortiSOAR Log Parser	FortiSOAR	Fortinet Device	Enabled
<input type="checkbox"/>	19	FortiSandbox Log Parser	FortiSandbox	Fortinet Device	Enabled
<input type="checkbox"/>	20	FortiSwitch Log Parser	FortiSwitch	Fortinet Device	Enabled
<input type="checkbox"/>	21	FortiWeb Log Parser	FortiWeb	Fortinet Device	Enabled
<input checked="" type="checkbox"/>	22	Nginx Log Parser	Nginx Web Server	Web Server	Enabled
<input type="checkbox"/>	23	System Log Parser	Generic System	Generic System	Enabled
<input type="checkbox"/>	24	Ubuntu Syslog Parser	Ubuntu	Ubuntu System	Enabled
<input type="checkbox"/>	25	Windows XML Event Log Parser	Windows	Windows System	Enabled

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The Nginx logs are also parsed in *Log View > Fabric > All*. You can filter by Data Parser Name = Nginx Log Parser.

#	Date/Time	Data Source ID	Event Message	Data
1	10:30:14	SYSLOG-0A029558	10.2.0.250 - [29/Mar/2023:10:30:02 -0700] "GET /favicon.ico HTTP/1.1" 304 0 197 "http://10.2.149.81"	<ul style="list-style-type: none"> Data <ul style="list-style-type: none"> Data Parser Name: Nginx Log Parser Data Source ID: SYSLOG-0A029558 Data Source Name: ubuntu-88 Data Source Type: Nginx Data Timestamp: 2023-03-29 09:30:02 Date/Time: 10:30:14 Event <ul style="list-style-type: none"> Event Message: 10.2.0.250 - [29/Mar/2023:10:30:02 -0700] "GET /favicon.ico HTTP/1.1" 304 0 197 "http://10.2.149.81" Host <ul style="list-style-type: none"> Host Name: ubuntu-88 UEBA Endpoint ID: 0 User <ul style="list-style-type: none"> UEBA User ID: 0 Others <ul style="list-style-type: none"> ADOM OID: 382 Data UID: 7236023856779398144
2	10:30:14	SYSLOG-0A029558	10.2.0.250 - [29/Mar/2023:10:30:02 -0700] "GET / HTTP/1.1" 304 0 197 "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36"	
3	03-23 16:17	SYSLOG-0A029558	10.2.0.250 - [23/Mar/2023:16:16:56 -0700] "GET / HTTP/1.1" 304 0 197 "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36"	
4	03-23 16:17	SYSLOG-0A029558	10.2.0.250 - [23/Mar/2023:16:16:54 -0700] "GET / HTTP/1.1" 304 0 197 "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36"	
5	03-23 08:54	SYSLOG-0A029558	10.2.0.250 - [23/Mar/2023:08:54:05 -0700] "GET / HTTP/1.1" 304 0 197 "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36"	
6	03-23 08:54	SYSLOG-0A029558	10.2.0.250 - [23/Mar/2023:08:54:04 -0700] "GET /favicon.ico HTTP/1.1" 304 0 197 "http://10.2.149.81"	
7	03-23 08:54	SYSLOG-0A029558	10.2.0.250 - [23/Mar/2023:08:54:04 -0700] "GET / HTTP/1.1" 304 0 197 "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36"	

To import a custom log parser:

1. In *Incidents & Events > Log Parser > Log Parsers*, click *Import*.
The *Import Log Parser* dialog displays.
2. Drag and drop or select the log parser.
The log parser must be in the correct format as a JSON file to meet the requirements checked during the import.
3. Click *OK*.
Once added, the custom log parser will be included in the table view when *Show Custom* is selected.

FPC-FAZ1

ADOM: root

admin

Dashboard

Device Manager

FortiView

Log View

Fabric View

Incidents & Events

- Event Monitor
- Handlers
- Incidents
- Threat Hunting
- Log Parser
- Outbreak Alerts
- Reports
- System Settings

Assigned Parsers

Log Parsers

Import

Export

View Logs

Delete

Enable

Disable

Validate

Show Predefined

Show Custom

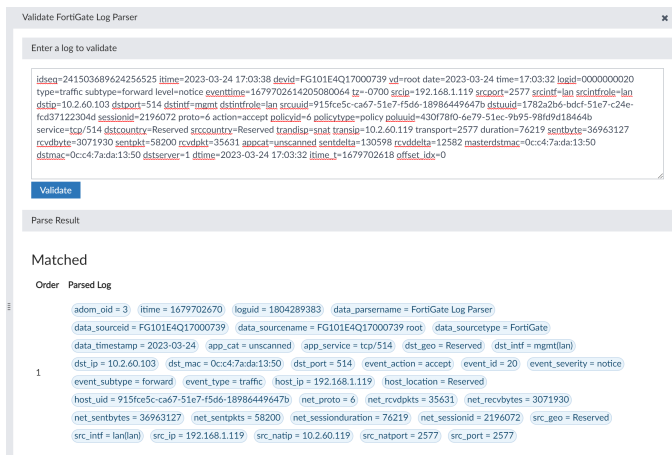
Search...

	#	Name	Application	Category	Status
<input type="checkbox"/>	26	Custom Log Parser	FortiADC	Fortinet Device	Enabled

Fortinet

To validate if the original logs can be parsed:

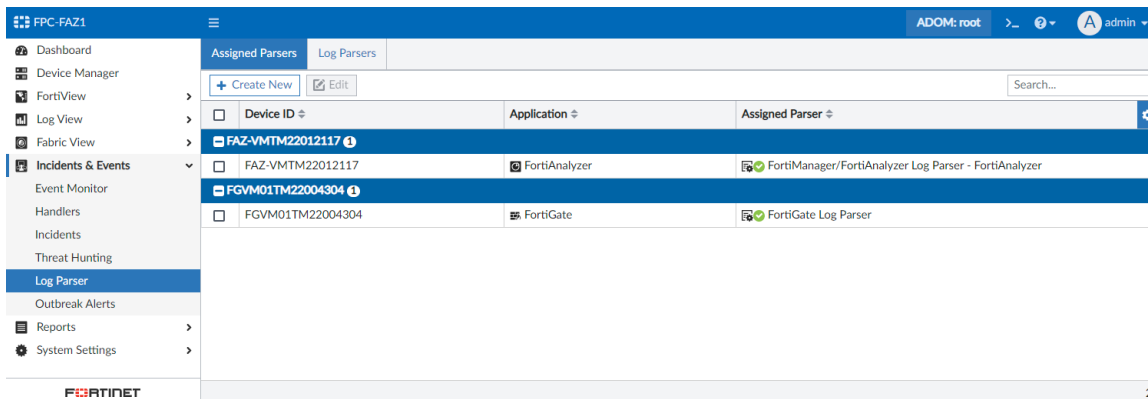
1. In *Incidents & Events > Log Parser > Log Parsers*, select the checkbox for a log parser.
2. Click *Validate*.
The *Validate Log Parser* pane opens.
3. Enter a log to validate and click *Validate*.
A *Parse Result* will display in the same pane.



To assign devices to a log parser:

1. Go to *Incidents & Events > Log Parser > Assigned Parsers*.

The existing log parser assignments display in a table view.



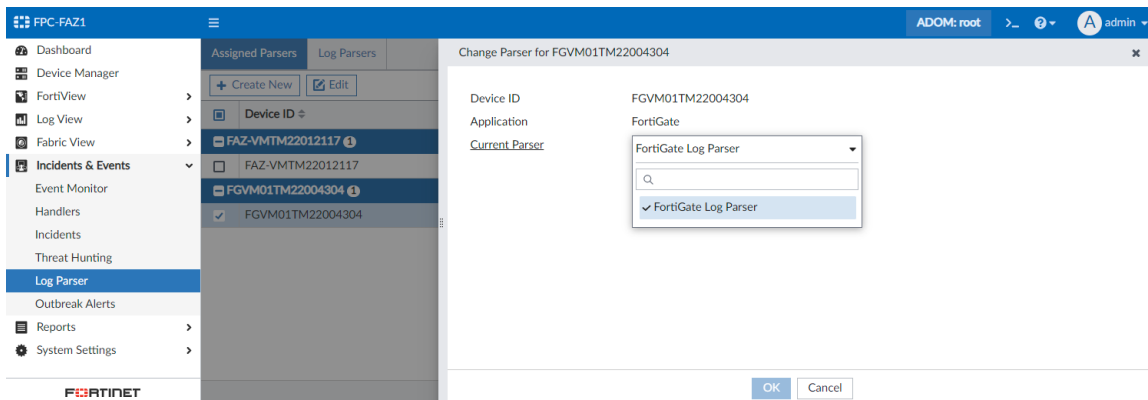
2. Select the checkbox for an existing log parser assignment and click *Edit*.

Alternatively, you can click *Create New* to create a new log parser assignment.

The *Change Parser* pane displays.

3. From the *Current Parser* dropdown, select the log parser to assign the device/application to.

4. Click *OK*.



Per-ADOM log rate

To better fit multi-tenancy deployment, FortiAnalyzer provides a per-ADOM log rate that the administrator can monitor to prevent one ADOM/customer from impacting the stability of the entire unit.

An additional diskquota log has been introduced to inform the administrator when an ADOM reaches the configured quota threshold.

To view the logs in the GUI:

A log message for ADOM performance statistics (log rate) is added to both FortiAnalyzer Event logs and Application logs. FortiAnalyzer Event logs will generate this message for all ADOMs, while Application logs will generate this message for the current ADOM only.

For example, see the below log messages in *Log View > FortiAnalyzer > Event*:

#	↓Date/Time	Device ID	Sub Type	User	Message	Operation	Performed On	Changes
12	17:34:39	FAZ-VMTM22011	system	system	System performance status: log rate low (0%), lograte=67/sec.	Perf stats	Local system	Show system performance stats.
13	17:29:48	FAZ-VMTM22011	system	system	Adom FortiDeceptor performance status: lograte=0/sec	Perf stats	Local system	Show adom performance stats.
14	17:29:48	FAZ-VMTM22011	system	system	Adom FortiAnalyzer performance status: lograte=0/sec	Perf stats	Local system	Show adom performance stats.
15	17:29:48	FAZ-VMTM22011	system	system	Adom FortiFirewall performance status: lograte=0/sec	Perf stats	Local system	Show adom performance stats.
16	17:29:48	FAZ-VMTM22011	system	system	Adom FortiProxy performance status: lograte=0/sec	Perf stats	Local system	Show adom performance stats.
17	17:29:48	FAZ-VMTM22011	system	system	Adom Syslog performance status: lograte=0/sec	Perf stats	Local system	Show adom performance stats.
18	17:29:48	FAZ-VMTM22011	system	system	Adom FortiManager performance status: lograte=0/sec	Perf stats	Local system	Show adom performance stats.
19	17:29:48	FAZ-VMTM22011	system	system	Adom FortiAuthenticator performance status: lograte=0/sec	Perf stats	Local system	Show adom performance stats.
20	17:29:48	FAZ-VMTM22011	system	system	Adom FortiSandbox performance status: lograte=0/sec	Perf stats	Local system	Show adom performance stats.
21	17:29:48	FAZ-VMTM22011	system	system	Adom root performance status: lograte=76/sec	Perf stats	Local system	Show adom performance stats.
22	17:29:48	FAZ-VMTM22011	system	system	Adom FortiCarrier performance status: lograte=0/sec	Perf stats	Local system	Show adom performance stats.
23	17:29:48	FAZ-VMTM22011	system	system	Adom FortiDoS performance status: lograte=0/sec	Perf stats	Local system	Show adom performance stats.
24	17:29:48	FAZ-VMTM22011	system	system	Adom FortiWeb performance status: lograte=0/sec	Perf stats	Local system	Show adom performance stats.
25	17:29:48	FAZ-VMTM22011	system	system	Adom FortiCache performance status: lograte=0/sec	Perf stats	Local system	Show adom performance stats.
26	17:29:48	FAZ-VMTM22011	system	system	Adom FortiMail performance status: lograte=0/sec	Perf stats	Local system	Show adom performance stats.
27	17:29:48	FAZ-VMTM22011	system	system	Adom FortiClient performance status: lograte=0/sec	Perf stats	Local system	Show adom performance stats.
28	17:29:48	FAZ-VMTM22011	system	system	Adom FortiFirewallCarrier performance status: lograte=0/sec	Perf stats	Local system	Show adom performance stats.

For example, see the below log messages in *Log View > FortiAnalyzer > Application*:

#	↓Date/Time	Device ID	User	Sub Type	Event Type	Action	Message	Description
1	17:29:48	FAZ-VMTM22011	system	system	perf-stats	Stats	Adom root performance status: lograte=76/sec	Adom performance statistics notice
2	16:29:48	FAZ-VMTM22011	system	system	perf-stats	Stats	Adom root performance status: lograte=67/sec	Adom performance statistics notice
3	15:29:48	FAZ-VMTM22011	system	system	perf-stats	Stats	Adom root performance status: lograte=60/sec	Adom performance statistics notice
4	14:29:48	FAZ-VMTM22011	system	system	perf-stats	Stats	Adom root performance status: lograte=73/sec	Adom performance statistics notice
5	13:29:48	FAZ-VMTM22011	system	system	perf-stats	Stats	Adom root performance status: lograte=59/sec	Adom performance statistics notice
6	12:15:59	FAZ-VMTM22011	system	system	perf-stats	Stats	Adom root performance status: lograte=46/sec	Adom performance statistics notice
7	11:15:59	FAZ-VMTM22011	system	system	perf-stats	Stats	Adom root performance status: lograte=58/sec	Adom performance statistics notice
8	09:25:40	FAZ-VMTM22011	system	system	perf-stats	Stats	Adom root performance status: lograte=54/sec	Adom performance statistics notice
9	08:25:40	FAZ-VMTM22011	system	system	perf-stats	Stats	Adom root performance status: lograte=55/sec	Adom performance statistics notice
10	07:25:40	FAZ-VMTM22011	system	system	perf-stats	Stats	Adom root performance status: lograte=61/sec	Adom performance statistics notice
11	06:25:40	FAZ-VMTM22011	system	system	perf-stats	Stats	Adom root performance status: lograte=64/sec	Adom performance statistics notice

A log message is also added for ADOM archive usage to Local Application Logs. See below example taken from *Log View > FortiAnalyzer > Application*:

#	↓Date/Time	Device ID	Sub Type	User	Message	Event Type	Description
1	2023-03-21 20:37:29	FAZ-VMTM23003736	diskquota	system	Disk usage for Adom Lab is approaching the delete threshold 90% of total 50.	disk-usage	Disk quota warning
2	2023-03-21 20:36:48	FAZ-VMTM23003736	system	system	Adom Lab performance status: log rate low (0%), lograte=1056/sec	perf-stats	Adom performance s
3	2023-03-21 20:31:48	FAZ-VMTM23003736	system	system	Adom Lab performance status: log rate low (0%), lograte=59/sec	perf-stats	Adom performance s
4	2023-03-21 20:31:40	FAZ-VMTM23003736	logdev	system	Did not receive any log from device eFGT-HA_FGVULV[FGVULVTM2100009	logging-status	Device offline
5	2023-03-21 20:23:56	FAZ-VMTM23003736	system	system	Adom Lab performance status: log rate low (0%), lograte=57/sec	perf-stats	Adom performance s
6	2023-03-21 20:18:56	FAZ-VMTM23003736	system	system	Adom Lab performance status: log rate low (0%), lograte=56/sec	perf-stats	Adom performance s
7	2023-03-21 20:13:56	FAZ-VMTM23003736	system	system	Adom Lab performance status: log rate low (0%), lograte=56/sec	perf-stats	Adom performance s
8	2023-03-21 20:08:56	FAZ-VMTM23003736	system	system	Adom Lab performance status: log rate low (0%), lograte=58/sec	perf-stats	Adom performance s
9	2023-03-21 20:03:56	FAZ-VMTM23003736	system	system	Adom Lab performance status: log rate low (0%), lograte=57/sec	perf-stats	Adom performance s
10	2023-03-21 19:58:56	FAZ-VMTM23003736	system	system	Adom Lab performance status: log rate low (0%), lograte=52/sec	perf-stats	Adom performance s
11	2023-03-21 19:58:47	FAZ-VMTM23003736	logdev	system	Did not receive any log from device eFGT-HA_FGVULV[FGVULVTM2100009	logging-status	Device offline

To set the interval for the ADOM performance statistics logs:

CLI configuration is added for the interval time to log performance state.

In the FortiAnalyzer CLI, enter the following command:

```
config system locallog setting
    set log-interval-adom-perf-stats <integer>
end
```

For the `log-interval-adom-perf-stats` setting, enter the interval in minutes. The range should be 5-2880. Enter 0 to disable the logs.

Example logs:

Event log message for ADOM performance statistics (log rate):

```
id=7231962960615178247 bid=865533 dvid=1040 itime=1683822591 euid=1 epid=1 dsteuid=1
dstepid=1 log_id="0001010093" subtype="system" type="event" level="notice"
time="09:29:51" date="2023-05-11" user="system" action="Stats" msg="Adom root
performance status: lograte=54/sec" userfrom="system" desc="Adom performance
statistics notice" operation="Perf stats" performed_on="Local system" changes="Show
adom performance stats." lograte=54 logratelimit=0 tz="-0700" devid="FAZ-VMTM22011553"
devname="eFAZ-227"
```

Application log message for ADOM performance statistics (log rate):

```
id=7207521362594958664 bid=101707 dvid=1059 itime=1678131838 euid=1 epid=1 dsteuid=1
dstepid=1 vd="fortinet" logid="220004" type="appevent" subtype="system"
eventtype="perf-stats" action="Stats" level="notice" date="2023-03-06" time="11:43:58"
user="system" user_from="system" desc="Adom performance statistics notice" msg="Adom
fortinet performance status: log rate low (0%), lograte=49/sec" tz="-0800"
adom="fortinet" operation="Perf stats" lograte=49 performed_on="Local system"
changes="Show adom performance stats." logratelimit=0 devid="FAZ-VMTM23003360"
devname="eFAZ-54"
```

Log message for ADOM archive usage:

```
id=7207519107737128256 bid=100933 dvid=1059 itime=1678131313 euid=1 epid=1 dsteuid=1
dstepid=1 vd="fortinet" logid="220003" type="appevent" subtype="diskquota"
eventtype="disk-usage" level="warning" date="2023-03-06" time="11:35:14" user="system"
user_from="system" desc="Disk quota warning" msg="Disk usage for Adom fortinet is
approaching the delete threshold 90% of total 50.0MB. Archive Usage at 196.7%(29.5MB)
and Analytics Usage at 41.6%(14.6MB)." tz="-0800" adom="fortinet" diskusage=88
devid="FAZ-VMTM23003360" devname="eFAZ-54"
```

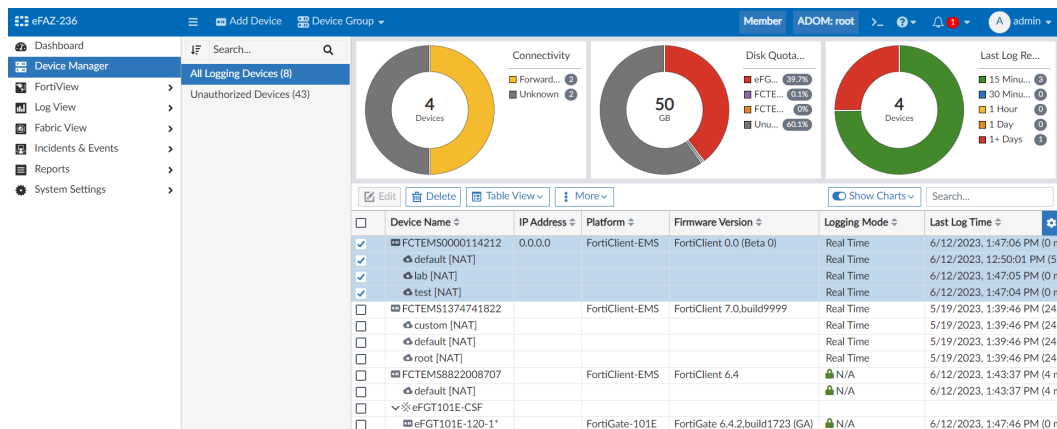
Support EMS multitenancy via FortiAnalyzer ADOMs - 7.4.1

With FortiClient EMS multitenancy, you can create multiple sites, providing granular access to different sites and separating endpoint data and configurations.

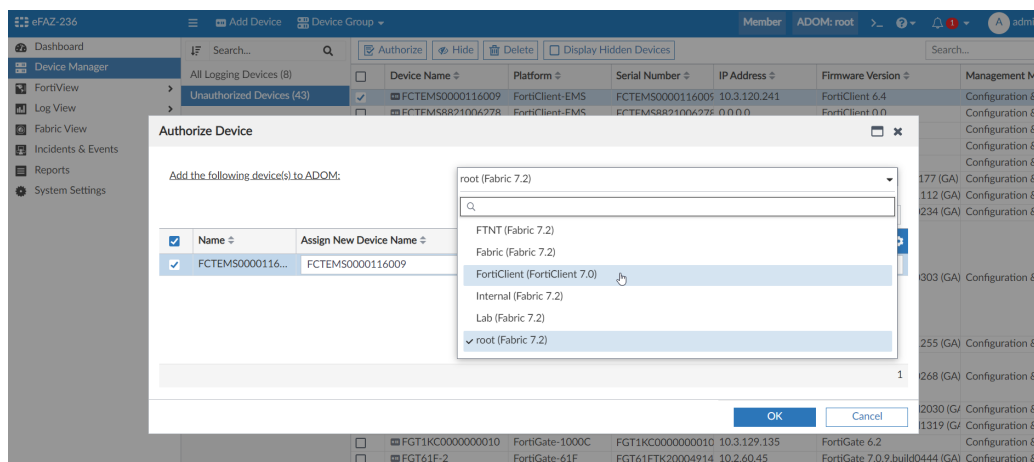
FortiAnalyzer has added support to EMS multitenancy by providing the following:

- Each log is mapped to its corresponding site using the `vd` log field
- EMS sites can be assigned to different FortiAnalyzer ADOMs

EMS logs (with multiple FCT logs) can be received by FortiAnalyzer directly with required fields added.



FortiClient can be promoted into Fabric ADOM or FortiClient ADOM in FortiAnalyzer.



The FortiClient logs from multitenancy logs can be converted to `vd=sitenam` when receiving logs.

#	Date/Time	Registered to Device	Virtual Domain	Site	User	Sub Type	Host Name	Message
1	13:54:01	FCTEM50000114212	test	test	Win7QA	endpoint	Win7-x32-PC	Endpoint Ext Log to FAZ
2	13:52:01	FCTEM50000114212	test	test	Win7QA	endpoint	Win7-x32-PC	Endpoint Ext Log to FAZ
3	13:51:47	FCTEM50000114212	lab	lab	Win7QA	endpoint	Win7QA-PC	Endpoint Ext Log to FAZ
4	13:51:01	FCTEM50000114212	test	test	Win7QA	endpoint	Win7-x32-PC	Endpoint Ext Log to FAZ
5	13:49:47	FCTEM50000114212	lab	lab	Win7QA	endpoint	Win7QA-PC	Endpoint Ext Log to FAZ
6	13:49:01	FCTEM50000114212	test	test	Win7QA	endpoint	Win7-x32-PC	Endpoint Ext Log to FAZ
7	13:48:47	FCTEM50000114212	lab	lab	Win7QA	endpoint	Win7QA-PC	Endpoint Ext Log to FAZ
8	13:48:13	FCTEM50000114212	default	default	ftc2	update	QA2-PC	Update was successful
9	13:48:09	FCTEM50000114212	default	default	ftc2	update	QA2-PC	Update was successful to the given version for the
10	13:48:09	FCTEM50000114212	default	default	ftc2	update	QA2-PC	Update was successful to the given version for the
11	13:48:01	FCTEM50000114212	test	test	Win7QA	endpoint	Win7-x32-PC	Endpoint Ext Log to FAZ
12	13:46:47	FCTEM50000114212	lab	lab	Win7QA	endpoint	Win7QA-PC	Endpoint Ext Log to FAZ
13	13:46:01	FCTEM50000114212	test	test	Win7QA	endpoint	Win7-x32-PC	Endpoint Ext Log to FAZ
14	13:45:01	FCTEM50000114212	test	test	Win7QA	endpoint	Win7-x32-PC	Endpoint Ext Log to FAZ

The multitenancy logs can be assigned to different ADOMs based on its VDOM when the *ADOM Mode* is set to *Advanced*.

Name	Version	From ADOM
eFGT101E-120-1 FortiGate-101E	6.4	root
eFGT-210 FortiGate-VM64	7.2	Internal
Evan-FGT101F-02 FortiGate-101F	6.4	FTNT
eFGT-80E FortiGate-80E	7.2	Fabric
FCTEM50000114212 FortiClient-EMS, 0.0.0.0	0.0	root
FCTEM50000114212[default] VDOM	0.0	root
FCTEM50000114212[lab] VDOM	0.0	root
FCTEM50000114212[test] VDOM	0.0	root
FCTEM58822008707 FortiClient-EMS	6.4	root
FCTEM58822008707[default] VDOM	6.4	root
FCTEM51374741822 FortiClient-EMS	7.0	root
FCTEM51374741822[default] VDOM	7.0	root

Two new fields are added to FortiClient logs:

- vd
- regdevname

The FortiClient logs can be filtered by these fields in *Log View*. For example, see below.

#	Date/Time	Registered to Device	Virtual Domain	User	Sub Type	Host Name	Message
1	13:58:01	FCTEM50000114212	test	Win7QA	endpoint	Win7-x32-PC	Endpoint Ext Log to FAZ
2	13:57:48	FCTEM50000114212	lab	Win7QA	endpoint	Win7QA-PC	Endpoint Ext Log to FAZ
3	13:56:48	FCTEM50000114212	lab	Win7QA	endpoint	Win7QA-PC	Endpoint Ext Log to FAZ
4	13:56:01	FCTEM50000114212	test	Win7QA	endpoint	Win7-x32-PC	Endpoint Ext Log to FAZ
5	13:55:48	FCTEM50000114212	lab	Win7QA	endpoint	Win7QA-PC	Endpoint Ext Log to FAZ
6	13:55:01	FCTEM50000114212	test	Win7QA	endpoint	Win7-x32-PC	Endpoint Ext Log to FAZ
7	13:54:48	FCTEM50000114212	lab	Win7QA	endpoint	Win7QA-PC	Endpoint Ext Log to FAZ
8	13:54:01	FCTEM50000114212	test	Win7QA	endpoint	Win7-x32-PC	Endpoint Ext Log to FAZ
9	13:52:47	FCTEM50000114212	lab	Win7QA	endpoint	Win7QA-PC	Endpoint Ext Log to FAZ
10	13:52:01	FCTEM50000114212	test	Win7QA	endpoint	Win7-x32-PC	Endpoint Ext Log to FAZ
11	13:51:47	FCTEM50000114212	lab	Win7QA	endpoint	Win7QA-PC	Endpoint Ext Log to FAZ
12	13:51:01	FCTEM50000114212	test	Win7QA	endpoint	Win7-x32-PC	Endpoint Ext Log to FAZ
13	13:49:47	FCTEM50000114212	lab	Win7QA	endpoint	Win7QA-PC	Endpoint Ext Log to FAZ
14	13:49:01	FCTEM50000114212	test	Win7QA	endpoint	Win7-x32-PC	Endpoint Ext Log to FAZ
15	13:48:47	FCTEM50000114212	lab	Win7QA	endpoint	Win7QA-PC	Endpoint Ext Log to FAZ
16	13:48:01	FCTEM50000114212	test	Win7QA	endpoint	Win7-x32-PC	Endpoint Ext Log to FAZ
17	13:46:47	FCTEM50000114212	lab	Win7QA	endpoint	Win7QA-PC	Endpoint Ext Log to FAZ

Total logs for analytics: 27 days 21 hours.

50 /Page 1 2 3 4 5 ^0.226 Second

Logging support for FortiCASB - 7.4.1

FortiAnalyzer v7.4.1 recognizes FortiCASB devices as device type.

FortiAnalyzer can now receive, store, and display logs from authorized FortiCASB devices in *Log View*.

To configure FortiCASB logging to FortiAnalyzer:

1. In the FortiCASB GUI, go to *Overview > Fabric Integration > Add New FortiAnalyzer*.
2. Configure the following settings for the FortiAnalyzer device and click *Add New FortiAnalyzer*:
 - *Device Name*
 - *Device IP Address*
 - *Device Serial Number*

FortiCloud Services Support

FortiCASB Version 23.2.b

Overview / Fabric Integration / Add New FortiAnalyzer

Add New FortiAnalyzer

1 Fill In Info 2 Done

Device Name *
TestDevice

Device IP Address *
10.0.0.1

Device Serial Number *
FAZ-VM7M

Alert To Be Sent To FortiAnalyzer *
☐ Data Analysis

Add New FortiAnalyzer Cancel

3. In the FortiAnalyzer GUI, go to *Device Manager* in the root ADOM.

The FortiCASB displays in the *Unauthorized Devices* list.

4. Select the FortiCASB device and click *Authorize*.

The FortiCASB device now displays in *All Logging Devices* list.

FAZVM64-AWS

Dashboard Device Manager FortiView Log View Fabric View Incidents & Events Reports System Settings

Search...

All Logging Devices (1)

Unauthorized Devices (51)

Connectivity: Unknown 1

Disk Quota: FCASB... 0.2% Unused 99.8%

Last Log Rec... 15 Minutes 0, 30 Minutes 0, 1 Hour 0, 1 Day 1, 1+ Days 0

1 Devices

50 GB

1 Devices

Edit Delete Table View More

Show Charts Search...

Device Name	IP Address	Platform	HA Status	Description	Firmware Version	Serial N
FCASBR		FortiCASB-VM			FortiCASB 7.0	FCASBR00

The FortiCASB logs display in *Log View > FortiCASB*.

FAZVM64-AWS

ADOM: root

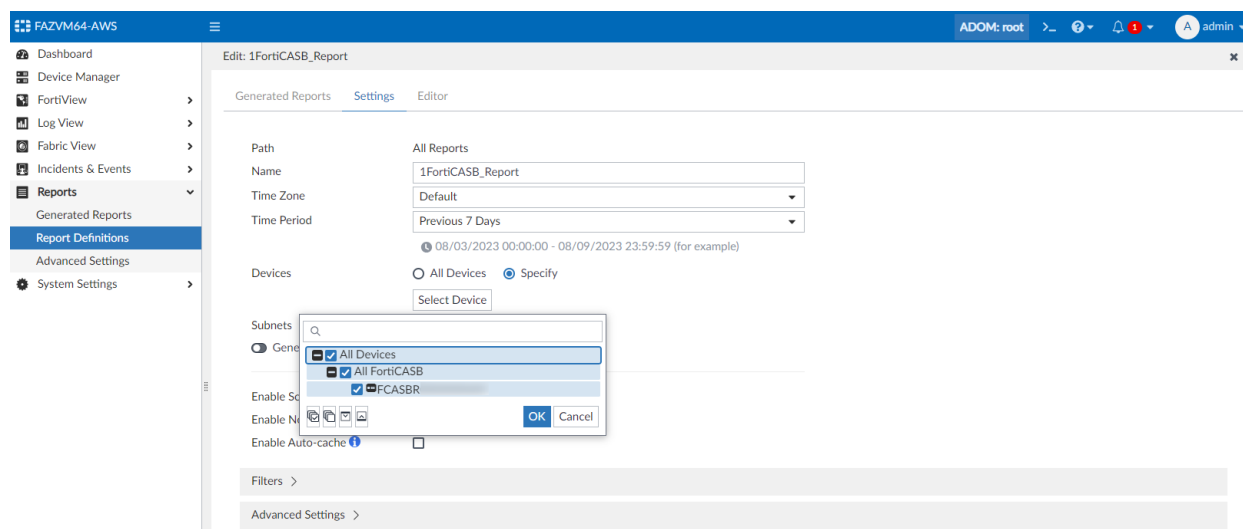
admin

Data Leak Prevention

FCASBR Last 1 Day Aug 09 To Aug 10

#	Date/Time	Device ID	Type	Sub Type	Level	Source IP	Policy ID
1	08-09 19:18	FCASBR	dlp	Personal Identity In	4		288554
2	08-09 19:18	FCASBR	dlp	Personal Identity In	4		288590
3	08-09 19:18	FCASBR	dlp	null	4		288480
4	08-09 19:18	FCASBR	dlp	Personal Identity In	4		288588
5	08-09 19:18	FCASBR	dlp	Personal Identity In	4		288560
6	08-09 19:18	FCASBR	dlp	Personal Identity In	4		288550
7	08-09 19:18	FCASBR	dlp	null	4		288479
8	08-09 19:18	FCASBR	dlp	Personal Identity In	4		288571
9	08-09 19:18	FCASBR	dlp	null	4		288484

The FortiCASB device can now be used in *Reports*.

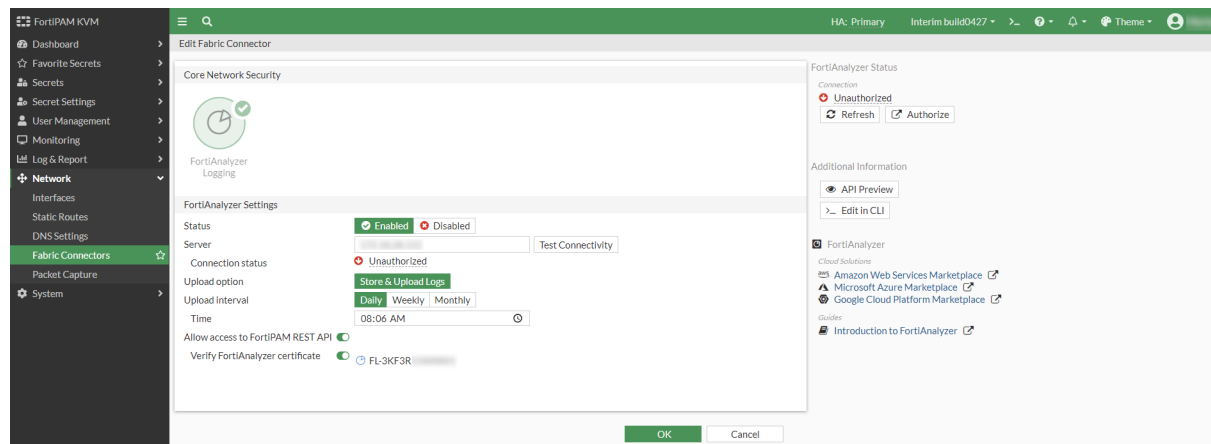


Logging support for FortiPAM - 7.4.1

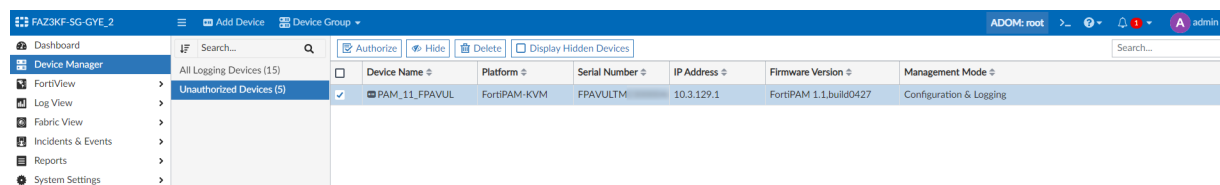
FortiAnalyzer v7.4.1 recognizes FortiPAM devices as device type.

To configure FortiPAM logging to FortiAnalyzer:

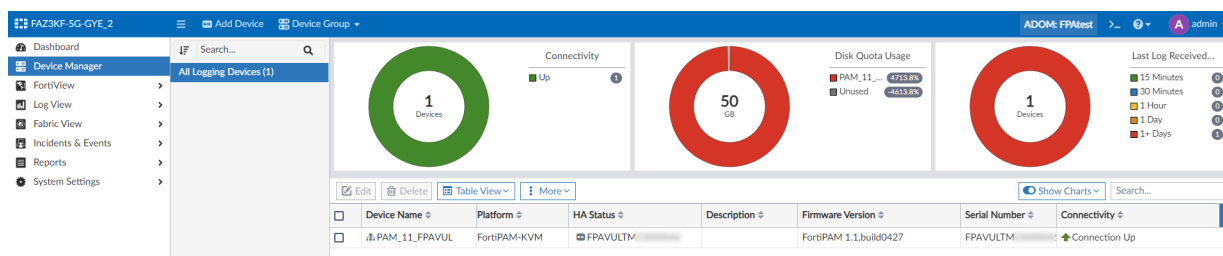
1. In the FortiPAM GUI, go to *Network > Fabric Connectors*, and edit *FortiAnalyzer Logging*. In the *Server* field, enter the FortiAnalyzer IP address.



2. In the FortiAnalyzer GUI root ADOM, go to *Device Manager > Unauthorized Devices*. Select the FortiPAM device and click *Authorize*.



The FortiPAM device is now authorized in *Device Manager*.



3. To view logs from the FortiPAM device, go to **Log View > FortiPAM**.

The screenshot shows the FortiAnalyzer Log View for FortiPAM. The left sidebar is the same as the dashboard. The main area displays a table of log entries with columns: #, Date/Time, Device ID, Type, Sub Type, Protocol, Log ID, Virtual Domain, Destination IP, Session ID, Device Name, Device Time, WAN In, and WAN Out. The table contains 9 entries, all of type 'traffic' and 'forward'.

#	Date/Time	Device ID	Type	Sub Type	Protocol	Log ID	Virtual Domain	Destination IP	Session ID	Device Name	Device Time	WAN In	WAN Out
1	06-22 09:44	FPAVULTM	traffic	forward	17	0000000013	root		3666057766	FPAVULTM	2019-06-04 1		
2	06-22 09:44	FPAVULTM	traffic	forward	17	0000000013	root		3666057760	FPAVULTM	2019-06-04 1		
3	06-22 09:44	FPAVULTM	traffic	forward	17	0000000013	root		3666057765	FPAVULTM	2019-06-04 1		
4	06-22 09:44	FPAVULTM	traffic	forward	17	0000000013	root		3666057762	FPAVULTM	2019-06-04 1		
5	06-22 09:44	FPAVULTM	traffic	forward	17	0000000013	root		3666057761	FPAVULTM	2019-06-04 1		
6	06-22 09:44	FPAVULTM	traffic	forward	17	0000000013	root		3666057763	FPAVULTM	2019-06-04 1		
7	06-22 09:44	FPAVULTM	traffic	forward	17	0000000013	root		3666057758	FPAVULTM	2019-06-04 1		
8	06-22 09:44	FPAVULTM	traffic	forward	17	0000000013	root		3666057757	FPAVULTM	2019-06-04 1		
9	06-22 09:44	FPAVULTM	traffic	forward	17	0000000013	root		3666057752	FPAVULTM	2019-06-04 1		

You can create a FortiPAM report in FortiAnalyzer.

The screenshot shows the FortiAnalyzer Report Definitions page. The left sidebar is the same as the dashboard. The main area displays a table of reports with columns: Report Name, Format, Report Execution Time, Data Range, Devices, and Status. The table contains one entry: FortiPAM_report1-2023-07-10-1639-0700_49703, HTML PDF XML CSV JSON, 2023-07-10 16:39:50 PDT, 2023-04-01 00:00:00 - 2023-07-09 23:59:59 PDT, PAM_11_FPAVUL[root], and 3s.

Report Name	Format	Report Execution Time	Data Range	Devices	Status
FortiPAM_report1-2023-07-10-1639-0700_49703	HTML PDF XML CSV JSON	2023-07-10 16:39:50 PDT	2023-04-01 00:00:00 - 2023-07-09 23:59:59 PDT	PAM_11_FPAVUL[root]	3s

Logging support for FortiToken Cloud - 7.4.1

FortiAnalyzer can now receive, store, and display logs from authorized FortiToken Cloud devices in **Log View**.

To configure FortiToken Cloud logging on FortiAnalyzer:

1. Configure the FortiToken Cloud device to send logs to FortiAnalyzer.
2. In the FortiAnalyzer GUI, go to **Device Manager** in the root ADOM.

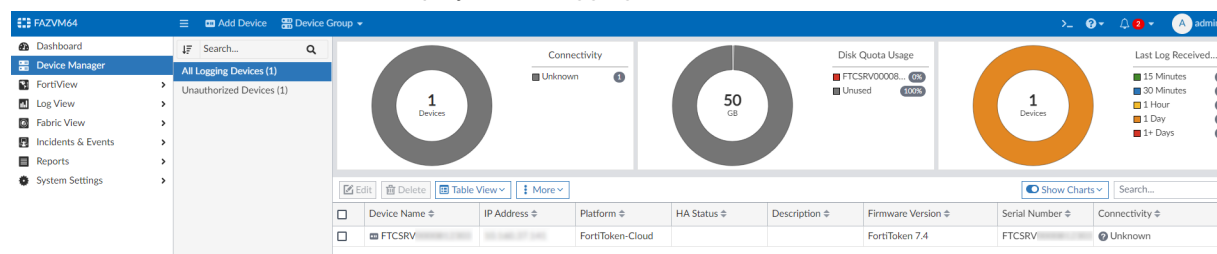
The FortiToken Cloud displays in the **Unauthorized Devices** list.

The screenshot shows the FortiAnalyzer Device Manager. The left sidebar is the same as the dashboard. The main area displays a table of unauthorized devices with columns: Device Name, Platform, Serial Number, IP Address, Firmware Version, and Management Mode. The table contains one entry: FTCSRVR, FortiToken-Cloud, FTCSRVR, 10.10.10.10, FortiToken 7.4, and Configuration & Logging.

Device Name	Platform	Serial Number	IP Address	Firmware Version	Management Mode
FTCSRVR	FortiToken-Cloud	FTCSRVR	10.10.10.10	FortiToken 7.4	Configuration & Logging

3. Select the FortiToken Cloud device and click **Authorize**.

The FortiToken Cloud device now displays in *All Logging Devices* list.



The FortiToken Cloud logs display in *Log View > FortiToken*.

#	Date/Time	Level	Device ID	Action	Message	User Interface
1	08-09 16:17		FTCSR...	fac_notification		
2	08-09 16:17		FTCSR...	sent ftm push		
3	08-09 16:17		FTCSR...	fac_notification		
4	08-09 16:17		FTCSR...	sent ftm push		
5	08-09 16:17		FTCSR...	sent ftm push		
6	08-09 16:17		FTCSR...	fac_notification		

The FortiToken Cloud device can now be used in *Reports*.

Support parsing and addition of third-party application logs to the SIEM DB in JSON format - 7.4.1



This information is also available in the FortiAnalyzer 7.4 Administration Guide:

- [SIEM log parsers](#)

If third-party logs are in JSON format, the default Windows, Apache, and Nginx log parsers can parse generic field data from them. These default log parsers can also be updated in the GUI, if needed.

In *Incidents & Events > Log Parser > Assigned Parsers*, the third-party devices are automatically assigned to the appropriate log parser according to their logs in JSON format.

The *Windows Event Log Parser* can parse Windows logs in JSON format. For example, Event_Profile, Event_Severity, and Host_Name. The complete content of JSON is inserted into Event_Msg field for future reference, if needed.

The *Nginx Log Parser* can parse Nginx server logs in JSON format. For example, Data_TimeStamp, Host_Name, and HTTP_Refferrer. The complete content of JSON is inserted into Event_Msg field for future reference, if needed.

The *Apache Log Parser* can parse Apache server logs in JSON format. For example, Host_IP, Host_Name, and Application_Service. The complete content of JSON is inserted into Event_Msg field for future reference, if needed.

#	Date/Time	Data Source ID	Event Message	Event Type	Event Severity	Source IP
1	10:27:48	SYSLOG-0A0295BD	[\"time\":\"2023-09-18T10:26:32.618Z\", \"process\":\"163\"]			
2	10:26:58	SYSLOG-0A0295BD	[\"time\":\"2023-09-18T10:25:41.136Z\", \"process\":\"111\"]			
3	10:26:48	SYSLOG-0A0295BD	[\"time\":\"2023-09-18T10:25:32.789Z\", \"process\":\"134\"]			
4	10:26:48	SYSLOG-0A0295BD	[Mon Sep 18 10:25:32.800306 2023] [authz_core:error] [pid]			
5	00:01:25	SYSLOG-0A0295BD	[Mon Sep 18 00:00:05.997405 2023] [core:notice] [pid 9691]			
6	00:01:25	SYSLOG-0A0295BD	[Mon Sep 18 00:00:05.997388 2023] [mpm_event:notice] [p]			
7	00:01:25	SYSLOG-0A0295BD	AH00558: apache2: Could not reliably determine the server			
8	00:01:25	SYSLOG-0A0295BD	[Mon Sep 18 00:00:05.974458 2023] [mpm_event:notice] [p]			
9	09-17 00:01	SYSLOG-0A0295BD	[Sun Sep 17 00:00:05.067607 2023] [core:notice] [pid 9691]			
10	09-17 00:01	SYSLOG-0A0295BD	[Sun Sep 17 00:00:05.067592 2023] [mpm_event:notice] [pk]			
11	09-17 00:01	SYSLOG-0A0295BD	AH00558: apache2: Could not reliably determine the server			
12	09-17 00:01	SYSLOG-0A0295BD	[Sun Sep 17 00:00:05.060064 2023] [mpm_event:notice] [pk]			
13	09-16 00:01	SYSLOG-0A0295BD	[Sat Sep 16 00:00:10.151577 2023] [core:notice] [pid 9691]			
14	09-16 00:01	SYSLOG-0A0295BD	[Sat Sep 16 00:00:10.151563 2023] [mpm_event:notice] [pid]			
15	09-16 00:01	SYSLOG-0A0295BD	AH00558: apache2: Could not reliably determine the server			
16	09-16 00:01	SYSLOG-0A0295BD	[Sat Sep 16 00:00:10.135016 2023] [mpm_event:notice] [pid]			
17	09-15 00:01	SYSLOG-0A0295BD	[Fri Sep 15 00:00:07.727504 2023] [core:notice] [pid 9691]			
18	09-15 00:01	SYSLOG-0A0295BD	[Fri Sep 15 00:00:07.727481 2023] [mpm_event:notice] [pid]			
19	09-15 00:01	SYSLOG-0A0295BD	AH00558: apache2: Could not reliably determine the server			
20	09-15 00:01	SYSLOG-0A0295BD	[Fri Sep 15 00:00:07.707692 2023] [mpm_event:notice] [pid]			
21	09-14 11:45	SYSLOG-0A0295BD	[\"time\":\"2023-09-14T11:44:28.984Z\", \"process\":\"47\"]			
22	09-14 11:44	SYSLOG-0A0295BD	[\"time\":\"2023-09-14T11:43:37.343Z\", \"process\":\"432\"]			

Data

- Data Parser Name: Apache Log Parser
- Data Source ID: SYSLOG-0A0295BD
- Data Source Name: zleo-VM-189
- Data Source Type: Apache
- Data Timestamp: 2023-09-18 10:25:36
- Date/Time: 10:26:48
- Time Stamp: 2023-09-18 10:26:48

Event

- Event Message: [\"time\":\"2023-09-18T10:25:32.789Z\", \"process\":\"134\", \"www/html/server-status\", \"remoteIP\":\"10.2.0.2\", \"request\":\"/server-status\", \"query\":\"\", \"method\":\"GET\", \"Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML like Gecko) Chrome/116.0.0.0 Safari/537.36\"]

Host

- Host IP: 10.2.149.189
- Host Name: zleo-VM-189
- UEBA Endpoint ID: 1

User

- UEBA User ID: 1

Application

- Application Process: 13414
- Application Service: apache-access
- HTTP Method: GET
- HTTP Referrer: /
- HTTP URL: /var/www/html/server-status
- HTTP User Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML like Gecko) Chrome/116.0.0.0 Safari/537.36

Others

- ADOM OID: 3
- Data UID: 7280218709191294977

FortiAnalyzer supports packet header information for FortiWeb traffic log - 7.4.1

FortiAnalyzer supports packet header information for FortiWeb traffic log to centralize the troubleshooting. This feature requires field "set traffic_packet" to be enabled.

To view packet header information for FortiWeb traffic logs on FortiAnalyzer:

1. On FortiAnalyzer, go to *Log View > FortiWeb*.

#	Date/Time	Device ID	Service	Source Name	Destination	Policy	HTTP Method	HTTP Return	Message	Data	Data Format
1	10-18 16:38		https/tls1.2	10.2.0.250	192.168.1.10	Apache	get	200	HTTPS get request from 10.2	b64/brt	
2	10-18 16:38		https/tls1.2	10.2.0.250	192.168.1.10	Apache	get	200	HTTPS get request from 10.2	b64/brt	
3	10-18 16:38		https/tls1.2	10.2.0.250	192.168.1.10	Apache	get	200	HTTPS get request from 10.2	b64/brt	
4	10-18 16:38		https/tls1.2	10.2.0.250	192.168.1.10	Apache	get	200	HTTPS get request from 10.2	b64/brt	
5	10-18 16:38		https/tls1.2	10.2.0.250	192.168.1.10	Apache	get	200	HTTPS get request from 10.2	b64/brt	
6	10-18 16:38		https/tls1.2	10.2.0.250	192.168.1.10	Apache	get	200	HTTPS get request from 10.2	b64/brt	
7	10-18 16:38		https/tls1.2	10.2.0.250	192.168.1.10	Apache	get	404	HTTPS get request from 10.2	b64/brt	
8	10-18 16:38		https/tls1.2	10.2.0.250	192.168.1.10	Apache	get	200	HTTPS get request from 10.2	b64/brt	
9	10-18 16:38		https/tls1.2	10.2.0.250	192.168.1.10	Apache	get	200	HTTPS get request from 10.2	b64/brt	
10	10-17 10:36		http	10.2.64.185	192.168.1.10	Apache	get	200	HTTP get request from 10.2	b64/brt	
11	10-17 10:35		http	10.2.64.185	192.168.1.10	Apache	get	404	HTTP get request from 10.2	b64/brt	
12	10-17 10:35		http	10.2.64.185	192.168.1.10	Apache	get	200	HTTP get request from 10.2	b64/brt	
13	10-17 10:35		http	10.2.64.185	192.168.1.10	Apache	get	200	HTTP get request from 10.2	b64/brt	

Data

- Data Parser Name: Apache Log Parser
- Data Source ID: SYSLOG-0A0295BD
- Data Source Name: zleo-VM-189
- Data Source Type: Apache
- Data Timestamp: 2023-09-18 10:25:36
- Date/Time: 10:26:48
- Time Stamp: 2023-09-18 10:26:48

Event

- Event Message: [\"time\":\"2023-09-18T10:25:32.789Z\", \"process\":\"134\", \"www/html/server-status\", \"remoteIP\":\"10.2.0.2\", \"request\":\"/server-status\", \"query\":\"\", \"method\":\"GET\", \"Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML like Gecko) Chrome/116.0.0.0 Safari/537.36\"]

Host

- Host IP: 10.2.149.189
- Host Name: zleo-VM-189
- UEBA Endpoint ID: 1

User

- UEBA User ID: 1

Application

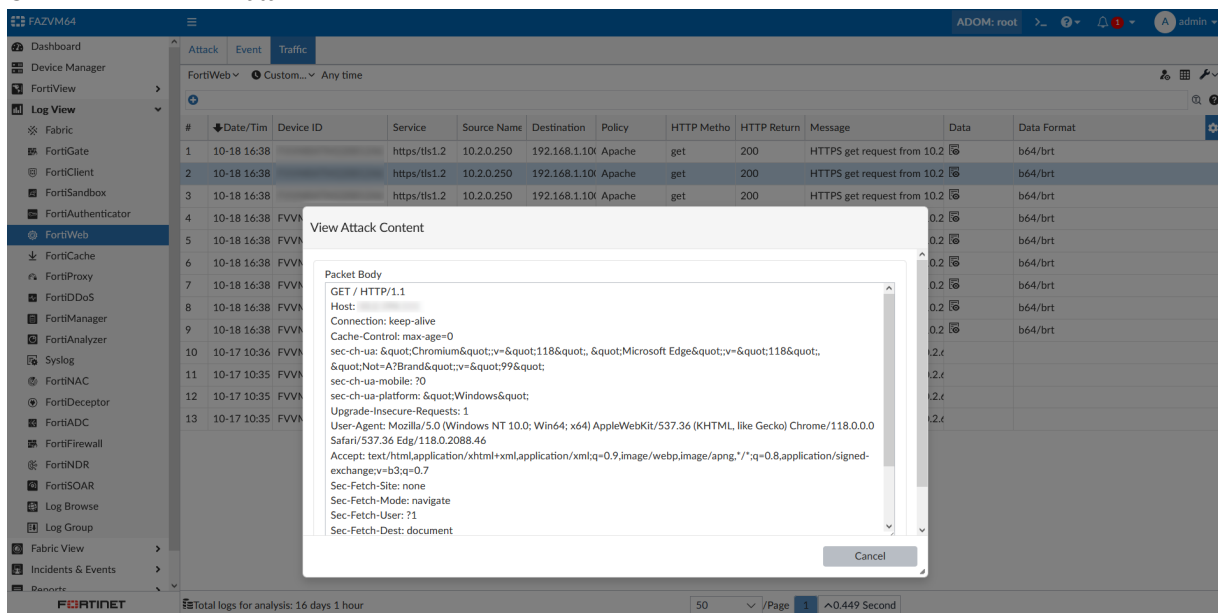
- Application Process: 13414
- Application Service: apache-access
- HTTP Method: GET
- HTTP Referrer: /
- HTTP URL: /var/www/html/server-status
- HTTP User Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML like Gecko) Chrome/116.0.0.0 Safari/537.36

Others

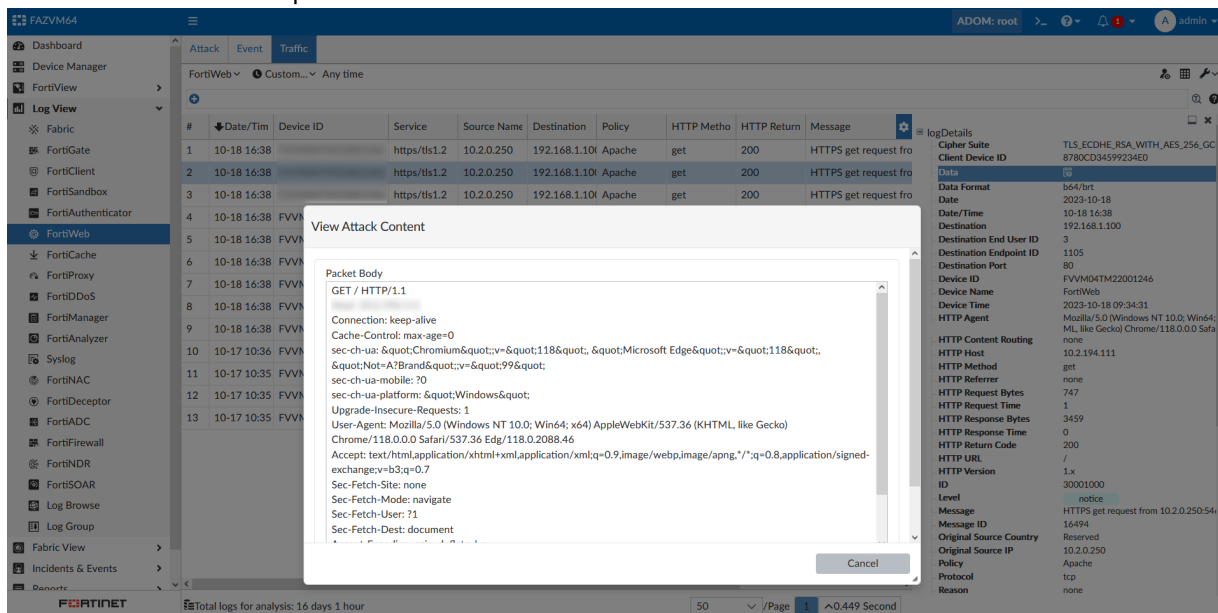
- ADOM OID: 3
- Data UID: 7280218709191294977

2. View the packet header dialog window by one of the following methods:

- Click the icon in the *Data* column.



- Click the icon in the detail panel.



To enable the traffic packet setting on FortiWeb:

- In the FortiWeb CLI, enable the `traffic_packet` setting. For example:

```
config log forti-analyzer
    set traffic_packet enable
end
```

```

FortiWeb # config log forti-analyzer
FortiWeb (forti-analyzer) # set traffic_packet enable

FortiWeb (forti-analyzer) # show
config log forti-analyzer
set status enable
set severity debug
set traffic_packet enable
set fortianalyzer-policy 10.2.194.1
end

FortiWeb (forti-analyzer) # end

```

Support additional log fields for long live session logs - 7.4.2

In FortiAnalyzer 7.4.2, three new log fields are supported for FortiGate long live session logs:

- *Duration Delta*
- *Sent Packet Delta*
- *Received Packet Delta*

These fields are only available when the FortiGate is v7.4.2 or higher.

To view the new fields in the FortiAnalyzer GUI:

1. Go to *Log View > Traffic*.

In the table view, there are three new columns:

- *Duration Delta*
- *Received Packet Delta*
- *Sent Packet Delta*

#	Date/Time	Device ID	Action	Destination IP	Source IP	Policy Type	Application	Duration Delta	Received Packets Delta	Sent Packets Delta
1	15:54:20	FGVM02TM	✓			policy	HTTPS	59	2	2
2	15:54:20	FGVM02TM	✓			policy	HTTPS	59	2	2
3	15:54:20	FGVM02TM	✓			policy	HTTPS	59	2	2
4	15:54:20	FGVM02TM	✓			policy	HTTPS	59	2	2
5	15:54:20	FGVM02TM	✓			policy	HTTPS	59	2	2
6	15:54:20	FGVM02TM	✓			policy	HTTPS	59	2	2
7	15:54:20	FGVM02TM	✓			policy	HTTPS	59	2	2
8	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
9	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
10	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
11	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
12	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
13	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
14	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
15	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
16	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
17	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
18	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
19	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
20	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
21	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
22	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
23	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
24	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2

Total logs for analysis: 60 days 21 hours

50 /Page 1 2 3 4 5 > ^0.716 Second

If these columns are not visible, click the *Column Settings* icon and add the columns to the table view. For more information, see [Customizing displayed columns](#) in the FortiAnalyzer Administration Guide.

- To open the log detail pane, double-click a long live session log in the table.

In the *Others* section, the three new fields are available:

- *Duration Delta*
- *Received Packet Delta*
- *Sent Packet Delta*

The screenshot shows the FortiAnalyzer Log View interface. The main table displays log entries with columns: #, Date/Time, Device ID, Action, Destination IP, Source IP, Policy Type, Application, Duration Delta, Received Packets Delta, and Sent Packets Delta. The table shows 24 entries for FGVM02TM. The right pane shows details for a selected log entry, including Destination Name (http://www.google.com), Destination OS Name (FortiOS), Destination Port (443), Destination Server (0), Primary Destination MAC (08:5b:0e:ec:28:06), Action (accept), Policy ID (1), Policy UUID (1813662c-ef06-51eb-e2b...), Application (HTTPS), Application Category (unscanned), Protocol (6), Service (HTTPS), Data (Duration: 123, Received: 1201310, Received Packets: 904, Sent: 40921, Sent Packets: 361), Type (forward traffic), Sub-Type (forward traffic), and Others (Date: 2024-01-28, Date/Time: 15:54:20, Device Time: 2024-01-28 07:25:03, Device Time Zone: -0800, Duration Delta: 59, Event Time: 1706455503993626060, Policy Name: proxypolicy, Policy Type: policy, Received Delta: 143, Received Packets Delta: 2, Sent Delta: 143, Sent Packets Delta: 2, Time: 07:25:03, Time Stamp: 2024-01-29 15:54:20, dstowner: google.com, logver: 700070367).

#	Date/Time	Device ID	Action	Destination IP	Source IP	Policy Type	Application	Duration Delta	Received Packets Delta	Sent Packets Delta
1	15:54:20	FGVM02TM	✓			policy	HTTPS	59	2	2
2	15:54:20	FGVM02TM	✓			policy	HTTPS	59	2	2
3	15:54:20	FGVM02TM	✓			policy	HTTPS	59	2	2
4	15:54:20	FGVM02TM	✓			policy	HTTPS	59	2	2
5	15:54:20	FGVM02TM	✓			policy	HTTPS	59	2	2
6	15:54:20	FGVM02TM	✓			policy	HTTPS	59	2	2
7	15:54:20	FGVM02TM	✓			policy	HTTPS	59	2	2
8	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
9	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
10	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
11	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
12	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
13	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
14	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
15	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
16	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
17	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
18	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
19	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
20	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
21	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
22	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
23	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2
24	15:54:19	FGVM02TM	✓			policy	HTTPS	59	2	2

The fields are also available when viewing the raw log in FortiAnalyzer.

Log Forwarding

This section lists the new features added to FortiAnalyzer for log forwarding:

- [Fluentd support for public cloud integration on page 89](#)

Fluentd support for public cloud integration

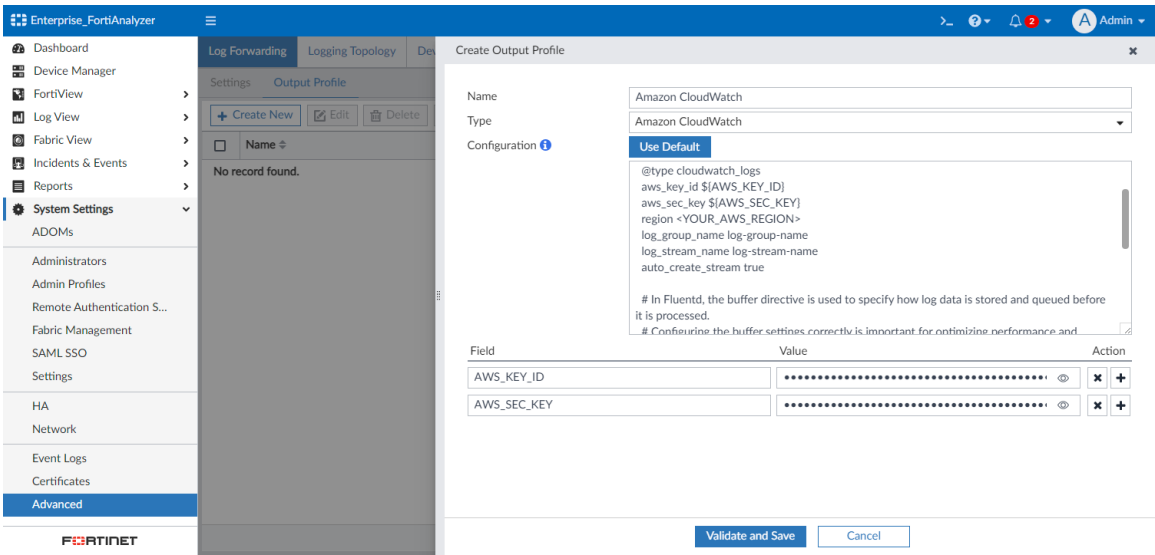
Support is added for log streaming to multiple destinations via Fluentd. This allows log forwarding to public cloud services.

You can create output profiles to configure log forwarding to public cloud services.

To create an output profile for log forwarding:

- Go to *System Settings > Advanced > Log Forwarding > Output Profile*.
- Click *Create New*.

The *Create Output Profile* pane displays.



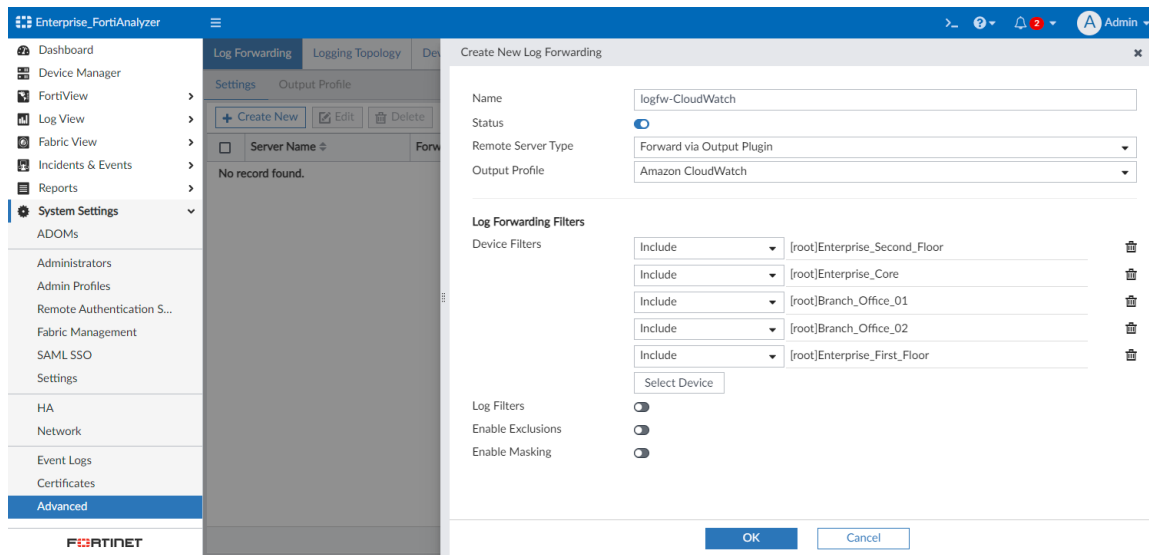
3. Configure the following options:

Name	Enter a name for the output profile.
Type	Select the public cloud service for the output profile.
Configuration	<p>Click <i>Use Default</i> to use the default Fluentd configuration for the selected public cloud service.</p> <p>Alternatively, copy and paste the Fluentd configuration into this field for the selected public cloud service.</p>
Field	<p>Fields will automatically be added into the configuration if a keyword matches the placeholder in the configuration to provide encryption for you to hide the credentials.</p> <p>For example, a password placeholder in the configuration would be "\${password}". In the field, you can define <i>Field</i>: password, <i>Value</i>: actual_password.</p>

4. Click *Validate and Save*.

To configure log forwarding to the output profile:

1. Go to *System Settings > Advanced Log Forwarding > Settings*.
2. Click *Create New*.
The *Create New Log Forwarding* pane displays.



3. Configure the following options:

Name	Enter a name for the remote server.
Status	Enable log forwarding.
Remote Server Type	Select <i>Forward via Output Plugin</i> .
Output Profile	Select the output profile.
Log Forwarding Filters	
Device Filters	Click <i>Select Device</i> , then select the devices whose logs will be forwarded.
Log Filters	Enable to configure filters for the logs that are forwarded.
Enable Exclusions	Enable to configure filter on the logs that are forwarded.
Enable Masking	Enable log field masking, if needed.

4. Click OK.

To troubleshoot the Fluentd connection with the FortiAnalyzer CLI:

1. In the FortiAnalyzer CLI, enter the following command to check the Fluentd write status:

```
FAZVM64 # diagnose test application fwdpluginind 4
Stats for plugin:
lfw_name: logfw-CloudWatch
plugin_name: Amazon CloudWatch
type: AMAZON_CLOUDWATCH
fd-plugin-id: tcp_1_3da_6af_922_1c3
fluentd emit stats(emit_calls|emit_rec_calls|emit_size): 3685, 88677, 0
fluentd write stats(write|retry|rollback): 3, 0, 0
fluentd buffer queue(byte_size|total_queue_size|queue_len|ratio): 49842536,
52433884, 2, 0
fluentd buffer stage(byte_size|stage_length): 4325288, 1
fluentd flush stats(flush_time|slow_flush_count): 0, 0
```

2. In the FortiAnalyzer CLI, enter the following command to determine if the Fluentd log files are present:

```
FAZVM64 # diagnose sql fluentd log-tail
Fluentd log files are not present. Please turn on Fluentd log first if you need to
test it.
```

3. In the FortiAnalyzer CLI, enter the following command to enable Fluentd logging:

```
FAZVM64 # diagnose test application fwdplugind 201 log enable
Warning: This will enable Fluentd logging.
Fluentd requires a restart for changes to take effect. The restart will disrupt
Fluentd's current log handling.
Execute the command again in one minute for the changes to take effect.
FAZVM64 # diagnose test application fwdplugind 201 log enable
Fluentd logging is enabled, Fluentd will be restarted.
```

4. In the FortiAnalyzer CLI, enter the following command again to show the processed events:

```
FAZVM64 # diagnose sql fluentd log-tail
File /drive0/private/fwdplugind/fluentd/logs/faz-td-agent.log, is present, will
open it.
Please press Control+C to exit.
=====
aws_sec_key xxxxxx
region "us-west-2"
log_group_name "Log-Group-Test"
log_stream_name "Log-Stream-test"
auto_create_stream true
@id tcp_1_3da_6af_922_1c3
<buffer tag,time>
@type "memory"
chunk_limit_size 10M
total_limit_size 50M
timekey 5m
timekey_wait 30s
timekey_use_utc true
flush_thread_count 3
flush_at_shutdown true
overflow_action block
retry_forever true
disable_chunk_backup true
</buffer>
</match>
</worker>
</ROOT>
2023-04-24 16:05:20 -0700 [info]: starting fluentd-1.15.2 pid=12376 ruby="2.7.6"
2023-04-24 16:05:20 -0700 [info]: spawn command to main: cmdline=
["/usr/local/fluentd/td-agent/bin/ruby", "-Eascii-8bit:ascii-8bit",
"/usr/sbin/td-agent", "-d", "/drive0/private/fwdplugind/fluentd/faz-td-
agent.pid", "-c", "/drive0/private/fwdplugind/fluentd/faz-td-agent.conf", "-
o", "/drive0/private/fwdplugind/fluentd/logs/faz-td-agent.log", "--log-rotate-
size", "5120000", "--under-supervisor"]
2023-04-24 16:05:20 -0700 [info]: #0 adding match pattern="tcp_1" type="cloudwatch_
logs"
2023-04-24 16:05:21 -0700 [info]: adding source type="monitor_agent"
2023-04-24 16:05:21 -0700 [info]: #0 adding source type="tcp"
2023-04-24 16:05:21 -0700 [info]: #0 starting fluentd worker pid=12390 ppid=12387
worker=0
2023-04-24 16:05:21 -0700 [info]: #0 listening tcp socket bind="127.0.0.1"
port=10000
2023-04-24 16:05:21 -0700 [info]: #0 fluentd worker is now running worker=0
```

Reports

This section lists the new features added to FortiAnalyzer for reports:

- [Report guidance on page 93](#)
- [PCI Security Rating Report on page 95](#)
- [Cyber Threats Assessment Report update on page 96](#)
- [Threat Report update on page 97](#)
- [FSBP Security Rating Report on page 99](#)
- [CIS Controls Security Rating report on page 100](#)
- [Shadow IT Report on page 101](#)
- [FortiADC Report 7.4.1 on page 103](#)
- [ZTNA Report 7.4.1 on page 104](#)
- [FortiEDR Report 7.4.1 on page 105](#)
- [ISO 27001:2022 Compliance Security Rating Report 7.4.1 on page 107](#)
- [Exporting a report with settings 7.4.1 on page 108](#)
- [DLP report 7.4.1 on page 110](#)
- [PCI DSS security rating report update 7.4.1 on page 112](#)
- [HIPAA report 7.4.2 on page 114](#)

Report guidance



This information is also available in the FortiAnalyzer 7.4 Administration Guide:

- [Report guidance](#)

FortiAnalyzer provides many factory default reports that use charts relying on specific log types and log fields to provide valuable output. When running a full report, you may see "No Data" returned in sections if:

- logging was not enabled correctly
- the report element is for a different Device/Log Type
- there are no matching logs

Debugging such scenarios can be time consuming because it requires navigating through charts, macros, and datasets.

To improve the overall reporting experience, a new *Report Guidance* feature has been implemented to provide full visibility for each report element in terms of:

- Device Type (e.g. Fortigate)
- Log Type (e.g. traffic)
- Log Fields (e.g. action, itime)

In short, you can use the *Report Guidance* feature to troubleshoot and determine if FortiAnalyzer has the appropriate Analytics logs available for a report.

To use the Report Guidance feature:

1. Go to **Reports > Report Definitions > All Reports**.
There is a new **Config Recommendation** column.

Title	Language	Cache Status	Time Period	Devices	Schedule	Config Recommendation
Application Reports						
Asset and User Reports						
Compliance Reports						
Fabric Reports						
360 Protection Report	English		Previous 7 Days	All Devices		
Fortinet Email Risk Assessment	English		Previous 7 Days	All Devices		
FortiPortal User Summary Report	English		Previous 7 Days	All Devices		

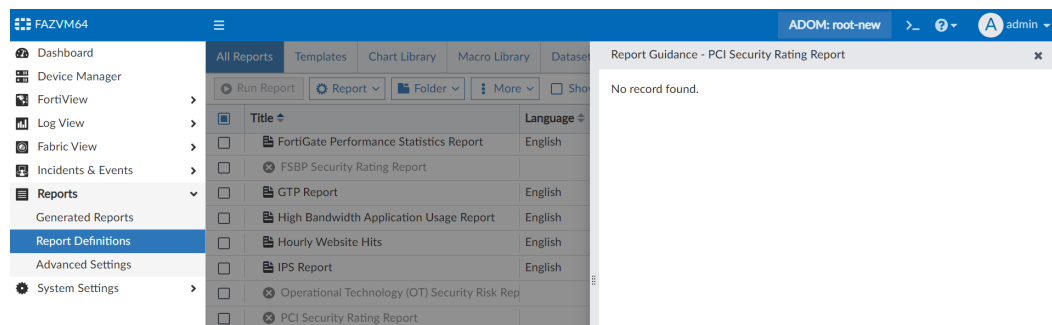
2. Click the icon in the **Config Recommendation** column.
The **Report Guidance** pane opens for that report. This pane provides the **Item Title** (chart or macro name), **Device Type**, **Log Type**, and the relevant **Log Fields** and **Analytics log availability**.

Item Title	Device Type	Log Type	Log Fields	Analytics logs available
Top 10 FGT CPU Utilization Over Time	FortiGate	event	action, bandwidth, cpu, devid, disk, erate, itime, mem, orate, setuprate, slot, subtype, totalsession, trate	Yes
CPU Utilization by Device	FortiGate	event	action, bandwidth, cpu, devid, disk, erate, itime, mem, orate, setuprate, slot, subtype, totalsession, trate	Yes
Top 10 FGT Memory Utilization Over Time	FortiGate	event	action, bandwidth, cpu, devid, disk, erate, itime, mem, orate, setuprate, slot, subtype, totalsession, trate	Yes

The **Report Guidance** pane is available for license-controlled reports, but the report cannot be generated without a valid license.

Item Title	Device Type	Log Type	Log Fields	Analytics logs available
Top OT Zone OS by Asset Count	FortiGate	traffic	app, crscore, devid, dstip, dstport, epid, logid, osname, proto, rcvdbyte, sentbyte, srcip, unauthuser, user, utmaction, vd	No
Top IT Zone OS by Asset Count	FortiGate	traffic	app, crscore, devid, dstip, dstport, epid, logid, osname, proto, rcvdbyte, sentbyte, srcip, unauthuser, user, utmaction, vd	No
OT Zone Application Vulnerabilities by Risk Level	FortiGate	attack	action, attack, attackid, devid, direction, dstip, epid, severity, srccountry, srcip, vd	No

For reports that are not generated with log tables, such as the FSBP/PCI or CIS Security Rating Reports, the *Report Guidance* pane will indicate `No record found`.

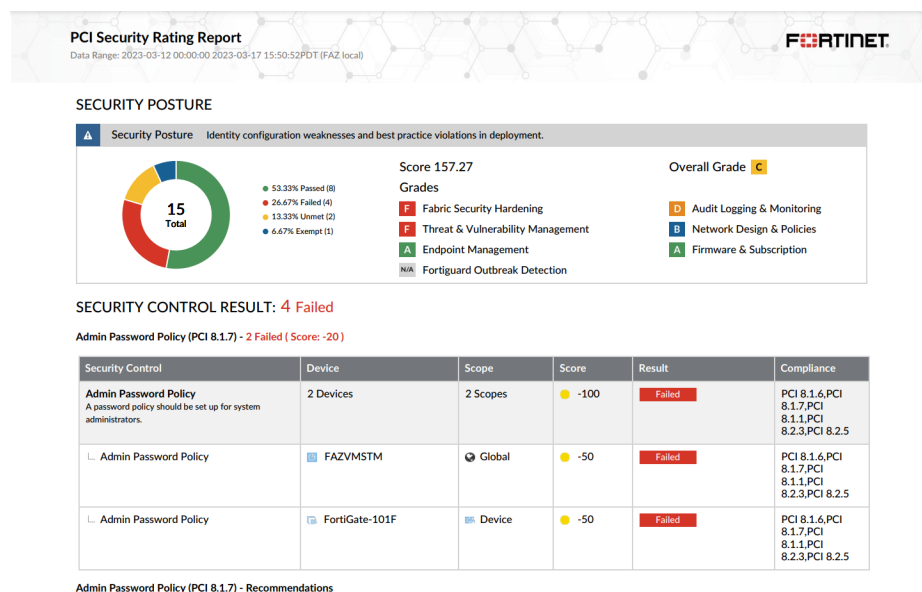


PCI Security Rating Report

A *PCI Security Rating Report* is now available on FortiAnalyzer to optimize the deployed FortiGates in terms of *Security Posture*, *Fabric Coverage*, and *Optimization* based on PCI DSS 3.2 standards. This report consolidates security ratings performed on fabric deployments.

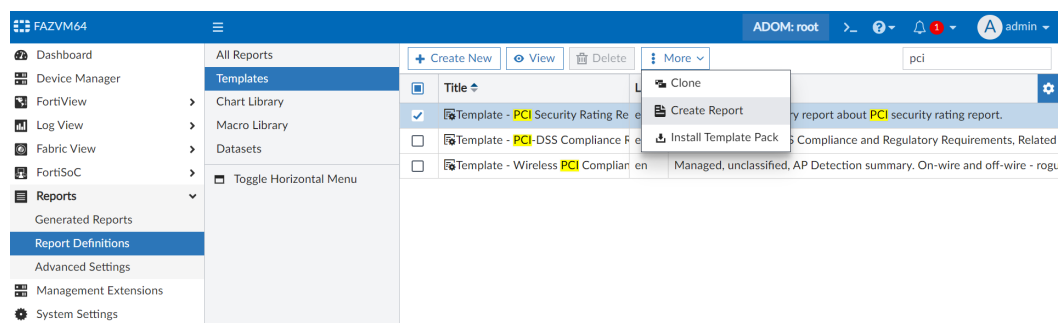
Each category includes the *Failed*, *Unmet*, *Passed*, and *Exempt* security control results. Recommendations are provided as well.

For example, see a sample of page 1 from the report in PDF format below.



To create the report from the template:

1. Go to *Reports > Report Definitions > Templates*.
From the *Preview* column, you can click *PDF* or *HTML* to preview the report in that format.
2. Select the checkbox for *Template - PCI Security Rating Report*.
3. From the *More* dropdown, click *Create Report* to create a report using the template.
You can also click *Clone* to clone the template and make adjustments.



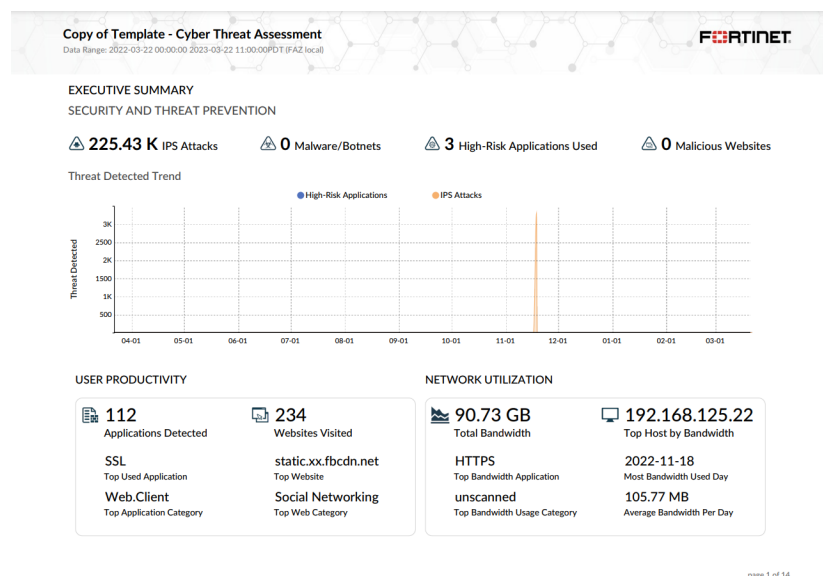
To run the PCI Security Rating Report:

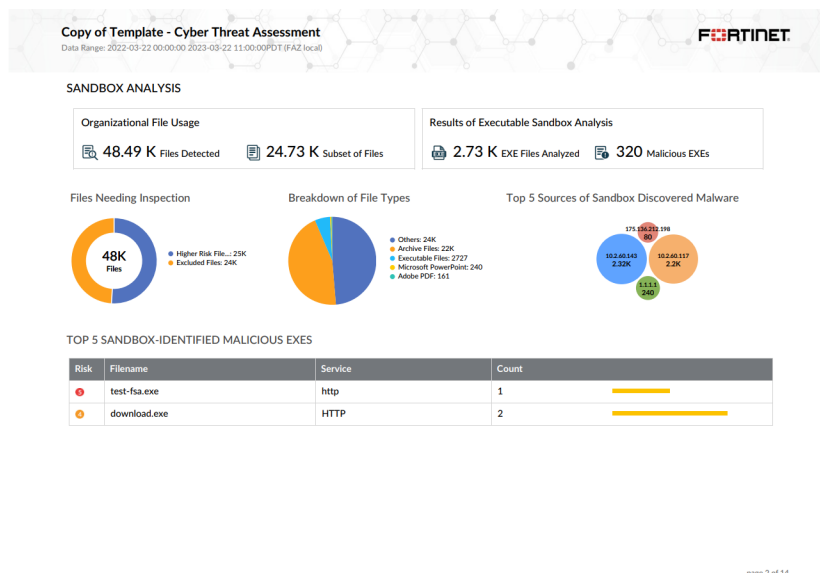
1. Go to *Reports > Report Definitions > All Reports*, and double-click the row for the *PCI Security Rating Report*. The *Edit: PCI Security Rating Report* pane opens.
2. Click *Run Report*.
Once the report is available, click the format to view the report in.

Cyber Threats Assessment Report update

The existing *Cyber Threats Assessment Report* has been updated with new style and content to enhance the visibility of the provided data.

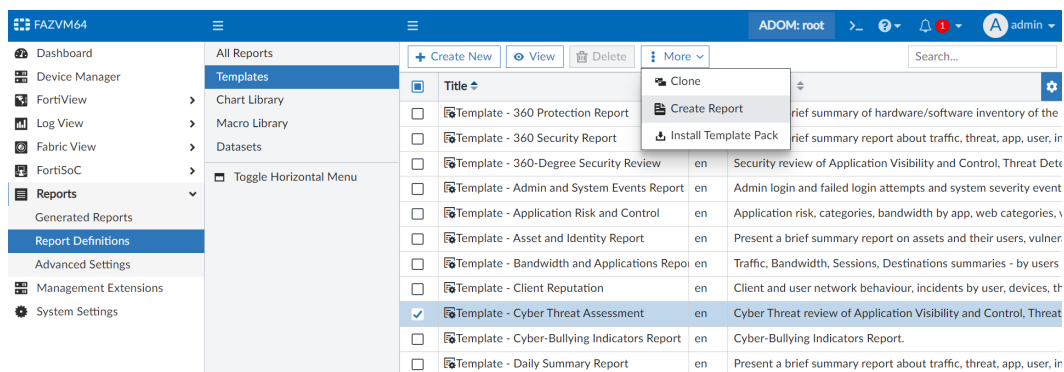
For example, see a sample of the report in PDF format below:





To create the report from the template:

- Go to **Reports > Report Definitions > Templates**.
From the *Preview* column, you can click **PDF** or **HTML** to preview the report in that format.
- Select the checkbox for **Template - Cyber Threats Assessment Report**.
- From the **More** dropdown, click **Create Report** to create a report using the template.
You can also click **Clone** to clone the template and make adjustments.



To run the Cyber Threats Assessment Report:

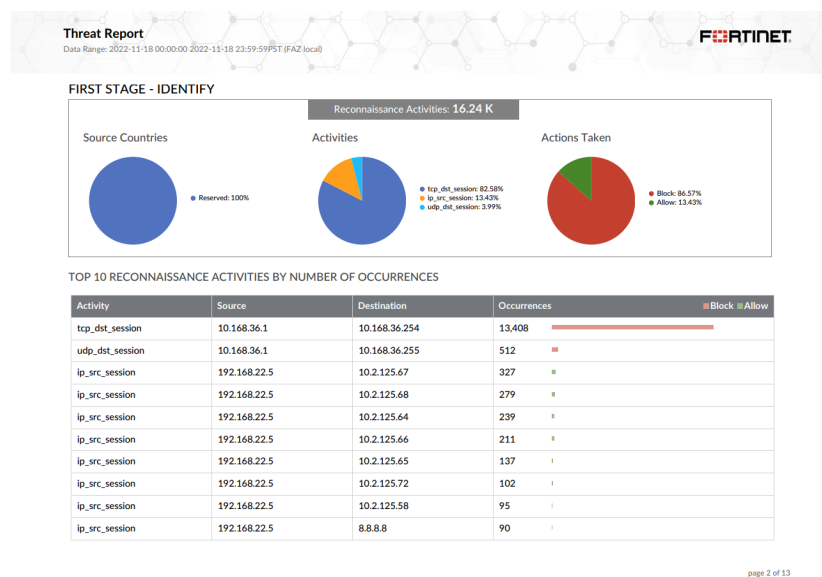
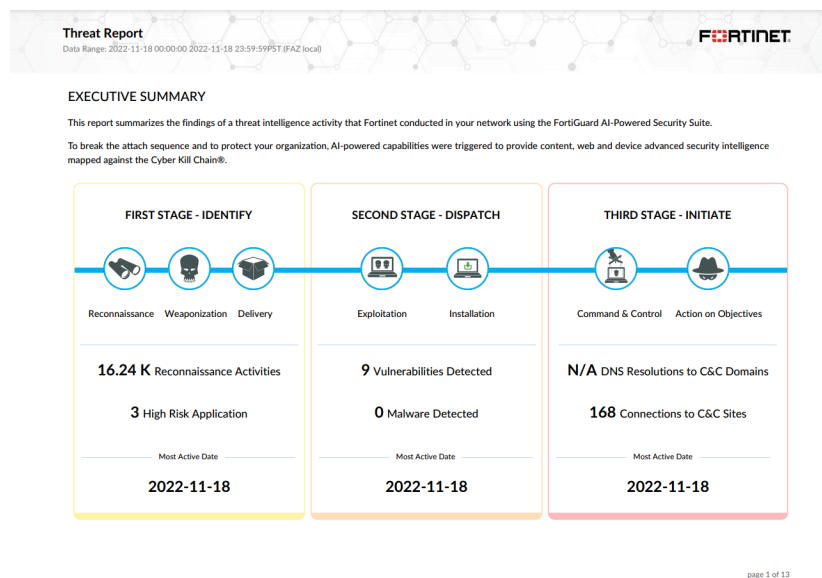
- Go to **Reports > Report Definitions > All Reports**, and double-click the row for the **Cyber Threats Assessment Report**.
The *Edit: Cyber Threats Assessment Report* pane opens.
- Click **Run Report**.
Once the report is available, click the format to view the report in.

Threat Report update

The *Threat Report* has been updated to provide the following:

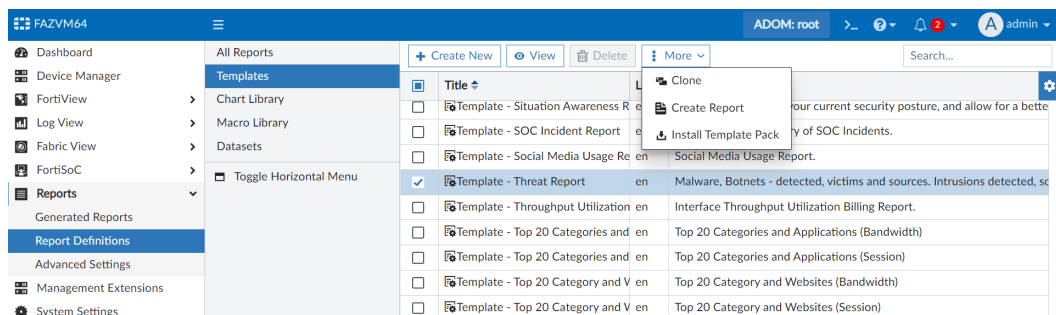
- New style and content to better present threat data
- Threats are mapped to the Cyber Kill Chain stages for correlation and pattern identification

For example, see a sample of the report in PDF format below:



To create the report from the template:

1. Go to *Reports > Report Definitions > Templates*.
From the *Preview* column, you can click *PDF* or *HTML* to preview the report in that format.
2. Select the checkbox for *Template - Threat Report*.
3. From the *More* dropdown, click *Create Report* to create a report using the template.
You can also click *Clone* to clone the template and make adjustments.



To run the Threat Report:

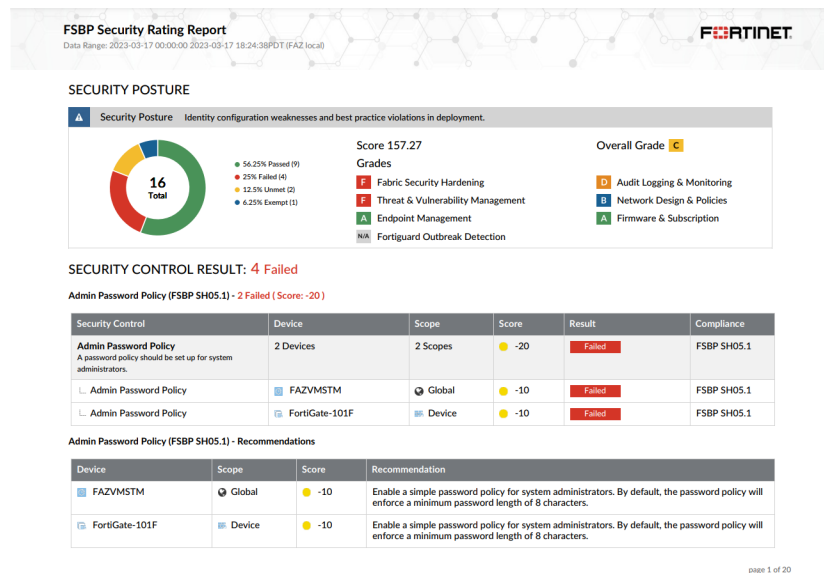
1. Go to **Reports > Report Definitions > All Reports**, and double-click the row for the **Threat Report**. The **Edit: Threat Report** pane opens.
2. Click **Run Report**.
Once the report is available, click the format to view the report in.

FSBP Security Rating Report

A FSBP (Fortinet Security Best Practices) Security Rating Report is available on FortiAnalyzer to optimize the deployed FortiGates in terms of *Security Posture*, *Fabric Coverage*, and *Optimization*. This report consolidates security ratings performed on fabric deployments.

Each category includes the *Failed*, *Unmet*, *Passed*, and *Exempt* security control results. Recommendations are provided as well.

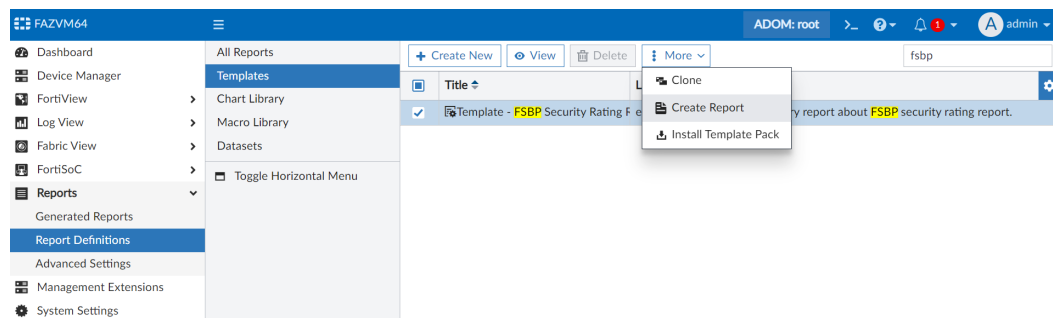
For example, see a sample of page 1 from the report in PDF format below.



To create the report from the template:

1. Go to **Reports > Report Definitions > Templates**.
From the **Preview** column, you can click **PDF** or **HTML** to preview the report in that format.

2. Select the checkbox for *Template - FSBP Security Rating Report*.
3. From the *More* dropdown, click *Create Report* to create a report using the template.
You can also click *Clone* to clone the template and make adjustments.



To run the FSBP Security Rating Report:

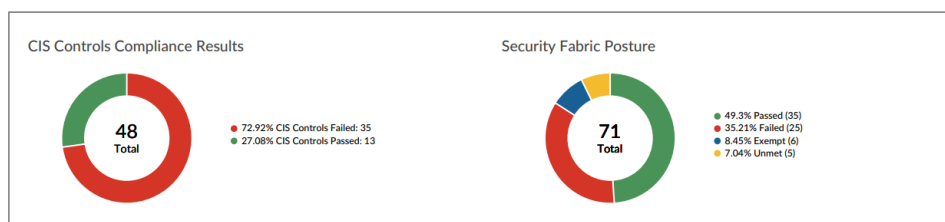
1. Go to *Reports > Report Definitions > All Reports*, and double-click the row for the *FSBP Security Rating Report*.
The *Edit: FSBP Security Rating Report* pane opens.
2. Click *Run Report*.
Once the report is available, click the format to view the report in.

CIS Controls Security Rating report

A *CIS Controls Security Rating Report* is now available on FortiAnalyzer. This report includes CIS mapping information. For example, see a sample of the report in PDF format below.



EXECUTIVE SUMMARY



OVER VIEW

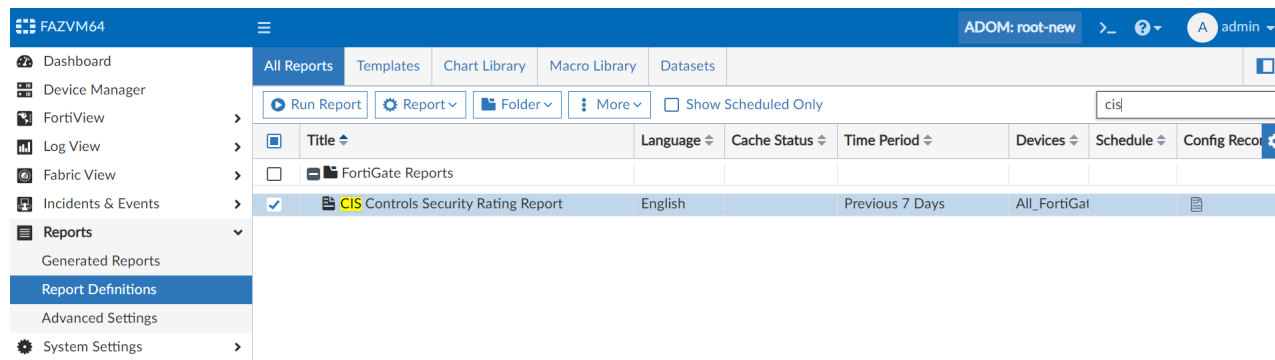
CIS CRITICAL SECURITY CONTROL

CIS Control	CIS Name	Failed, Unmet or Exempt (# of Devices)	Passed (# of Devices)
CIS Control 1	Inventory and Control of Enterprise Assets	1	0
└ CIS Control 1.1	Establish and Maintain Detailed Enterprise Asset Inventory	1	0
└ CIS Control 1.2	Address Unauthorized Assets	0	0
CIS Control 3	Data Protection	1	0
└ CIS Control 3.3	Configure Data Access Control Lists	1	0
└ CIS Control 3.10	Encrypt Sensitive Data in Transit	1	0
└ CIS Control 3.12	Segment Data Processing and Storage Based on Sensitivity	1	0

page 1 of 19

To create the report from the template:

1. Go to *Reports > Report Definitions > Templates*.
From the *Preview* column, you can click *PDF* or *HTML* to preview the report in that format.
2. Select the checkbox for *Template - CIS Controls Security Rating Report*.
3. From the *More* dropdown, click *Create Report* to create a report using the template.
You can also click *Clone* to clone the template and make adjustments.



To run the CIS Controls Security Rating Report:

1. Go to *Reports > Report Definitions > All Reports*, and double-click the row for the *CIS Controls Security Rating Report*.
The *Edit: CIS Controls Security Rating Report* pane opens.
2. Click *Run Report*.
Once the report is available, click the format to view the report in.

Shadow IT Report

The *Shadow IT Report* is now available on FortiAnalyzer.

This report provides enhanced visibility and control for cloud based applications.

Detected applications are classified as:

- Managed: Allowed applications.
- Unmanaged: Blocked, quarantined, or reset applications.

Information about the applications, including their Category and Compliance Standard, is provided by the Shadow IT database (SIDB).

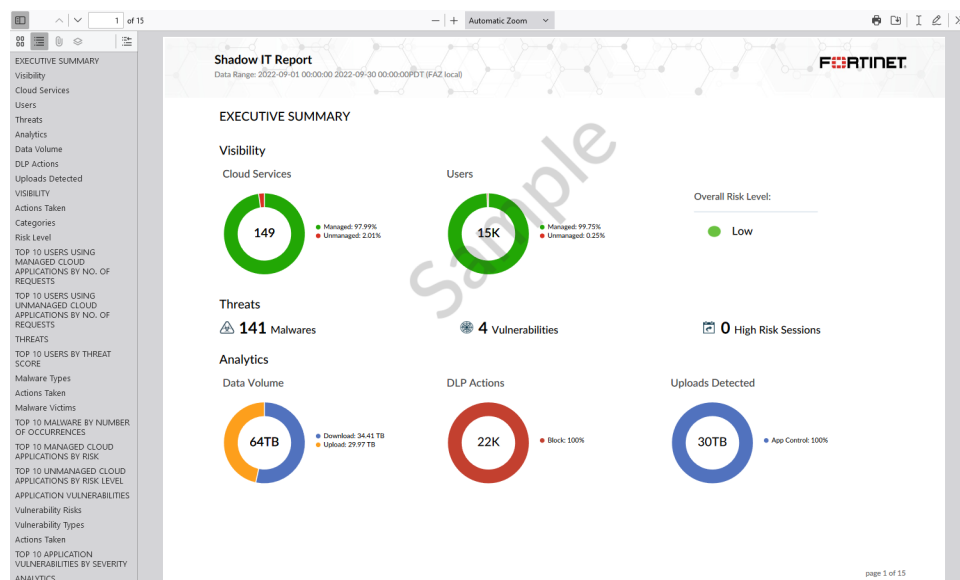
Application risk is determined by a numerical score provided by the SIDB for each application. The Risk Levels in the report are as follows:

- Low: Score is 1 to 15.
- Guarded: Score is 16 to 30.
- Elevated: Score is 31 to 50.
- High: Score is 51 to 70.
- Severe: Score is 71 to 100.

The **Overall Risk Level** is the average application risk score for all detected managed applications.

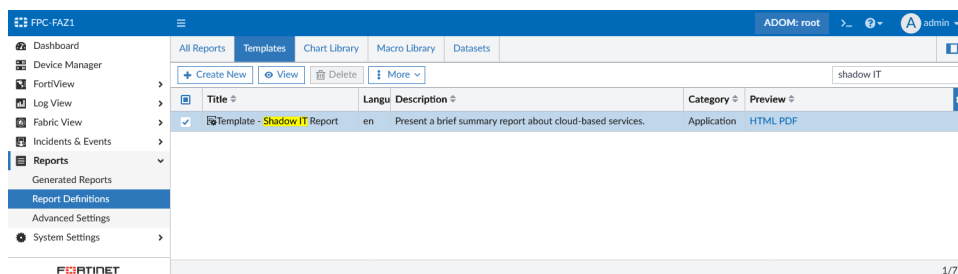
The **High Risk Sessions** are the number of sessions from managed applications with a risk score of **High** or **Severe**.

For example, see a sample of page 1 from the report in PDF format below.



To create the report from the template:

1. Go to **Reports > Report Definitions > Templates**.
From the **Preview** column, you can click **PDF** or **HTML** to preview the report in that format.
2. Select the checkbox for **Template - Shadow IT Report**.
3. From the **More** dropdown, click **Create Report** to create a report using the template.
You can also click **Clone** to clone the template and make adjustments.



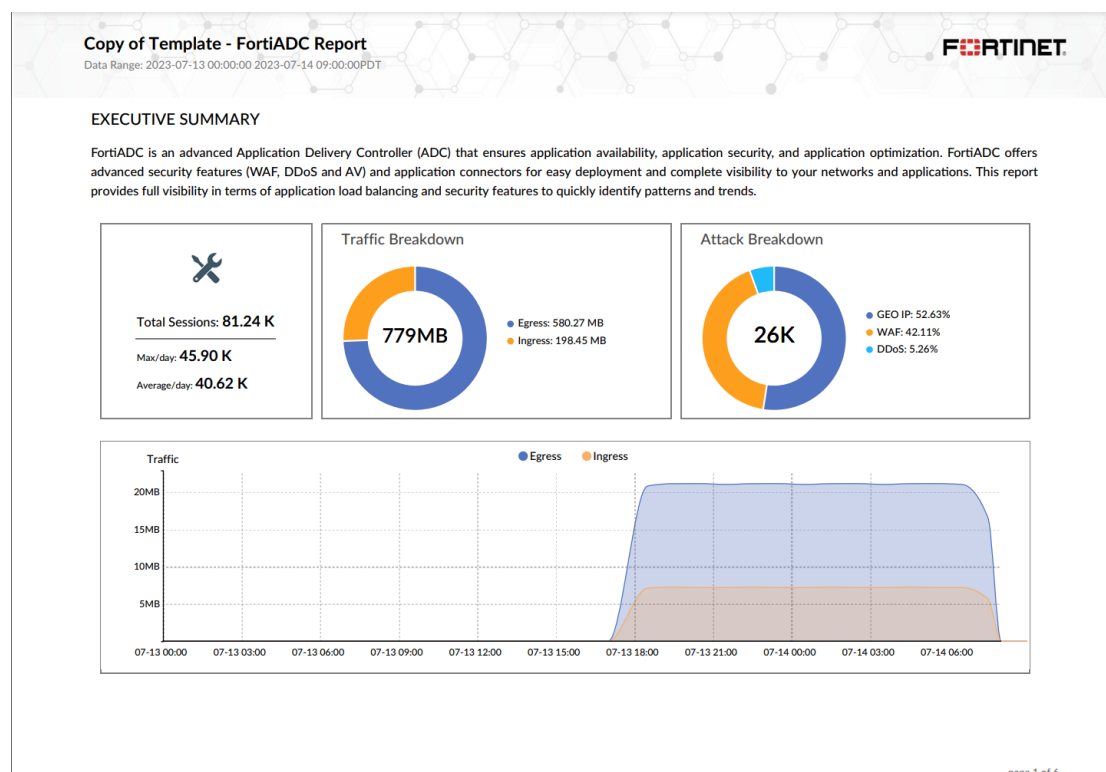
To run the Shadow IT Report:

1. Go to **Reports > Report Definitions > All Reports**, and double-click the row for the **Shadow IT Report**.
The **Edit: Shadow IT Report** pane opens.
2. Click **Run Report**.
Once the report is available, click the format to view the report in.

FortiADC Report - 7.4.1

The *FortiADC Report* is available on FortiAnalyzer to offer comprehensive visibility into application load balancing and security features, enabling rapid identification of security patterns and trends associated with the use of the product.

For example, see a sample of page 1 from the report in PDF format below.



This report requires that a FortiADC device has been added and authorized to the FortiAnalyzer.

To create the report from the template:

1. Go to *Reports > Report Definitions > Templates*.
From the *Preview* column, you can click *PDF* or *HTML* to preview the report in that format.
2. Select the checkbox for *Template - FortiADC Report*.
3. From the *More* dropdown, click *Create Report* to create a report using the template.
You can also click *Clone* to clone the template and make adjustments.

The screenshot shows the FortiAnalyzer web interface. On the left is a navigation menu with options like Dashboard, Device Manager, FortiView, Log View, Fabric View, Incidents & Events, Reports, Report Definitions, Advanced Settings, and System Settings. The 'Report Definitions' section is active, displaying a table of report templates. The 'FortiADC Report' is highlighted, and a context menu is open over it, showing 'Clone', 'Create Report', and 'Install Template Pack' options. The table lists various report templates with their categories and preview links.

Title	Description	Category	Preview
Template - DNS Report	DNS activity on the network.	System	HTML PDF
Template - DNS Security Report	DNS Security.	Security	HTML PDF
Template - Email Report	ents by Total Number and Size of emails.	Security	HTML PDF
Template - Endpoint Sandbox Detections Report	the APT threats detected by sandbox	FortiSandbox	HTML PDF
Template - FortiADC Report	report about FortiADC analysis.	FortiADC	HTML PDF
Template - FortiCache Default Report	s, cache rate, traffic and request timeline. Top 20 websites by bandwidth, bandwidth savings, cac	FortiCache	HTML PDF
Template - FortiCache Security Analysis		FortiCache	HTML PDF
Template - FortiCache Web Usage Report		FortiCache	HTML PDF
Template - FortiClient Default Report	n, OS, Device, FCT version and client summary. Threat summary by AV threats, infected devices,	FortiClient	HTML PDF
Template - FortiClient Default Report from FortiGn, OS, Device, FCT version and client summary. Threat summary by AV threats, infected devices,		Security	HTML PDF

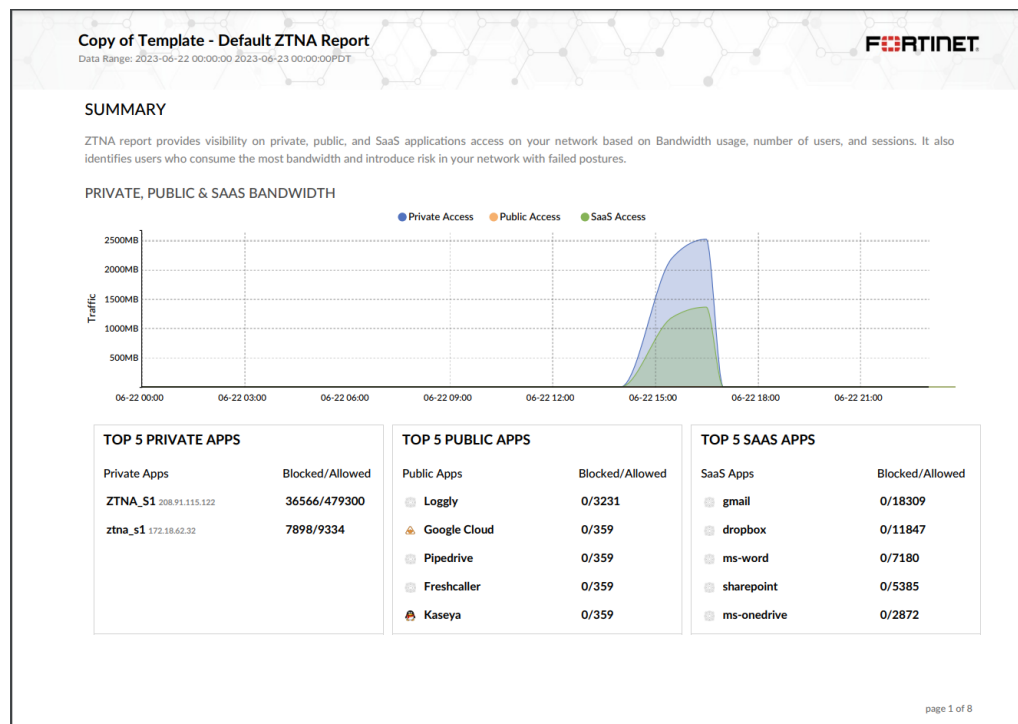
To run the FortiADC Report:

1. Go to **Reports > Report Definitions > All Reports**, and double-click the row for the **FortiADC Report**. The **Edit: FortiADC Report** pane opens.
2. Click **Run Report**.
Once the report is available, click the format to view the report in.

ZTNA Report - 7.4.1

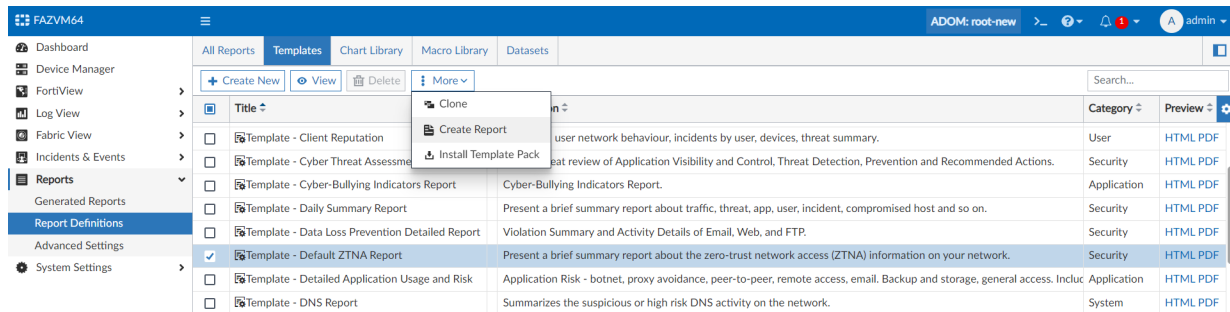
The **Default ZTNA Report** is now available on FortiAnalyzer to enhance visibility in terms of applications being used with the corresponding bandwidth used and sessions. To better differentiate accessibility and deployments, applications are grouped as private, public, and SaaS. Users that present security risks due to failing security postures can be quickly identified.

For example, see a sample of page 1 from the report in PDF format below.



To create the report from the template:

1. Go to *Reports > Report Definitions > Templates*.
From the *Preview* column, you can click *PDF* or *HTML* to preview the report in that format.
2. Select the checkbox for *Template - Default ZTNA Report*.
3. From the *More* dropdown, click *Create Report* to create a report using the template.
You can also click *Clone* to clone the template and make adjustments.

**To run the Default ZTNA Report:**

1. Go to *Reports > Report Definitions > All Reports*, and double-click the row for the *Default ZTNA Report*.
The *Edit: Default ZTNA Report* pane opens.
2. Click *Run Report*.
Once the report is available, click the format to view the report in.

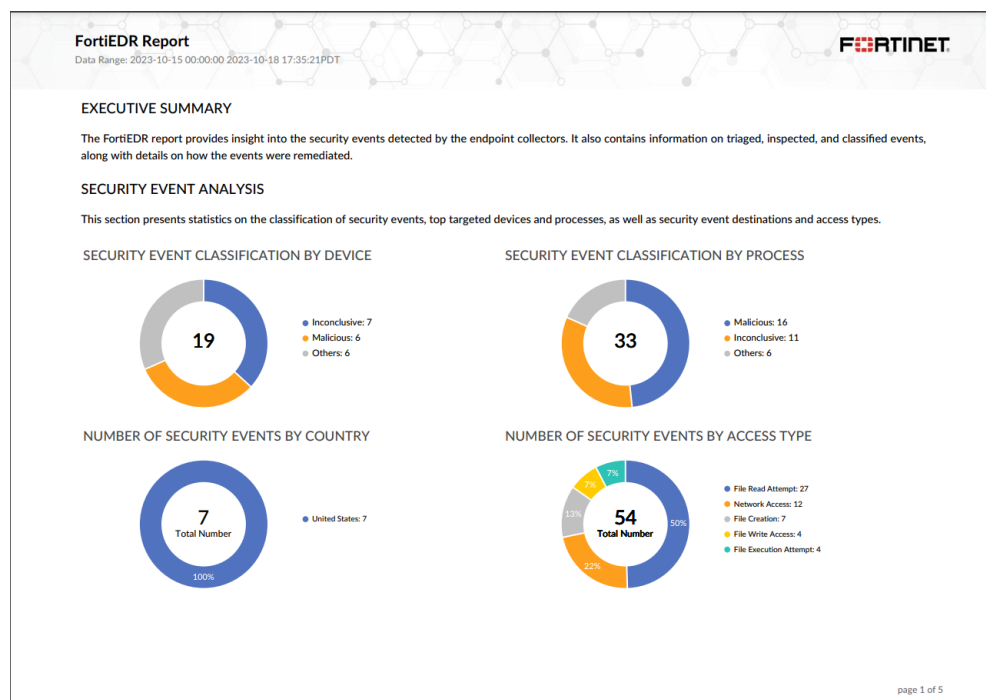
FortiEDR Report - 7.4.1

This information is also available in the FortiAnalyzer 7.4 Administration Guide:

- [List of Report Templates](#)

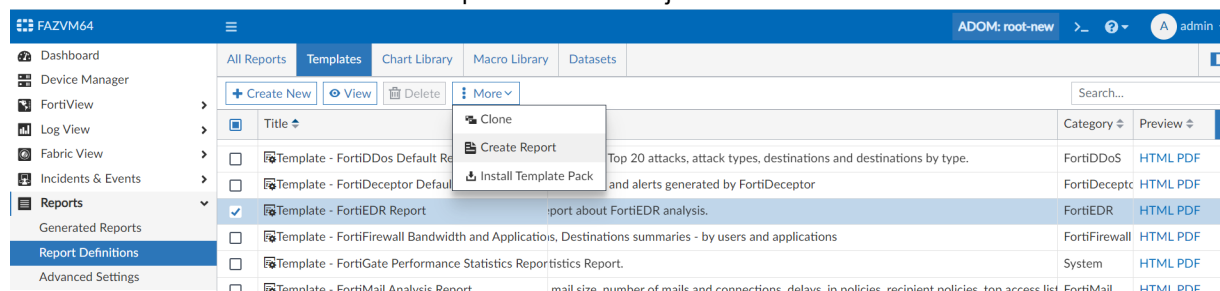
A FortiEDR report is available on FortiAnalyzer to provide insight into the security events detected by the endpoint collectors. It also contains information on triaged, inspected, and classified events, along with details on how the events were remediated.

For example, see a sample of page 1 from the report in PDF format below.



To create the report from the template:

1. Go to *Reports > Report Definitions > Templates*.
From the *Preview* column, you can click *PDF* or *HTML* to preview the report in that format.
2. Select the checkbox for *Template - FortiEDR Report*.
3. From the *More* dropdown, click *Create Report* to create a report using the template.
You can also click *Clone* to clone the template and make adjustments.



To run the FortiEDR Report:

1. Go to *Reports > Report Definitions > All Reports*, and double-click the row for the *FortEDR Report*.
The *Edit: FortiEDR Report* pane opens.
2. Click *Run Report*.
Once the report is available, click the format to view the report in.

ISO 27001:2022 Compliance Security Rating Report - 7.4.1

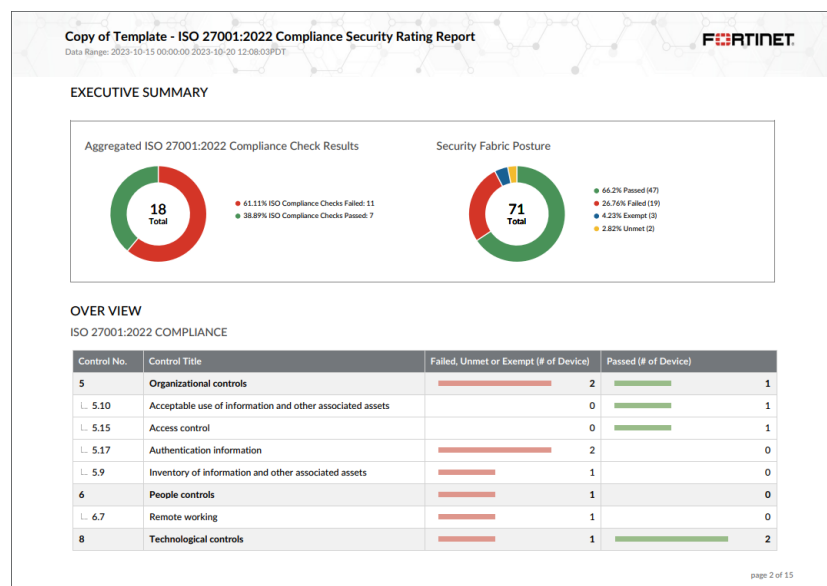


This information is also available in the FortiAnalyzer 7.4 Administration Guide:

- [List of Report Templates](#)

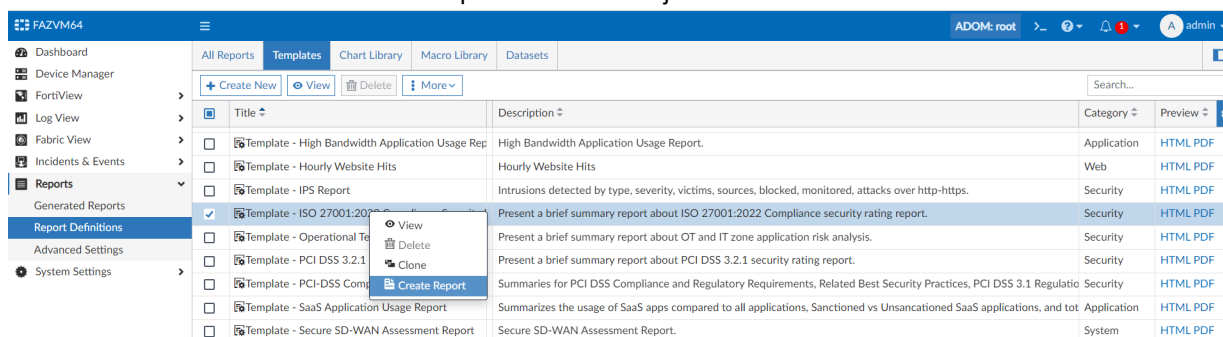
FortiAnalyzer v7.4.1 includes an *ISO 27001:2022 Compliance Security Rating Report* to help customers optimize their deployed FortiGates and other fabric devices to be aligned with the technical requirements of common industry compliance framework.

For example, see a sample of page 2 from the report in PDF format below.



To create the report from the template:

1. Go to *Reports > Report Definitions > Templates*.
From the *Preview* column, you can click *PDF* or *HTML* to preview the report in that format.
2. Select the checkbox for *Template - ISO 27001:2022 Compliance Security Rating Report*.
3. From the *More* dropdown, click *Create Report* to create a report using the template.
You can also click *Clone* to clone the template and make adjustments.



To run the ISO 27001:2022 Compliance Security Rating Report:

1. Go to *Reports > Report Definitions > All Reports*, and double-click the row for the *ISO 27001:2022 Compliance Security Rating Report*.

The *Edit: ISO 27001:2022 Compliance Security Rating Report* pane opens.

2. Click *Run Report*.

Once the report is available, click the format to view the report in.

Exporting a report with settings - 7.4.1



This information is also available in the FortiAnalyzer 7.4 Administration Guide:

- [Importing and exporting reports](#)

In FortiAnalyzer 7.4.1, the report settings, subnets, LDAP server, and output profile configurations are included in exported report files. You can then import the report file, including the configurations, to another FortiAnalyzer unit or ADOM.

To export a report:

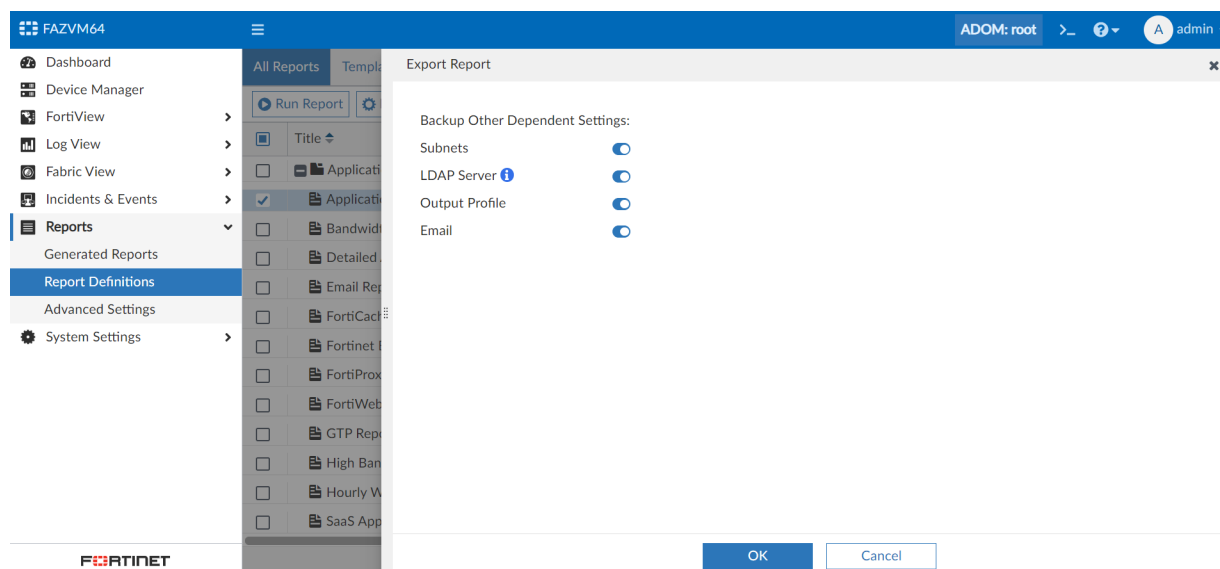
1. If using ADOMs, ensure that you are in the correct ADOM.
2. Go to *Reports > Report Definitions > All Reports*.
3. Select a report, and click *More > Export*.

In this example, the admin is exporting the Application Risk and Control report.

The screenshot shows the FortiAnalyzer 7.4.1 web interface. The left sidebar contains navigation options: Dashboard, Device Manager, FortiView, Log View, Fabric View, Incidents & Events, Reports, Generated Reports, Report Definitions, Advanced Settings, and System Settings. The 'Reports' section is expanded, showing 'Report Definitions'. The 'All Reports' pane is displayed, listing various reports. The 'Application Risk and Control' report is selected, and the 'More' menu is open, showing the 'Export' option.

Title	Language	Cache Status	Time Period	Devices	Schedule	Config Rec
<input checked="" type="checkbox"/> Application Risk and Control	English		Previous 7 Days	All_FortiGate		
<input type="checkbox"/> Bandwidth and Applications Report	English		Previous 7 Days	All Devices		
<input type="checkbox"/> Detailed Application Usage and Risk	English		Previous 7 Days	All Devices		
<input type="checkbox"/> Email Report	English		Previous 7 Days	All Devices		
<input type="checkbox"/> FortiCache Web Usage Report	English		Previous 7 Days	All Devices		
<input type="checkbox"/> Fortinet Email Risk Assessment	English		Previous 7 Days	All Devices		
<input type="checkbox"/> FortiProxy Web Usage Report	English		Previous 7 Days	All Devices		
<input type="checkbox"/> FortiWeb Web Application Analysis Report	English		Previous 7 Days	All Devices		
<input type="checkbox"/> GTP Report	English		Previous 7 Days	All Devices		
<input type="checkbox"/> High Bandwidth Application Usage Report	English		Previous 7 Days	All Devices		
<input type="checkbox"/> Hourly Website Hits	English		Previous 7 Days	All Devices		
<input type="checkbox"/> SaaS Application Usage Report	English		Previous 7 Days	All Devices		
<input type="checkbox"/> Secure SD-WAN Report	English		Previous 7 Days	All_FortiGate		

The *Export Report* pane displays.



4. Use the toggles to *Backup Other Dependent Settings* in the exported file, as needed:
 - *Subnets*
 - *LDAP Server* (the export will remove the ADOM setting from the LDAP configuration)
 - *Output Profile*
 - *Email*

By default, all of these options are disabled.

5. Click **OK** to export the report.

The report configuration is saved as a .dat file on the management computer. This includes the charts, datasets, images, and report settings.

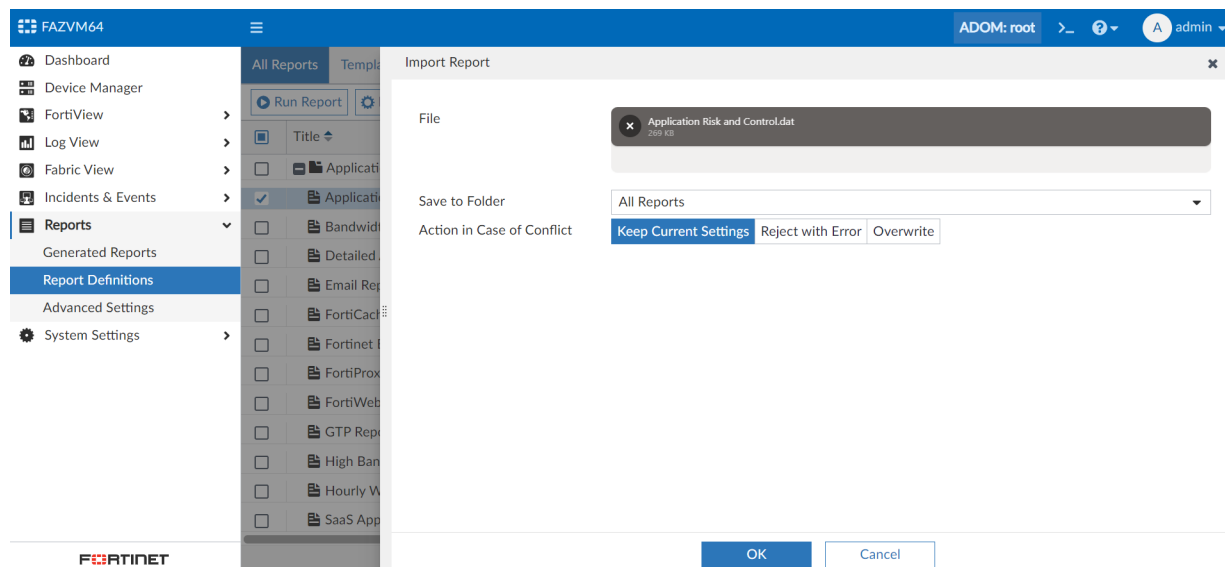
To import a report:

1. If using ADOMs, ensure that you are in the correct ADOM.

If the device type used in the charts and datasets for the report does not match the ADOM type, the import will be rejected with an error. For more information, see [How ADOMs affect reports](#) in the FortiAnalyzer Administration Guide.

2. Go to *Reports > Report Definitions > All Reports*.
3. Click *More > Import*.

The *Import Report* pane displays.

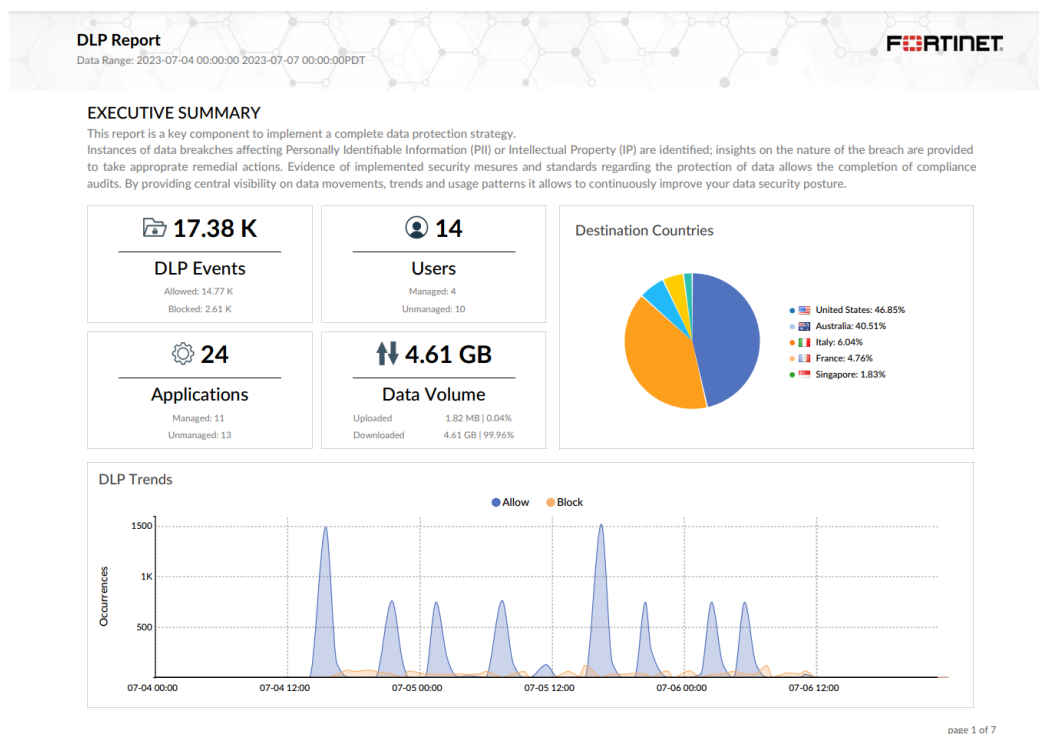


4. In the *File* field, drag and drop the .dat report file, or click *Browse* and select the file.
In the example pictured above, the admin is importing the previously exported *Application Risk and Control* report.
5. From the *Save to Folder* dropdown, select the folder to save the report in.
6. Select the *Action in Case of Conflict*:
 - *Keep Current Settings* (default)
 - *Reject with Error*
 - *Overwrite*
7. Click *OK* to import the report.

DLP report - 7.4.1

A *DLP Report* is available on FortiAnalyzer to enhance visibility and to implement a comprehensive data protection policy.

For example, see a sample of page 1 from the report in PDF format below.



To create the report from the template:

- Go to *Reports > Report Definitions > Templates*.
From the *Preview* column, you can click *PDF* or *HTML* to preview the report in that format.
- Select the checkbox for *Template - DLP Report*.
- From the *More* dropdown, click *Create Report* to create a report using the template.
You can also click *Clone* to clone the template and make adjustments.

FAZVM64

ADOM: root

admin

Dashboard
Device Manager
FortiView
Log View
Fabric View
Incidents & Events
Reports
Generated Reports
Report Definitions
Advanced Settings
System Settings

All Reports
Templates
Chart Library
Macro Library
Datasets

+ Create New
View
Delete
More

Search...

Title	Description	Category	Preview	Origin
template - Client reputation	Summary.	User	HTML PDF	Built-in
Template - Cyber Threat Assessment	on, Prevention and Recommended Actions.	Security	HTML PDF	Built-in
Template - Cyber-Bullying Indicators Report		Application	HTML PDF	Built-in
<input checked="" type="checkbox"/> Template - DLP Report		Security	HTML PDF	Built-in
Template - DNS Report	he network.	System	HTML PDF	Built-in
Template - DNS Security Report		Security	HTML PDF	Built-in
Template - Daily Summary Report	, user, incident, compromised host and so on.	Security	HTML PDF	Built-in
Template - Data Loss Prevention Detailed Rend FTP.		Security	HTML PDF	Built-in
Template - Default ZTNA Report	work access (ZTNA) information on your network.	Security	HTML PDF	Built-in
Template - Detailed Application Usage and R	remote access, email. Backup and storage, general access. Includ	Application	HTML PDF	Built-in
Template - Email Report	of emails.	Security	HTML PDF	Built-in
Template - Endpoint Sandbox Detections Rejdbox		FortiSandbox	HTML PDF	Built-in
Template - FSBP Security Rating Report	ng report.	Security	HTML PDF	Built-in

Fortinet

12% 88

To run the DLP Report:

1. Go to *Reports > Report Definitions > All Reports*, and double-click the row for the *DLP Report*.
The *Edit: DLP Report* pane opens.
2. Click *Run Report*.
Once the report is available, click the format to view the report in.

PCI DSS security rating report update - 7.4.1

The PCI DSS report has been updated to match the PCI DSS 3.2.1 requirements. It is now call the *PCI DSS Security Rating Report*.

For example, see a sample of page 1 and 2 from the report in PDF format below.

PCI DSS 3.2.1 Security Rating Report

Data Range: 2023-10-25 00:00:00 2024-02-01 23:59:59 PST


FORTINET

FORTINET SECURITY BEST PRACTICES (FSBP)

The FortiGuard Security Rating Service is intended to guide you in the design, implementation, and maintenance of your target security posture. The Fortinet Security Fabric is built on security best practices and by running audit checks, security teams will be able to identify critical vulnerabilities and configuration weaknesses. They can then set up and implement best practice recommendations (FSBP) in their Security Fabric platform.

COMPLIANCE MONITORING & REPORTING

The FortiGuard Security Rating Service helps organizations comply and document compliance with applicable frameworks. The service continually analyzes and reports changes to network topology, simplifies identification and remediation of risky and non-compliant devices, provides action plans as well as tools for reporting progress to stakeholders.



FORTIANALYZER COMPLIANCE (SECURITY RATING) REPORT

This report is available on FortiAnalyzer to help customers optimize their deployed FortiGates and other fabric devices to be aligned with the technical requirements of common industry compliance framework. Please refer to the **Appendix: List of devices in scope that are covered in this report.**

Please note: Devices in scope and compliance assessment results, are based on the Security Fabric setup by the customer. The customer is responsible for the scope and configuration of devices included in their Security Fabric.

PAYMENT CARD INDUSTRY DATA SECURITY STANDARDS (PCI DSS 3.2.1)

The Payment Card Industry Data Security Standard (PCI DSS) was developed to encourage and enhance cardholder data security and facilitate the broad adoption of consistent data security measures globally. PCI DSS provides a baseline of technical and operational requirements designed to protect account data. Please refer to **Appendix: List of PCI DSS 3.2.1 requirements not covered by FSBP.**

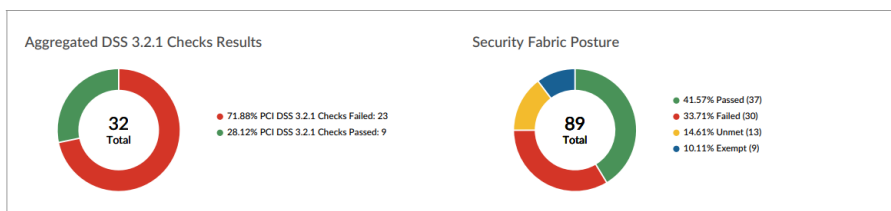
Build and Maintain a Secure Network and Systems	1	Install and maintain a firewall configuration to protect cardholder data
	2	Do not use vendor-supplied defaults for system passwords and other security parameters
Protect Cardholder Data	3	Protect stored cardholder data
	4	Encrypt transmission of cardholder data across open, public networks
Maintain a Vulnerability Management Program	5	Protect all systems against malware and regularly update anti-virus software of programs
	6	Develop and maintain secure systems and applications
Implement Strong Access Control Measures	7	Restrict access to cardholder data by business need to know
	8	Identify and authenticate access to system components
Regularly Monitor and Test Networks	9	Restrict physical access to cardholder data
	10	Track and monitor all access to network resources and cardholder data
Maintain an Information Security Policy	11	Regularly test security systems and processes
	12	Maintain a policy that addresses information security for all personnel

For more information on PCI DSS please visit the PCI Security Standards Council site <https://www.pcisecuritystandards.org/>.

page 1 of 29



EXECUTIVE SUMMARY



OVER VIEW

PCI DSS 3.2.1 REQUIREMENT

Requirement	Description	Failed, Unmet or Exempt (# of Device)	Passed (# of Device)
1	Install and maintain a firewall configuration to protect cardholder data	1	1
1.1.2	Current network diagram that identifies all connections between the cardholder data environment and other networks, including any wireless networks	1	0
1.1.3	Current diagram that shows all cardholder data flows across systems and networks	1	0
1.1.4	Requirements for a firewall at each Internet connection and between any demilitarized zone (DMZ) and the internal network zone	0	1

page 2 of 29

To create the report from the template:

- Go to *Reports > Report Definitions > Templates*.
From the *Preview* column, you can click *PDF* or *HTML* to preview the report in that format.
- Select the checkbox for *Template - PCI DSS 3.2.1 Security Rating Report*.
- From the *More* dropdown, click *Create Report* to create a report using the template.
You can also click *Clone* to clone the template and make adjustments.

FAZVM64

ADOM: root

admin

Dashboard
Device Manager
FortiView
Log View
Fabric View
Incidents & Events
Reports
Generated Reports
Report Definitions
Advanced Settings
System Settings

All Reports | **Templates** | Chart Library | Macro Library | Datasets

+ Create New | View | Delete | More

PCI

Title	Category	Preview	Origin
Template - PCI DSS 3.2.1 Security Rating Report	Security	HTML PDF	Built-in
Template - PCI-DSS Compliance	Security	HTML PDF	Built-in
Template - Wireless PCI Compliance	Security	HTML PDF	Built-in

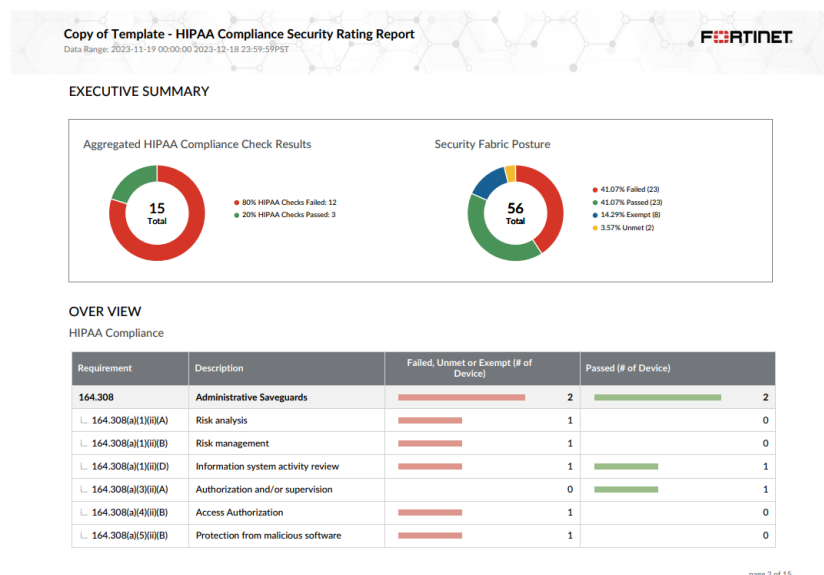
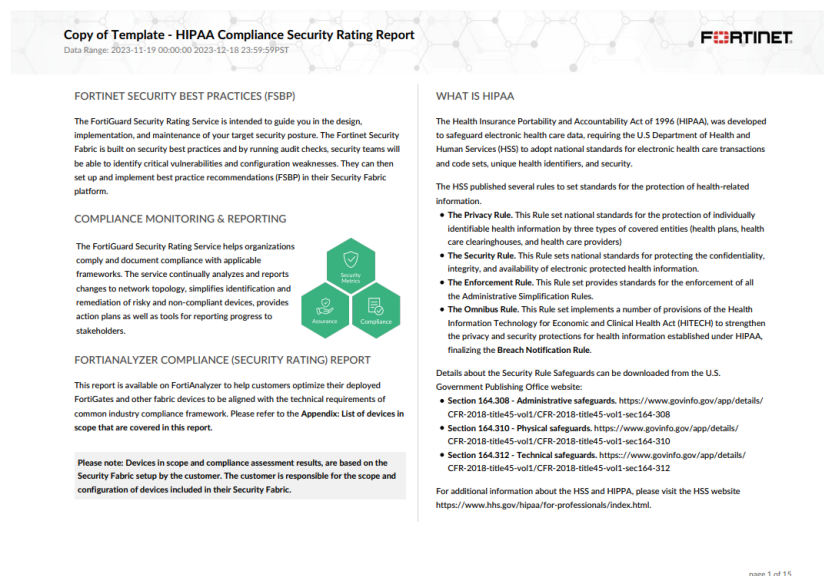
To run the PCI DSS 3.2.1 Security Rating Report:

- Go to *Reports > Report Definitions > All Reports*, and double-click the row for the *PCI DSS 3.2.1 Security Rating Report*.
The *Edit: PCI DSS 3.2.1 Security Rating Report* pane opens.
- Click *Run Report*.
Once the report is available, click the format to view the report in.

HIPAA report - 7.4.2

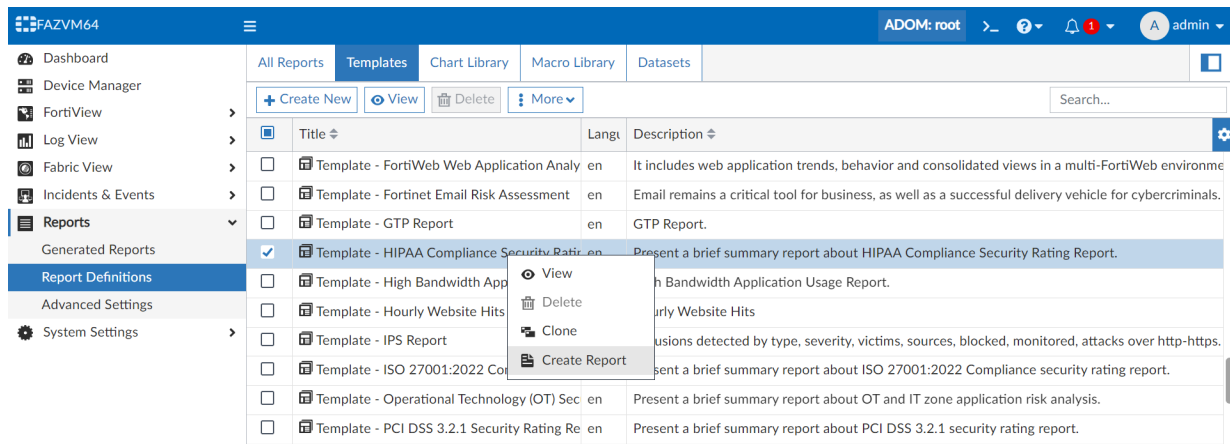
The *HIPAA Compliance Security Rating Report* is now available on FortiAnalyzer to provide a security and compliance posture assessment of the security fabric against HIPAA compliance requirements.

For example, see a sample of page 1 and 2 from the report in PDF format below.



To create the report from the template:

1. Go to *Reports > Report Definitions > Templates*.
From the *Preview* column, you can click *PDF* or *HTML* to preview the report in that format.
2. Select the checkbox for *Template - HIPAA Compliance Security Rating Report*.
3. Right-click the report and select *Create Report* to create a report using the template.
You can also click *Clone* to clone the template and make adjustments.



To run the report:

1. Go to *Reports > Report Definitions > All Reports*, and double-click the row for the *HIPAA Compliance Security Rating Report*.
The *Edit: HIPAA Compliance Security Rating Report* pane opens.
2. Click *Run Report*.
Once the report is available, click the format to view the report in.

Others

This section lists the new features added to FortiAnalyzer for other topics relating to logging and reporting:

- [Time zone settings per ADOMs/Reports on page 115](#)
- [New API to restore logs on page 118](#)

Time zone settings per ADOMs/Reports



This information is also available in the FortiAnalyzer 7.4 Administration Guide:

- [Creating ADOMs](#)
- [Report Settings tab](#)

To allow a more granular reporting experience for Global deployment, different timezones can be configured on each ADOM/Report.

The *Default* time zone used for this setting is the time zone set for the FortiAnalyzer.

To configure the time zone for an ADOM:

1. Go to *System Settings > ADOMs*.
2. Edit or create a new ADOM.
3. From the *Time Zone* dropdown, select a time zone for the ADOM.

This time zone will be used when displaying data in *Log View* and *FortiView* for this ADOM.

Create ADOM

Name: FGT

Type: FortiGate

Time Zone: Default

Description:

Devices:

Data Policy:

Keep Logs for Analytics: 60 Days

Keep Logs for Archive: 365 Days

Disk Utilization:

Allocated: 15990 MB

Analytics: Archive: 70%

Alert and Delete When Usage Reaches: 90%

OK Cancel

4. Click **OK** to save.

Example:

In this example, the system time zone is (GMT-8:00) Pacific Time, which is used by the root ADOM. The admin creates a new adom (ADOM1) and sets the time zone to (GMT-5:00) Eastern Time:

Edit ADOM

Name: ADOM1

Type: Fabric

Time Zone: GMT-5:00 Eastern Time (US & Canada)

Description:

Devices:

Select Device: JohnYang-FortiGate-40F

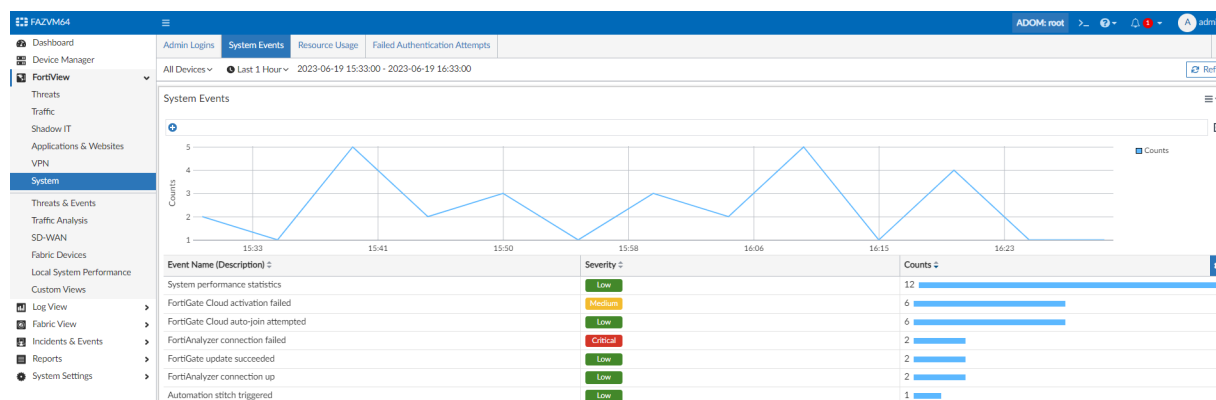
IP Address: 10.3.169.1

Platform: FortiGate-40F

In the root ADOM, the *Log View*, *FortiView*, and *Generated Reports* panes are displayed according to the default system time zone: (GMT-8:00) Pacific Time.

For example, the admin is reviewing the panes below at approximately 16:30 Pacific Time.

#	Date/Time	Device ID	Action	Source	User	Destination IP	Service	Application	Sent/Received	Security Event List
1	16:30:02	FG800D3915800X	✓close	192.168.1.1		192.168.1.1	tcp/853	tcp/853	3.8 KB/8.7 KB	
2	16:29:57	FG800D3915800X	✓accept	127.0.0.1		127.0.0.1	udp/12121	udp/12121	3.6 KB/0.0 KB	
3	16:29:42	FG800D3915800X	✓close	192.168.1.1		192.168.1.1	tcp/853	tcp/853	3.8 KB/8.1 KB	
4	16:29:42	FG800D3915800X	✓close	192.168.1.1		192.168.1.1	tcp/853	tcp/853	3.8 KB/8.7 KB	
5	16:29:17	FG800D3915800X	✓close	192.168.1.1		192.168.1.1	tcp/853	tcp/853	3.8 KB/7.5 KB	
6	16:29:17	FG800D3915800X	✓accept	192.168.1.1		192.168.1.1	NTP	NTP	76.0 B/76.0 B	
7	16:29:17	FG800D3915800X	✓accept	192.168.1.1		192.168.1.1	NTP	NTP	76.0 B/76.0 B	
8	16:29:12	FG800D3915800X	✓accept	192.168.1.1		192.168.1.1	NTP	NTP	76.0 B/76.0 B	
9	16:28:37	FG800D3915800X	✓accept	192.168.1.1		192.168.1.1	NTP	NTP	76.0 B/76.0 B	
10	16:27:52	FG800D3915800X	✓close	192.168.1.1		192.168.1.1	tcp/853	tcp/853	3.7 KB/7.5 KB	



In ADOM1, the *Log View*, *FortiView*, and *Generated Reports* panes are displayed according to the ADOM's specified time zone: (GMT-5:00) Eastern Time.

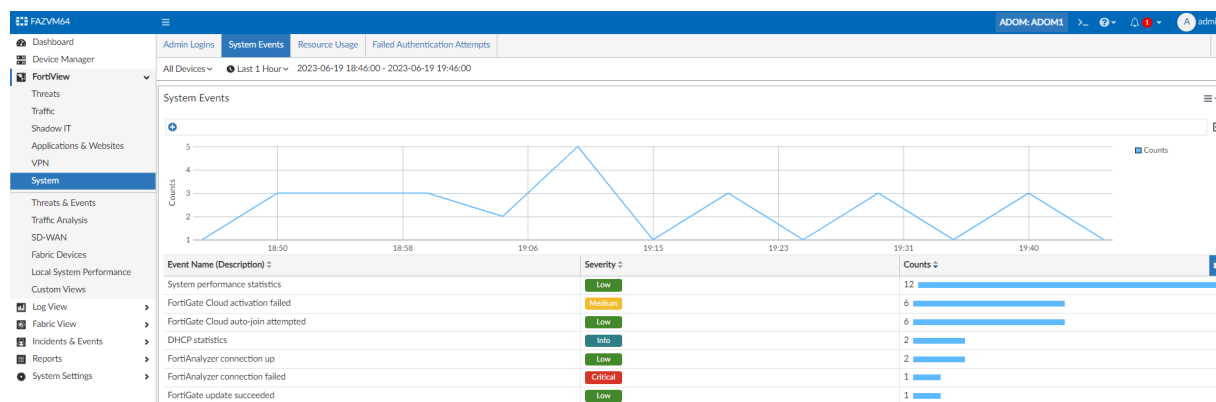
For example, the admin is reviewing the panes below at approximately 16:40 Pacific Time (19:40 Eastern Time).

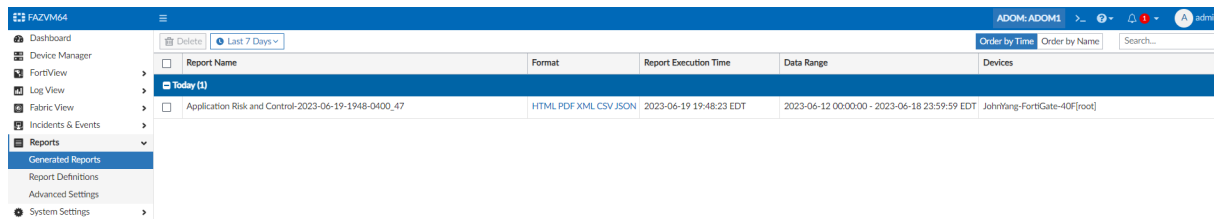
The screenshot shows the ADOM1 interface with the following panes:

- Log View:** A table of system events.

#	Date/Time	Device ID	Action	Source	User	Destination IP	Service	Application	Sent/Received	Security Event List
1	19:45:29	FGT40FTK200254	close	127.0.0.1		127.0.0.1	HTTP	HTTP	399.0 B/670...	
2	19:44:38	FGT40FTK200254	server-nt	172.16.81.155		173.243.132.25	HTTPS	HTTPS	5.3 KB/8.6 KB	
3	19:43:28	FGT40FTK200254	accept	127.0.0.1		127.0.0.1	udp/12121	udp/12121	609.0 B/0.0...	
4	19:43:13	FGT40FTK200254	accept	172.16.81.155		208.91.112.62	NTP	NTP	76.0 B/76.0 B	
5	19:42:53	FGT40FTK200254	accept	172.16.81.155		208.91.112.60	NTP	NTP	76.0 B/0.0 KB	
6	19:41:13	FGT40FTK200254	accept	172.16.81.155		96.45.45.45	DNS	DNS	2.9 KB/26.7...	
7	19:41:08	FGT40FTK200254	accept	172.16.81.155		208.91.112.63	NTP	NTP	76.0 B/0.0 KB	
8	19:41:08	FGT40FTK200254	accept	172.16.81.155		96.45.46.46	DNS	DNS	3.5 KB/31.0...	
9	19:40:38	FGT40FTK200254	server-nt	172.16.81.155		173.243.143.6	HTTPS	HTTPS	5.4 KB/8.4 KB	
10	19:40:28	FGT40FTK200254	close	127.0.0.1		127.0.0.1	HTTP	HTTP	399.0 B/670...	
- FortiView:** A line graph showing system events over time. The x-axis represents time from 18:50 to 19:40. The y-axis represents counts from 1 to 5. The graph shows a fluctuating line with peaks around 18:50, 19:06, 19:15, 19:23, 19:31, and 19:40.
- Generated Reports:** A table of reports.

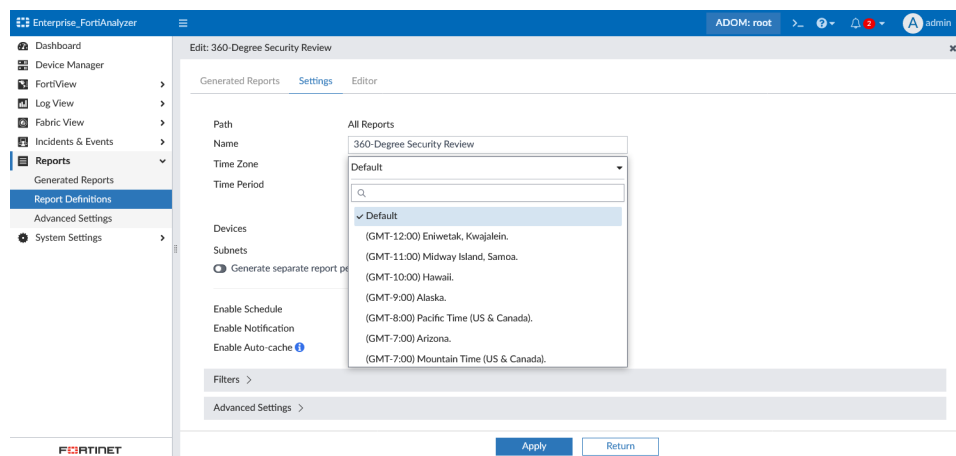
Report Name	Format	Report Execution Time	Data Range	Devices
Today (1)				
Bandwidth and Applications Report-2023-06-19-1641-0700_45	HTML,PDF,XML,CSV,JSON	2023-06-19 16:41:09 PDT	2023-06-12 00:00:00 - 2023-06-18 23:59:59 PDT	7 Devices





To configure the time zone for a report:

1. Go to *Reports > Report Definitions > All Reports*.
2. Double-click the report, or right-click the report and select *Edit*.
3. Go to the *Settings* tab.
4. From the *Time Zone* dropdown, select a time zone to use for data in the report output.



5. Click *Apply* to save.

New API to restore logs

In FortiAnalyzer 7.4.0, a new JSON API endpoint has been created to allow logstore:

/logview/logrestore

In addition, the `execute restore logs` command in the CLI is now a non-blocking task.

To implement non-blocking "restoring logs" via the CLI:

1. To run the "restoring logs" command via the CLI, enter the following command:
execute restore logs <device name(s)> {ftp | scp | sftp} <ip> <username> <password> <directory> [vdlist]

Note: This command restores all logs from a specified server which were backed up prior to changing the RAID level or formatting the disks. Executing it frequently is not recommended!

Do you want to continue? (y/n)y

The restore operation will overwrite any logs already on the FortiAnalyzer.

For following up:

diagnose log restore status

diagnose log restore cancel

2. To view the last log restore result or to check the status via the CLI, enter the following command:

diagnose log restore status

```
Request for log restore for device "<device>" from IP "<IP>" at <date and time>
Stopping processes.
Downloading files for device <device>...
Restore log file: <device>[root].dlog.1611248549.log.gz
Restore log file: <device>[root].elog.1611250406.log.gz
Restore log file: <device>[root].tlog.1611250406.log.gz
Restore log file: <device>[root].vlog.1611250406.log.gz
Restore log file: <device>[root].wlog.1611191194.log.gz
Update device <device> log files disk usage...
Restoration completed successfully.
Recommend to rebuild log database by 'exec sql-local rebuild-db'.
Restarting processes.
```

3. If the task is not complete yet, it can be stopped using the following command in the CLI:

diagnose log restore cancel

To implement "restoring logs" via the JSON API:

1. Add logrestore API:

```
request={
  'jsonrpc': '2.0',
  'params': [{
    'username': 'string',
    'service': 'ftp', 'filepath': 'string',
    'url': '/logview/logrestore', 'ip': 'ip_address',
    'logs-type': 'logs-only',
    'apiver': 3,
    'device': [{
      'devname': 'All_Device'
    }],
    'password': 'string'
  }],
  'id': '1',
  'method': 'add'
}
logs-type: logs-only logs-archive
response={jsonrpc': '2.0', 'result': {'status': {'message': 'succeeded', 'code': 0},
  'reqid': xxxxx, u'logs-only': 0}, 'id': '1'}
```

2. Get logrestore status by reqid:

```
request={"jsonrpc": "2.0", "session": "<session>", "params": [{"url": "/logview/log
restore/${reqid}", "apiver": 3}], "id": "1", "method": "get"}
```

The \${reqid} refer to the reqid in the response of "add logrestore".

```
response={
  "jsonrpc": "2.0", "result": {
    "task-status": "finished",
    "reqid": 1495138327,
    "data": {
      "message": "Request for log restore for device \"All_FortiGate\" from IP \"<ip
address>\" at 2023-06-13 10:58:58\n\nStopping processes. \n\nDownloading
files for device <device> (<device>[*])... \n No backup fi sk
usage...\nDownloading files for device <device> (<device>[*])... \n No
backup files for device <device>.\n\nUpdate device <device> log files disk
usage...\nDownloading files for device <device> (F e device <device> log
files disk usage...\nDownloading files for device <device> (<device>[*])...
```

```
        \n No backup files for device <device>. \n\nUpdate device <device> log
        files disk usage...\n\nRestora
    "device-result": {
        "device": [{
            "devid": "<device>",
            "status": "No backup files"
        }]
        "status": "Restoration completed successfully."
    }
},
"status": {
    "code": 0,
    "message": "succeeded"
}
},
"id": "1"
}
```

System

This section lists the new features added to FortiAnalyzer for system settings:

- [High Availability \(HA\) on page 121](#)
- [Administrators on page 124](#)
- [Others on page 130](#)

High Availability (HA)

This section lists the new features added to FortiAnalyzer for high availability (HA):

- [Geo-redundant High Availability \(HA\) on page 121](#)

Geo-redundant High Availability (HA)



This information is also available in the FortiAnalyzer 7.4 Administration Guide:

- [Geo-redundant HA](#)

An active-active mode is now available on FortiAnalyzer HA to help create a geo-redundant solution.

In FortiAnalyzer HA active-passive mode, a layer 2 connection is required between HA members in order to set up the HA cluster virtual IP. In active-active mode, however, a layer 2 connection is not required between data centers at different locations.

Below is a brief comparison between FortiAnalyzer HA in active-passive and active-active mode.

active-passive	active-active
Only the HA primary can receive logs and archive files from its directly connected device and forward them to HA secondary.	All HA members can receive logs and archive files from its directly connected device and forward logs and archive files to its HA peer.
Only the HA primary can forward data to the remote server.	All HA members can forward its directly received logs and archive file to the remote server.

In the examples below, the goal is to build an active-active geo-redundant layer 3 FortiAnalyzer HA cluster between two data centers. The FortiAnalyzer HA members are located in different places. They are communicating with each other via routers. There is no layer 2 connection.



Unicast must be enabled for the HA heartbeat in order for the cluster to operate in this mode. This setting can only be configured from the CLI. For more information on enabling the unicast heartbeat setting, see the [FortiAnalyzer CLI Reference](#).

When unicast is enabled, VRRP packets are sent to the peer address instead of the multicast address. VRRP (IP protocol 112) must be allowed through any connecting firewalls.

To build a geo-redundant FortiAnalyzer HA via the GUI:

1. In the first FortiAnalyzer, configure the primary in *System Settings > HA*.
 - For *Operation Mode*, select *Active-Active*.
 - For *Preferred Role*, select *Primary*.
 - Complete the other fields, including *Peer IP* and *Peer SN*.
 - Cluster Virtual IP (VIP) is optional. It requires a layer 2 connection between HA members. If VIP is not configured, select the interface which is used to communicate with the peer as *Heart Beat Interface*. You can click the X icon next to the VIP entry to remove it.

The screenshot shows the FortiAnalyzer GUI for a FortiAnalyzer M64-102. The left sidebar contains navigation options: Dashboard, Device Manager, FortiView, Log View, Fabric View, Incidents & Events, Reports, System Settings, ADOMs, Administrators, Admin Profiles, Remote Authentication Server, Fabric Management, SAML SSO, Settings, HA, Network, Event Logs, Certificates, and Advanced. The main content area is titled 'Cluster Status' and 'Cluster Settings'.

Cluster Status

Role	Serial Number	IP	Host Name	Uptime/Downtime	Initial Logs Sync	Configuration Sync	Message
<input type="checkbox"/> Primary	FAZ-VM64-102-7	192.168.2.102	FAZVM64-102	1d 0h 23m 42s	-	Config will be synced to secondaries	
<input type="checkbox"/> Secondary	FAZ-VM64-101-6	192.168.1.101	FAZVM64-101	23h 35m 20s	Done	In-Sync	

Cluster Settings

Operation Mode: Standalone Active-Passive **Active-Active**

Preferred Role: Secondary **Primary**

Cluster Virtual IP

IP Address and Interface	IP Address	Interface	Action
	10.2.60.93	port1	X +

Cluster Settings

Peer IP and Peer SN	Peer IP	Peer SN	Action
	192.168.1.101	FAZ-VM64-101-6	X +

Group Name: FAZVM64-HA

Group ID: 100 (1-255)

Password: *****

Heart Beat Interval: 4 Seconds

Heart Beat Interface: port1

Fallover Threshold: 12

Priority: 120 (80-120)

Log Data Sync: ☒

Apply

2. In the second FortiAnalyzer, configure the primary in *System Settings > HA*.
 - For *Operation Mode*, select *Active-Active*.
 - For *Preferred Role*, select *Secondary*.
 - Complete the other fields, including *Peer IP* and *Peer SN*.
 - Cluster VIP is optional. It requires a layer 2 connection between HA members. If VIP is not configured, select the interface which is used to communicate with the peer as *Heart Beat Interface*. You can click the X icon next

to the VIP entry to remove it.

To build a geo-redundant FortiAnalyzer HA via the CLI:

For more information about the FortiAnalyzer CLI commands, see the [FortiAnalyzer 7.4 CLI Reference](#).

1. Configure the FortiAnalyzer HA.

When configuring the FortiAnalyzer `system ha`, `set mode to a-a`. The `vip` is optional; if there is no layer 2 connection between HA members, `vip` will not work. In this case, `set hb-interface` as the interface which is used to communicate with the peer.

a. Configure the first FortiAnalyzer. In the CLI, enter the following commands:

```
config system ha
  set mode a-a
  set group-id 100
  set group-name "FAZVM64-HA"
  set hb-interface "port1"
  set unicast enable
  set password xxxxxx
  config peer
    edit 1
      set ip "192.168.1.101"
      set serial-number "FAZ-VM64-6"
    next
  end
  set preferred-role primary
  set priority 120
end
```

b. Configure the second FortiAnalyzer. In the CLI, enter the following commands:

```
config system ha
  set mode a-a
  set group-id 100
  set group-name "FAZVM64-HA"
  set hb-interface "port1"
  set unicast enable
  set password xxxxxx
  config peer
```

```
        edit 1
            set ip "192.168.2.102"
            set serial-number "FAZ-VMTM-----7"
        next
    end
end
```

2. If the alternate FortiAnalyzer can be configured on FortiGate, set `server` to the HA primary and set `alt-server` to the HA secondary. In the FortiGate CLI, enter:

```
config log fortianalyzer setting
    set status enable
    set ?
    ...
    *server                      The main remote FortiAnalyzer.
    alt-server                   The alternate remote FortiAnalyzer.
    ...
    set server 192.168.2.102
    set alt-server 192.168.1.101
    ...
end
```

3. If the alternate FortiAnalyzer cannot be configured on FortiGate, set `server` to a HA member which is reachable from the FortiGate or to the VIP address of the FortiAnalyzer HA, if any. In the FortiGate CLI, enter:

```
config log fortianalyzer setting
    set status enable
    ...
    set server 192.168.2.102 (or 10.2.60.93)
    ...
end
```

Administrators

This section lists the new features added to FortiAnalyzer for administrators:

- [A new restricted admin profile can be used to only change the administrators passwords 7.4.2 on page 124](#)
- [Per-ADOM admin profile 7.4.2 on page 127](#)

A new restricted admin profile can be used to only change the administrators passwords - 7.4.2

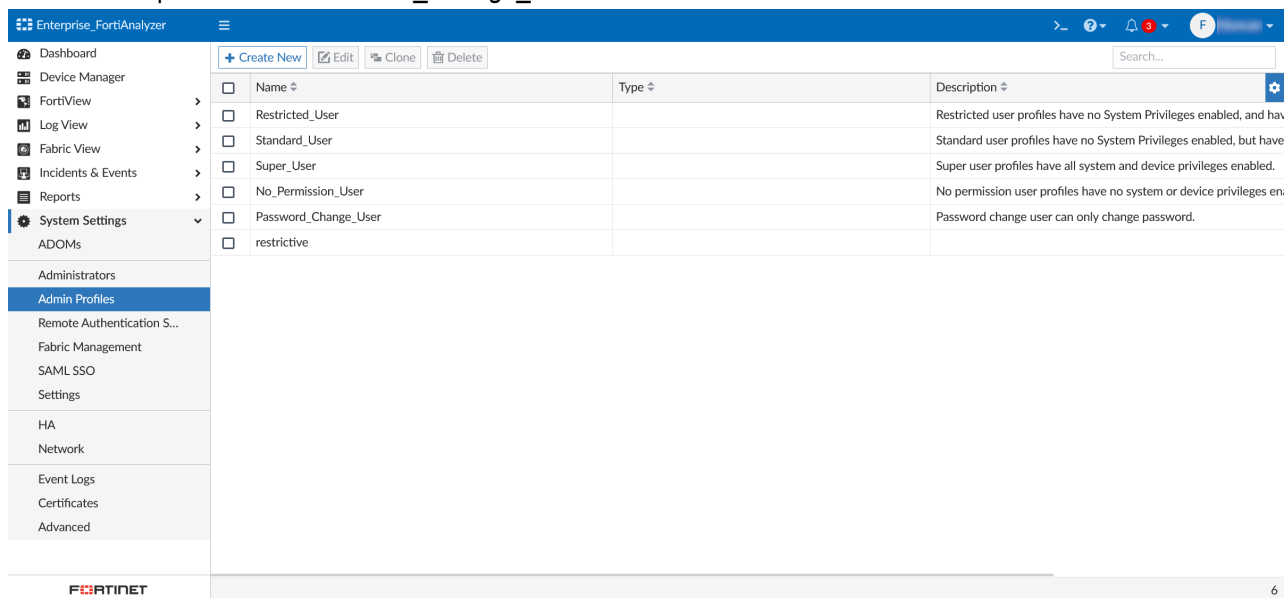


This information is also available in the FortiAnalyzer 7.4 Administration Guide:

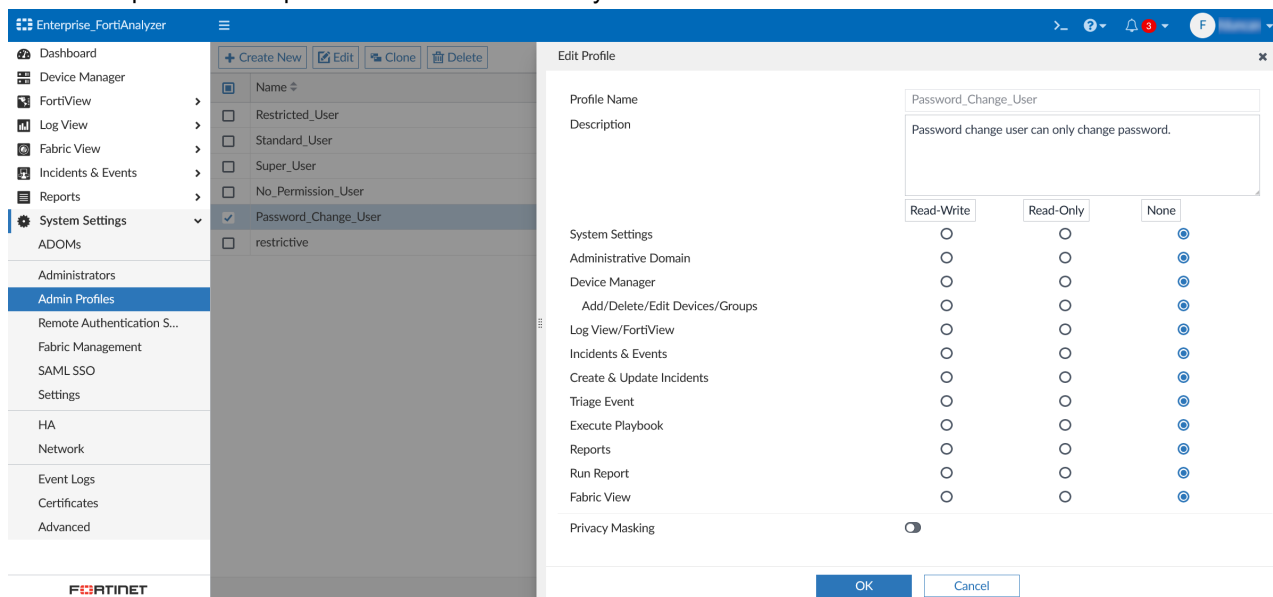
- [Administrator profiles](#)

A new restricted admin profile can be used to only change the administrators passwords.

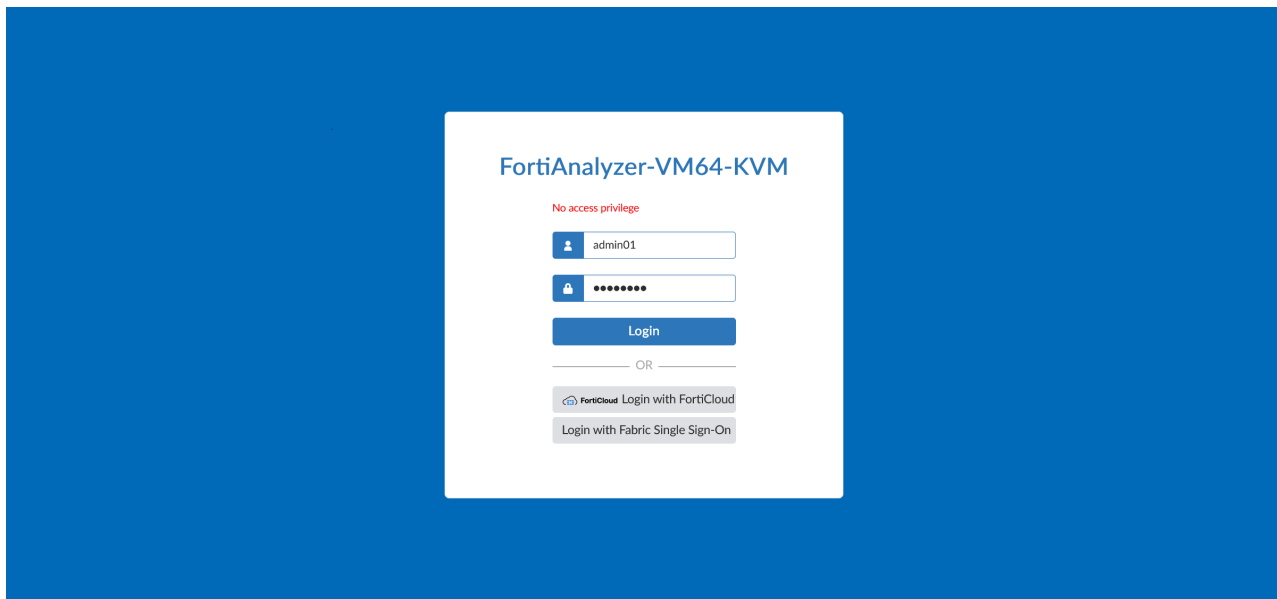
- A new admin profile called *Password_Change_User* has been added.



- The admin profile has all permissions in the FortiAnalyzer GUI set to *None*.



- The admin profile has the following permissions in the CLI:
 - `write-passwd-access`: Read/Write.
 - `rpc-permit`: Read/Write.
- When the admin profile is applied to a user, the user will see "No access privilege" when attempting to log into the FortiAnalyzer GUI.



- The user can only access FortiAnalyzer using the CLI or API. When logging in via CLI or API, the admin is able to change user's passwords.

To specify which user/profile passwords can be changed:

1. In the FortiAnalyzer CLI, enter the following commands to configure `write-passwd-access`:

```
config system admin profile
edit Password_Change_User
set write-passwd-access
all All users.
specify-by-profile Specify by profile.
specify-by-user Specify by user.
set write-passwd-access
```

There are 3 options, by default allow to change all user's password.

- **all:** `Password_Change_User` admins can change the password for all users.
- **specify-by-profile:** Only allow the password of users who are using these profiles to be changed.

```
set write-passwd-access specify-by-profile
set write-passwd-profiles
profileid Profile ID.
Restricted_User profile
Standard_User profile
Super_User profile
Package_User profile
No_Permission_User profile
Password_Change_User profile
profile1 profile
set write-passwd-profiles Restricted_User Standard_User profile1
```

In this example, `Restricted_User`, `Standard_User`, and `profile1` are selected. `Password_Change_User` admins can only change the password of users who are using the `Restricted_User`, `Standard_User`, or `profile1` profile. The user can't change password of users who are using the `Super_User` profile for instance.

- **specify-by-user:** Only allow the password of users in the list to be changed.

```
set write-passwd-access specify-by-user
set write-passwd-user-list
<userid> users
```

```

admin
test
test1
test2
test3
set write-passwd-user-list test test3

```

In this example, test and test3 are selected. *Password_Change_User* admins can only change the password of the test and test3 user. Users cannot change the password of admin, test1, or test2.

Per-ADOM admin profile - 7.4.2

A per-ADOM admin profile allows the administrator to log in on different ADOMs with different admin profiles.



This information is also available in the FortiAnalyzer 7.4 Administration Guide:

- [Creating administrators](#)

To assign a per-ADOM admin profile:

1. Create multiple ADOMs, as needed. In this example, adom1 and adom2 have been created.

Name	ADOM Type	Allocated Storage
Security Fabric (3)		
root	Fabric	50 GB
adom2	Fabric	5 GB
adom1	Fabric	5 GB
FortiGates (4)		
FortiProxy	FortiProxy	1000 MB
FortiFirewallCarrier	FortiFirewallCarrier	1000 MB
FortiFirewall	FortiFirewall	1000 MB
FortiCarrier	FortiCarrier	1000 MB
Other Device Types (12)		
Chassis	-	-
Syslog	Syslog	1000 MB
FortiWeb	FortiWeb	1000 MB
FortiSandbox	FortiSandbox	1000 MB
FortiManager	FortiManager	1000 MB
FortiMail	FortiMail	1000 MB
FortiDeceptor	FortiDeceptor	1000 MB
FortiDDoS	FortiDDoS	1000 MB
FortiClient	FortiClient	1000 MB
FortiCache	FortiCache	1000 MB
FortiAuthenticator	FortiAuthenticator	1000 MB

Edit ADOM - adom1

Name: adom1

Type: Fabric

Time Zone: System Time Zone

Description:

Devices: 0/128

+ Select Device

No record found.

Data Policy

Keep Logs for Analytics: 60 Days

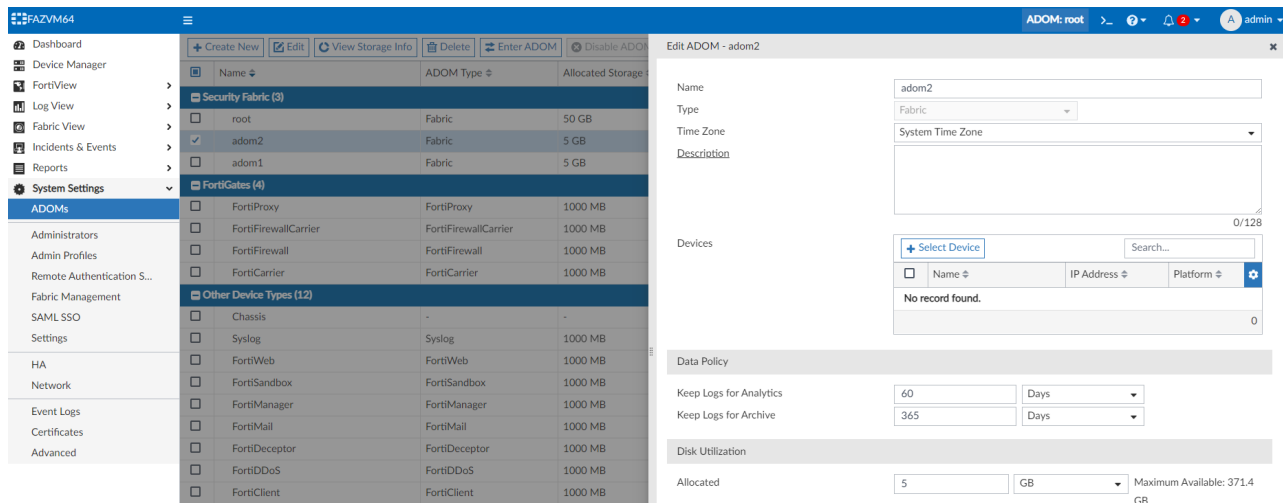
Keep Logs for Archive: 365 Days

Disk Utilization

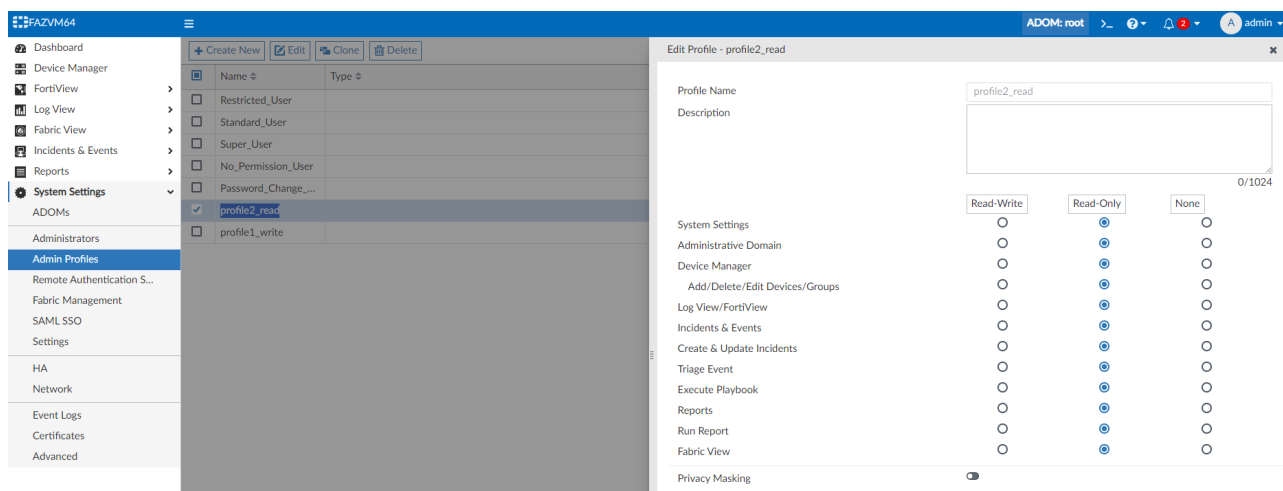
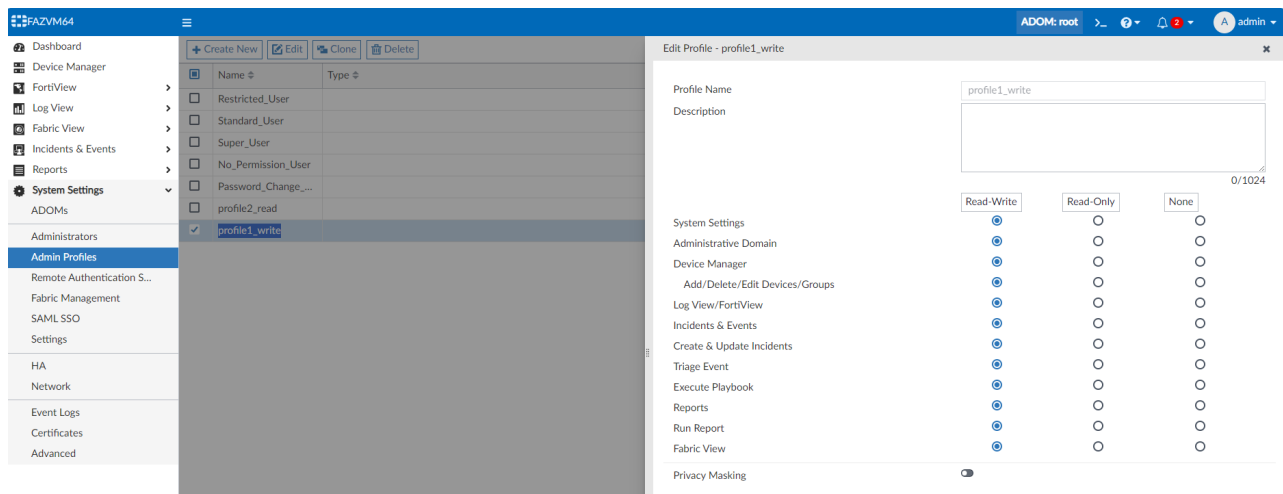
Allocated: 5 GB

Maximum Available: 371.4 GB

Analytics: Archive: 70% 30% Modify



2. Create multiple Admin Profiles with different access, as needed. In this example, `profile1_write` and `profile2_read` have been created.



3. Go to **System Settings > Administrators**, and click **Create New**.
Alternatively, you can select an existing administrator and click **Edit**.
4. For **Administrative Domain**, select **Specify** and select the ADOMs the user should have access to.

5. For *Admin Profile*, select *Per-ADOM*.

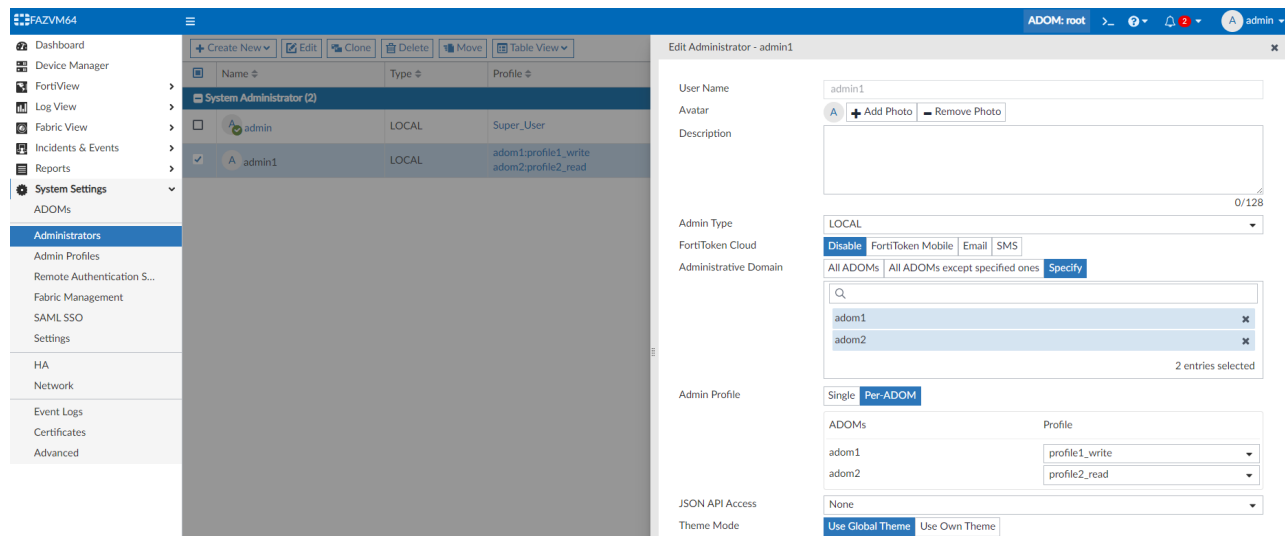
If *Single* is selected, the administrator will only have one admin profile for all ADOMs.

When *Per-ADOM* is selected, the *Admin Profile* setting displays the list of ADOMs that you specified access to for the administrator. A *Profile* dropdown is available for each ADOM.

6. Using the *Profile* dropdowns, select an admin profile for each ADOM.

The profile determines the administrator's access to the FortiAnalyzer features when they are in that ADOM.

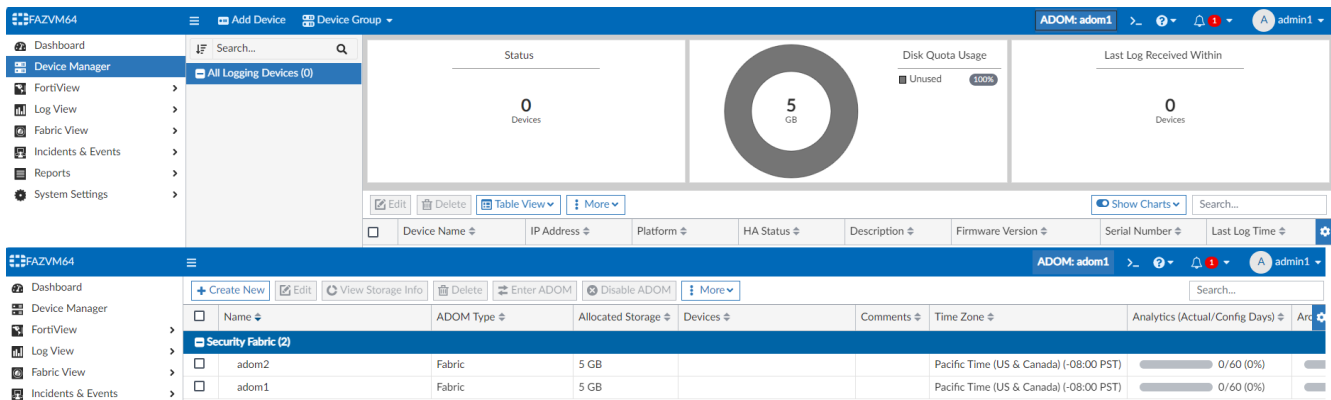
In the example below, a different profile is selected for each ADOM. The user `admin1` will have `profile1_write` access in `adom1` and `profile2_read` access in `adom2`.

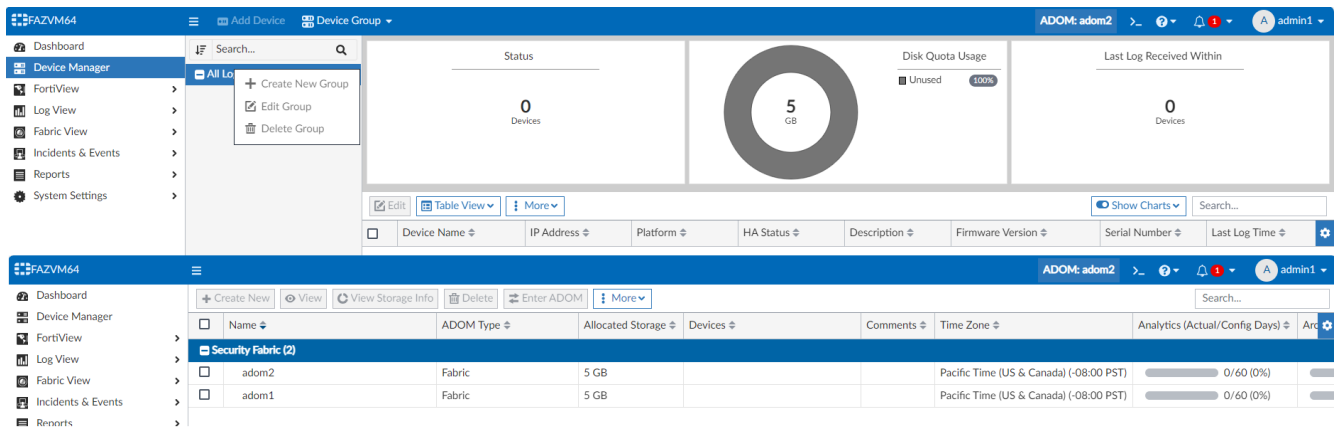


In *System Settings > Administrators*, the *Profile* column lists the profiles selected per-ADOM.

7. Configure the other settings for the administrator, and click OK.

In this example, `admin1` has write access in `adom1` and read access in `adom2`. See below.





Others

This section lists the new features added to FortiAnalyzer for other features relating to system settings:

- [FortiAnalyzer GUI enhancements on page 130](#)
- [Fabric of FAZ topology chart on page 134](#)
- [Fabric of FAZ: member authorization with supervisor on page 136](#)
- [Fabric of FAZ global FortiView support on page 141](#)
- [Fabric of FAZ: Central report support and creating Fabric groups on page 143](#)
- [Block out contract device from upgrading to next or major or minor release on page 146](#)
- [FortiManager and FortiAnalyzer support HTTP/2 for improved security, multiplexing, and reduced network latency 7.4.1 on page 148](#)
- [Backup strategy and configuration setup added to the FortiAnalyzer setup wizard 7.4.2 on page 150](#)

FortiAnalyzer GUI enhancements

To enhance the user experience and to align to FortiOS, the following changes have been added to the FortiAnalyzer GUI:

- Uses a new and customizable landing page (*Dashboard*)
- Uses Neutrino framework
- Adopts a 3-layer navigation, making all menus accessible via a single click

The *Dashboard* includes widgets, such as *Log Status* and *Alert Message Console*. You can toggle which widgets display from the *Toggle Widget* dropdown.

The screenshot shows the Enterprise_FortiAnalyzer dashboard. The left sidebar contains navigation links: Dashboard, Device Manager, FortiView, Log View, Fabric View, Incidents & Events, Reports, and System Settings. The main content area is divided into four panels:

- System Information:** Displays details about the device, including Host Name (Enterprise_FortiAnalyzer), Serial Number (FAZVMSTM), Platform Type (FAZVM64-KVM), HA Status (Standalone), System Time (Wed May 10 18:10:18 2023 PDT), Firmware Version (v7.4.0-build2220 230510 (Interim)), System Configuration (Last Backup: N/A), Current Administrator (Admin / 1 in total), Up Time (7 hours 21 minutes 51 seconds), and Administrative Dom (N/A).
- License Information:** Shows the status of various licenses: VMS License (VMS License), ADOM License (Not Licensed (0 Used / 5 Total)), FortiCloud (Registered), FortiGuard (Cloud Management), and Indicators of Compromise (Expiring in 25 days). It also shows Outbreak Detection (Licensed (Expires 2023-06-04)), Security Automation (Expiring in 25 days), and Industrial Security (Not Licensed (Trial)).
- Unit Operation:** Displays a grid of 12 status icons for different units, with a 'Restart' button and a 'Shutdown' button.
- System Resources:** Shows three donut charts for Average CPU Usage (18%), Memory Usage (47%), and Disk Usage (7%). A 'More Details' link is provided for each chart.

You can access other pages, such as *Device Manager*, from the left-pane navigation.

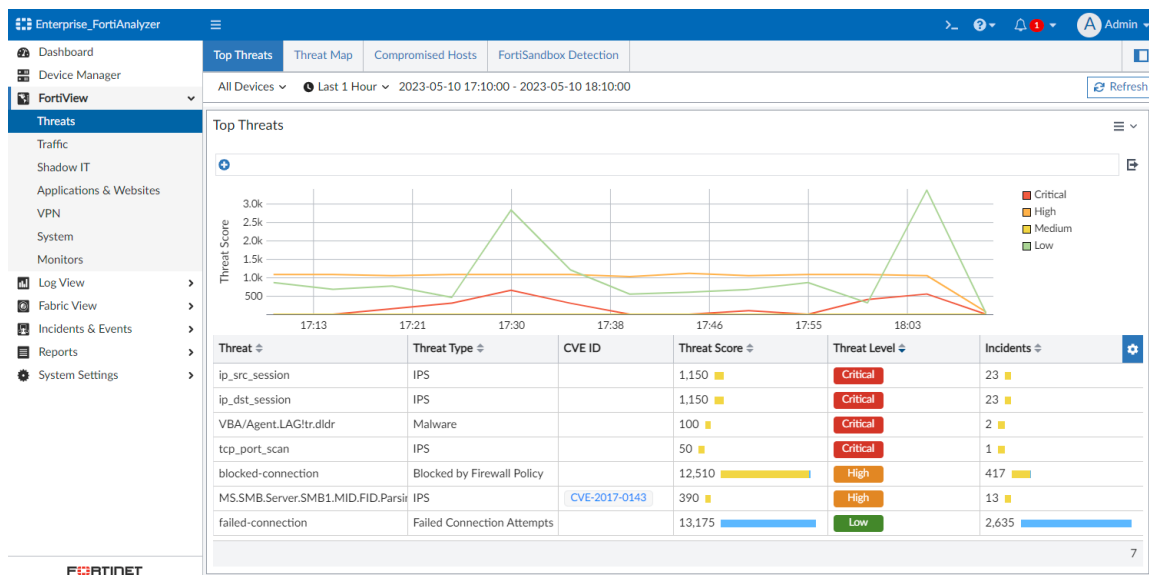
The screenshot shows the Enterprise_FortiAnalyzer Device Manager page. The left sidebar contains navigation links: Dashboard, Device Manager, FortiView, Log View, Fabric View, Incidents & Events, Reports, and System Settings. The main content area is divided into three panels:

- Connectivity:** A donut chart showing 8 Devices, with 6 Up and 2 Unknown.
- Disk Quot...:** A donut chart showing 32 GB of disk space usage, with a breakdown of usage by device type.
- Last Log R...:** A donut chart showing 8 Devices, with a breakdown of log retention time.

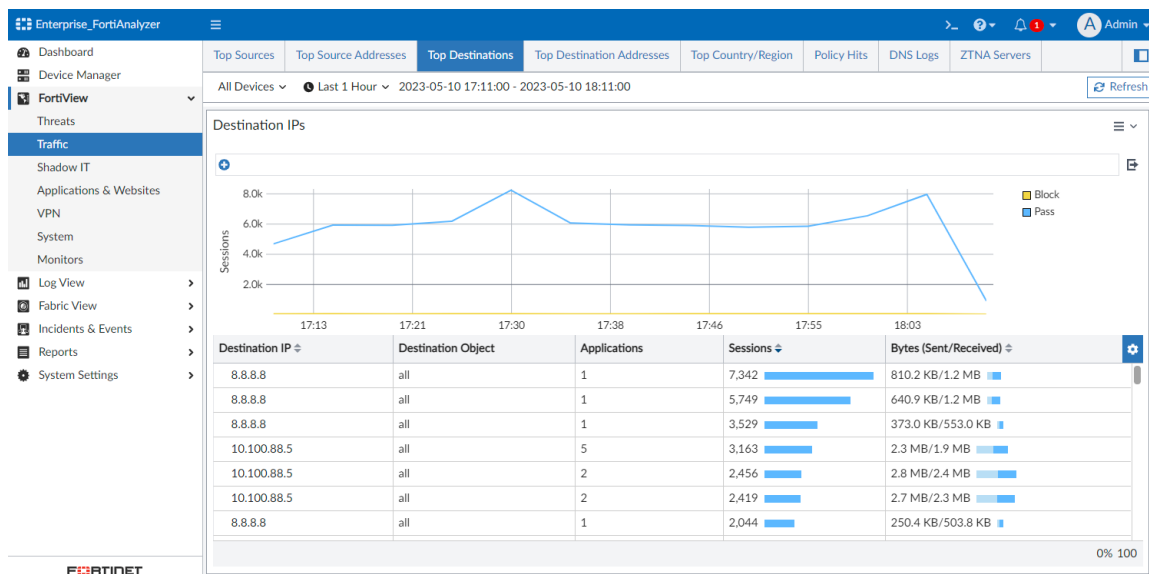
Below the charts is a table listing the devices:

Device Name	IP Address	Platform	HA Status	Description	Firmware Version
Enterprise_First_Floor	10.100.88.101	FortiGate-VM64...			FortiGate 7.2.4.build139
Enterprise_FortiMail	10.100.88.4	FortiMail-VM			FortiMail 6.6
Enterprise_FortiSandbox	10.100.88.13	FortiSandbox-VM			FortiSandbox 6.6
FGVM010000166969	10.100.55.25	FortiGate-VM64			FortiGate 5.2
Branch_Office_01	10.1.0.1	FortiGate-VM64...			FortiGate 7.2.4.build139
Branch_Office_02	10.2.0.1	FortiGate-VM64...			FortiGate 7.2.4.build139
Enterprise_Core*	10.100.88.1	FortiGate-VM64...			FortiGate 7.2.4.build139
Enterprise_Second_F	10.100.88.102	FortiGate-VM64...			FortiGate 7.2.4.build139

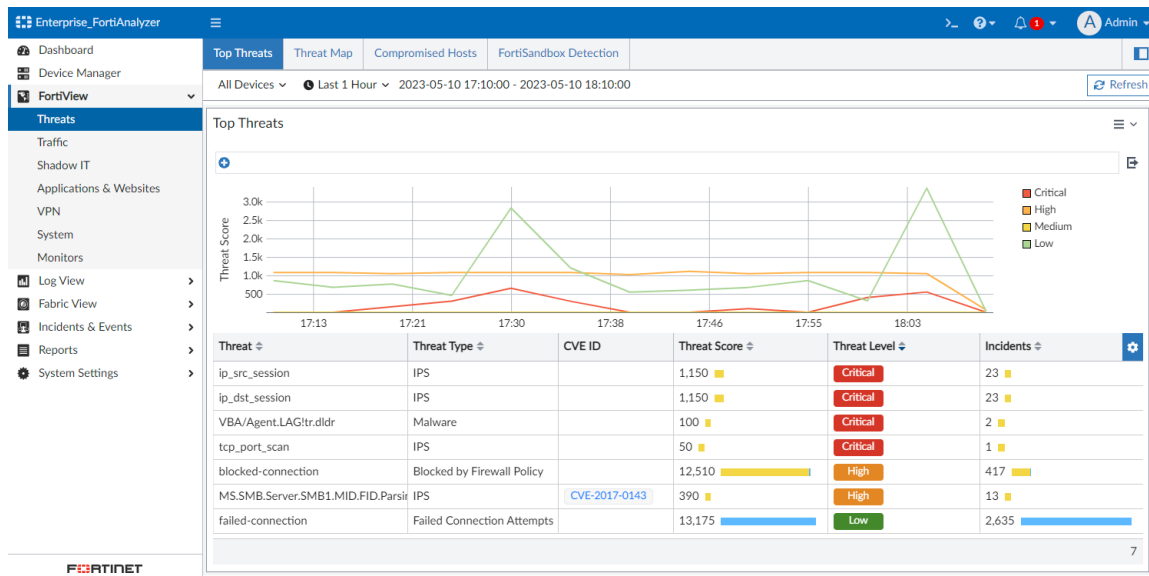
If there are sub-menus, as in *FortiView*, the left-pane navigation will expand to show other pages in that section.



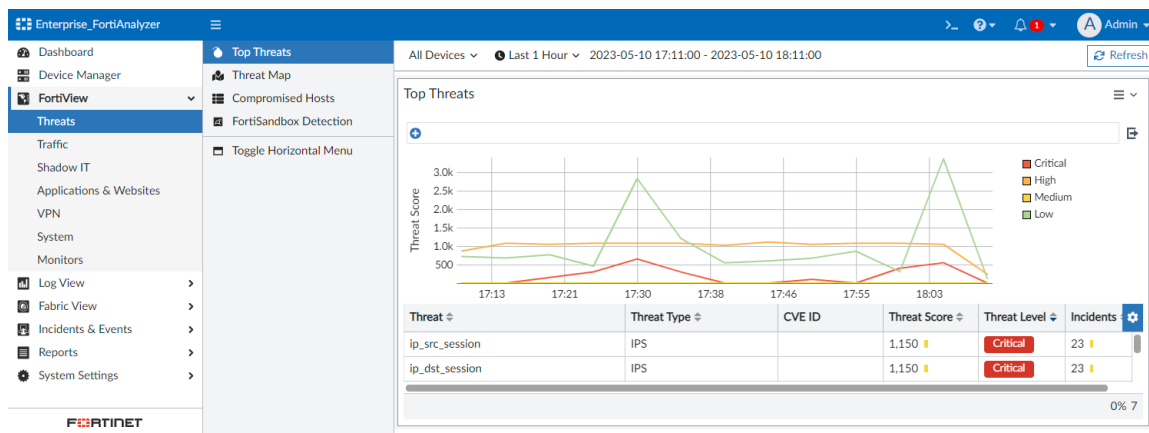
Further sub-menus may also be available along the top of the pane. For example, in the image below, the admin has navigated to *FortiView > Traffic > Top Destinations*.



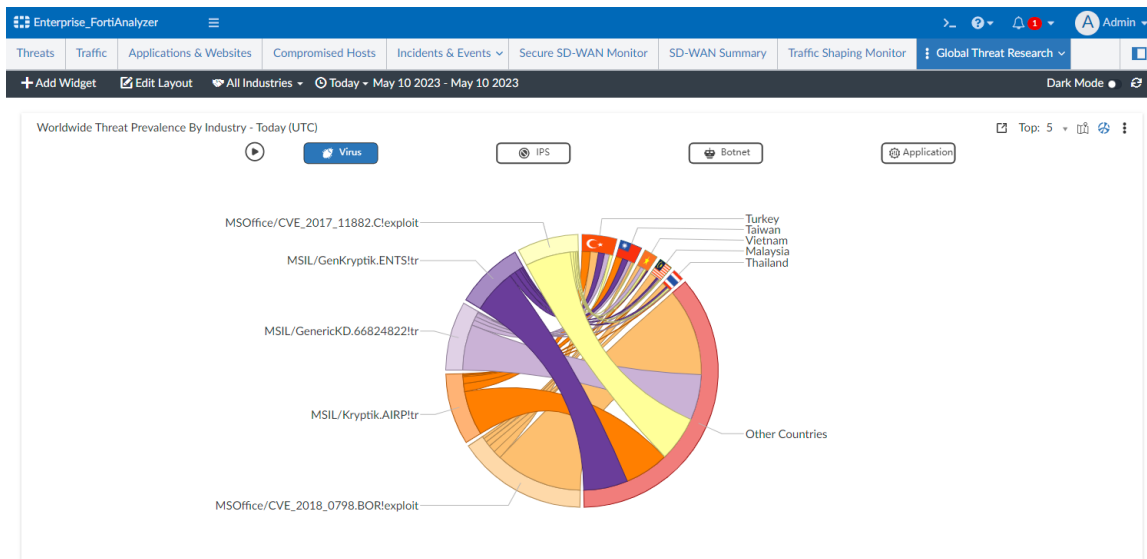
When available, you can click the horizontal view icon (⌵) to switch to a vertical display of the sub-menu. The sub-menu will then display in a left-pane navigation instead.



Click **Toggle Horizontal Menu** to return to the horizontal display at the top of the pane.



On any page in the GUI, you can click the menu icon (☰) to hide the left-pane navigation. Click the menu icon (☰) again to re-open the left-pane navigation.



Fabric of FAZ topology chart



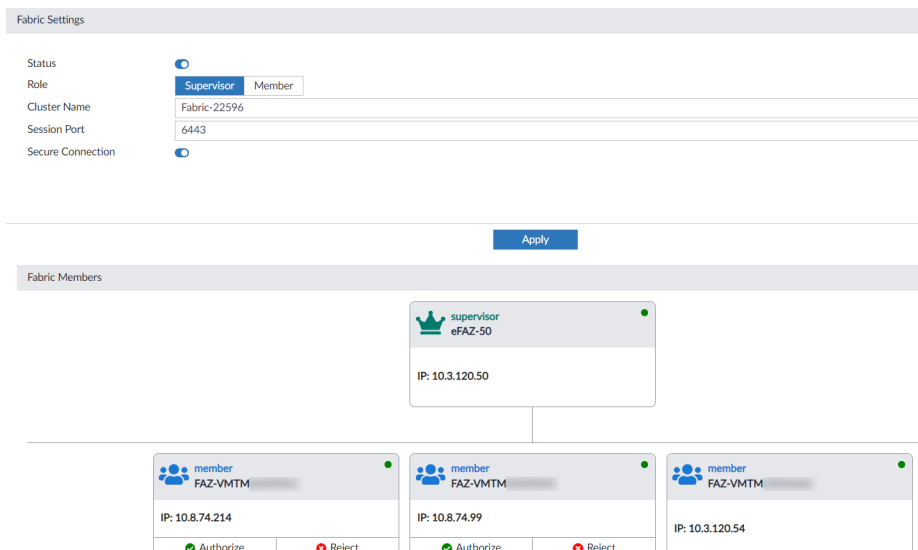
This information is also available in the FortiAnalyzer 7.4 Fabric Deployment Guide:

- [Configuring the FortiAnalyzer Fabric](#)

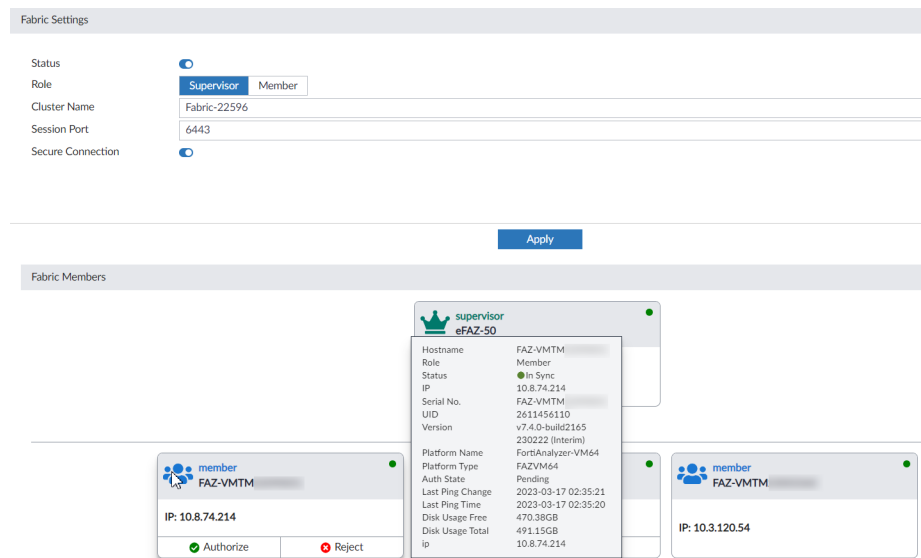
A FortiAnalyzer Fabric topology chart is displayed on the supervisor to quickly identify connected members and their corresponding status.

FortiAnalyzer Fabric supervisor:

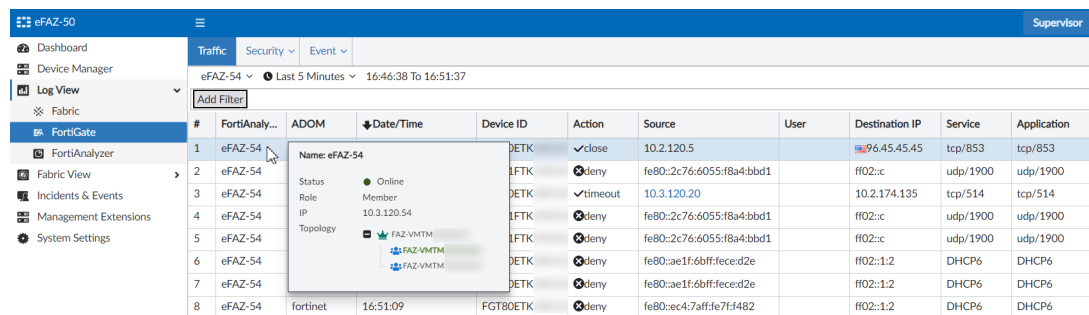
To view the topology on the supervisor, go to *System Settings > Fabric Management > Fabric Settings*. In the *Fabric Members* section, the topology displays all connected members.



You can hover over the role for a FortiAnalyzer in the topology to display more information in a tooltip.



You can also see the topology in the supervisor's **Log View**. Hover over a FortiAnalyzer in the *FortiAnalyzer Host Name* column to view the topology in a tooltip.



FortiAnalyzer Fabric member:


To view the topology on a member, go to **System Settings > Fabric Management > Fabric Settings**. In the **Fabric Members** section, the topology displays only the connection to the supervisor. It does not display the other members in the FortiAnalyzer Fabric.


Fabric Settings

Status	<input checked="" type="checkbox"/>
Role	Supervisor Member
Cluster Name	Fabric-22596
IP	10.2.120.50
Session Port	6443
Secure Connection	<input checked="" type="checkbox"/>
Authorization	Accepted

Apply

Fabric Members

 supervisor
FAZ-VMTM
IP: 10.3.120.50

 member
eFAZ-54
IP: 10.3.120.54

Fabric of FAZ: member authorization with supervisor



This information is also available in the FortiAnalyzer 7.4 Fabric Deployment Guide:

- [Configuring the FortiAnalyzer Fabric](#)

The FortiAnalyzer Fabric authentication process has been enhanced by implementing the following:

- Members can join the FortiAnalyzer Fabric by entering the cluster name and IP of the supervisor. No static password is required.
- The supervisor can authorize and reject members from joining the FortiAnalyzer Fabric.
- A `trusted-list` can be configured on the FortiAnalyzer Fabric supervisor to automatically authorize members if they match the configured serial number.
- A `trusted-list` can be configured on FortiAnalyzer Fabric members, so that they will join the FortiAnalyzer Fabric only if the supervisor matches the configured serial number.

FortiAnalyzer Fabric supervisor:

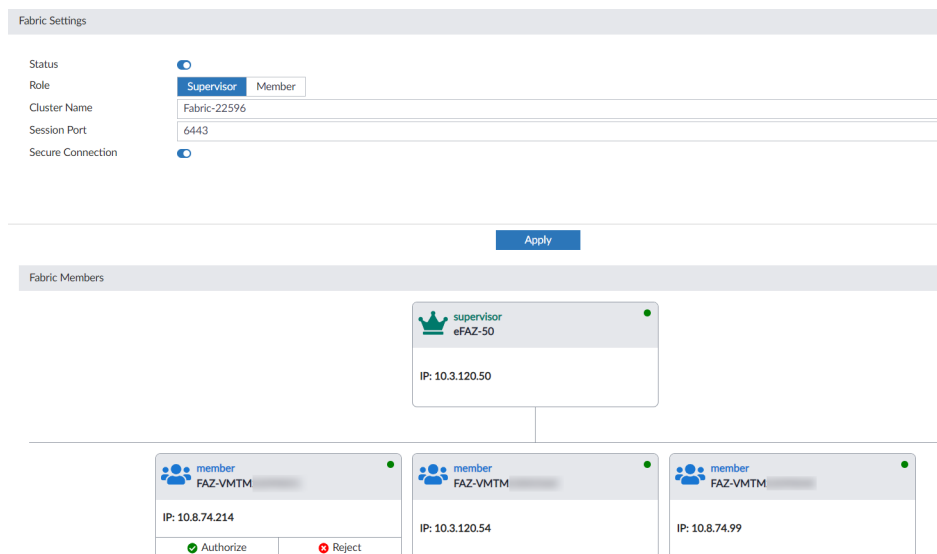
When configuring a FortiAnalyzer Fabric supervisor in *System Settings > Fabric Management*, there is no password configuration in the *Fabric Settings*.

Fabric Settings

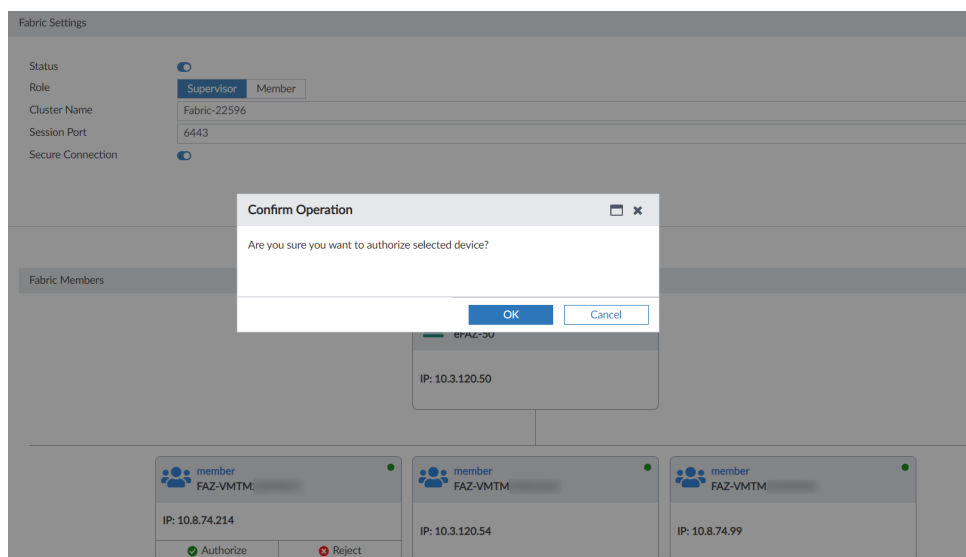
Status	<input checked="" type="checkbox"/>
Role	Supervisor Member
Cluster Name	Fabric-22596
Session Port	6443
Secure Connection	<input checked="" type="checkbox"/>

Apply

When members join the FortiAnalyzer Fabric, they will display in the topology for the supervisor. From this topology in the supervisor, you can authorize or reject the members.



If authorized, the member will join the FortiAnalyzer Fabric and it will remain visible in the topology.



Fabric Settings

Status

Role

Supervisor Member

Cluster Name

Fabric-22596

Session Port

6443

Secure Connection

Apply

Fabric Members

supervisor

eFAZ-50

IP: 10.3.120.50

member

FAZ-VMTM

IP: 10.8.74.214

member

FAZ-VMTM

IP: 10.3.120.54

member

FAZ-VMTM

IP: 10.8.74.99

If rejected, the member will be removed from topology and it will be blocked from attempting to re-join the FortiAnalyzer Fabric for 10 minutes.

Fabric Settings

Status

Role

Supervisor Member

Cluster Name

Fabric-22596

Session Port

6443

Secure Connection

Confirm Operation

Are you sure you want to reject selected device?

OK Cancel

Fabric Members

eFAZ-50

IP: 10.3.120.50

member

FAZ-VMTM

IP: 10.3.120.204

Authorize Reject

member

FAZ-VMTM

IP: 10.8.74.214

member

FAZ-VMTM

IP: 10.3.120.54

Fabric Settings

Status

☒

Role

Supervisor

Member

Cluster Name

Fabric-22596

Session Port

6443

Secure Connection

☒

Apply

Fabric Members

supervisor

eFAZ-50

IP: 10.3.120.50

member

FAZ-VMTM

IP: 10.8.74.214

member

FAZ-VMTM

IP: 10.3.120.54

member

FAZ-VMTM

IP: 10.8.74.99

FortiAnalyzer Fabric members:

When joining a FortiAnalyzer Fabric as a member, go to *System Settings > Fabric Management*. You do not need to enter a password. Instead, enter the cluster name and IP of the supervisor.

Fabric Settings

Status

☒

Role

Supervisor

Member

Cluster Name

Fabric-22596

IP

10.2.120.50

Session Port

6443

Secure Connection

☒

Apply

After configuring the FortiAnalyzer as a member, the *Authorization* field will display *Pending*.

Fabric Settings

Status

☒

Role

Supervisor

Member

Cluster Name

Fabric-22596

IP

172.18.78.50

Session Port

Secure Connection

☒

Authorization

Pending

Apply

Once the member is authorized by the supervisor, the *Authorization* field will change to *Accepted*. The topology will display this member and the supervisor, but it will not display other members in the FortiAnalyzer Fabric.

Fabric Settings

Status

☒

Role

Supervisor

Member

Cluster Name

Fabric-22596

IP

172.18.78.50

Session Port

Secure Connection

☒

Authorization

Accepted

Apply

Fabric Members

SUPERVISOR

FAZ-VMTM

IP: 10.3.120.50

MEMBER

FAZ-VMTM

IP: Local

If the member is rejected by the supervisor, the *Authorization* field will change to *Rejected*. The member must wait 10 minutes before sending another request to join the FortiAnalyzer Fabric. To try again, click apply after the block-out time is complete.

Fabric Settings

Status

☒

Role

Supervisor

Member

Cluster Name

Fabric-22596

IP

10.2.120.50

Session Port

6443

Secure Connection

☒

Authorization

Rejected

Apply

To leave a FortiAnalyzer Fabric, go to *System Settings > Fabric Management > Fabric Settings* in the member and set the *Status* to disabled. A message will display to confirm the action.

Fabric Settings

Status

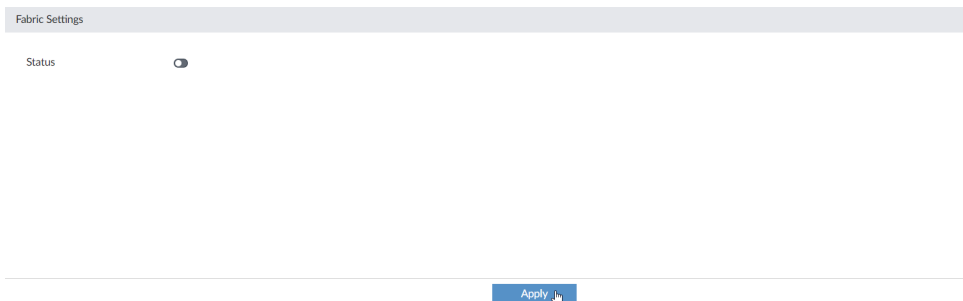
☒

Leaving FortiAnalyzer Fabric?

If you proceed, you will be leaving the FortiAnalyzer Fabric. Are you sure you want to leave?

Confirm Cancel

After confirming the message, click *Apply* to save the configuration.



If needed, the member can re-join the FortiAnalyzer Fabric, but it will need to be authorized by the supervisor again.

Trusted-list for a FortiAnalyzer Fabric:

The `trusted-list` configuration is completed on the CLI for both the supervisor and the members.

In the supervisor's CLI, you can add members' serial numbers to a `trusted-list`. This supports wildcard; for example, `FAZ-VMTM120033*`. Once a member's serial number is added to the `trusted-list`, that FortiAnalyzer can automatically join the FortiAnalyzer Fabric as a member without the supervisor's authorization.

To add a member to the `trusted-list`, enter the following command in the supervisor's CLI:

```
config system soc-fabric
config trusted-list
edit 1
set serial <member's serial number, which can include wildcards (*)>
end
end
```

In the member's CLI, you can configure a `trusted-list` with the supervisor's serial number to verify the legitimacy of the supervisor. This prevents data leakage to a falsified supervisor. Members will only join the FortiAnalyzer Fabric when the supervisor's serial number matches the members `trusted-list`.

To configure a `trusted-list` on a member, enter the following command in the member's CLI:

```
config system soc-fabric
config trusted-list
edit 1
set serial <Supervisor's serial number>
end
end
```

For members without a `trusted-list` configured, they will treat all supervisors as legitimate.

Fabric of FAZ global FortiView support

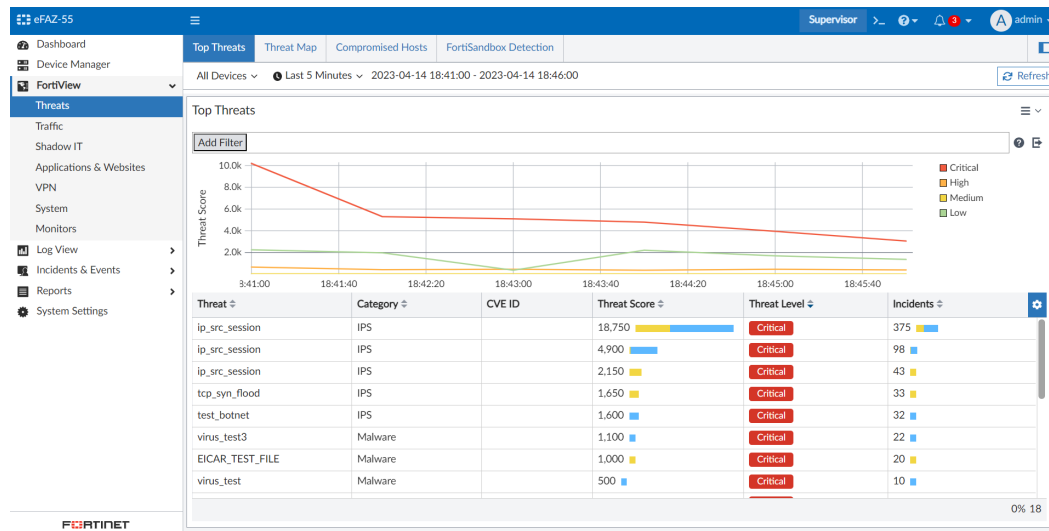


This information is also available in the FortiAnalyzer 7.4 Fabric Deployment Guide:

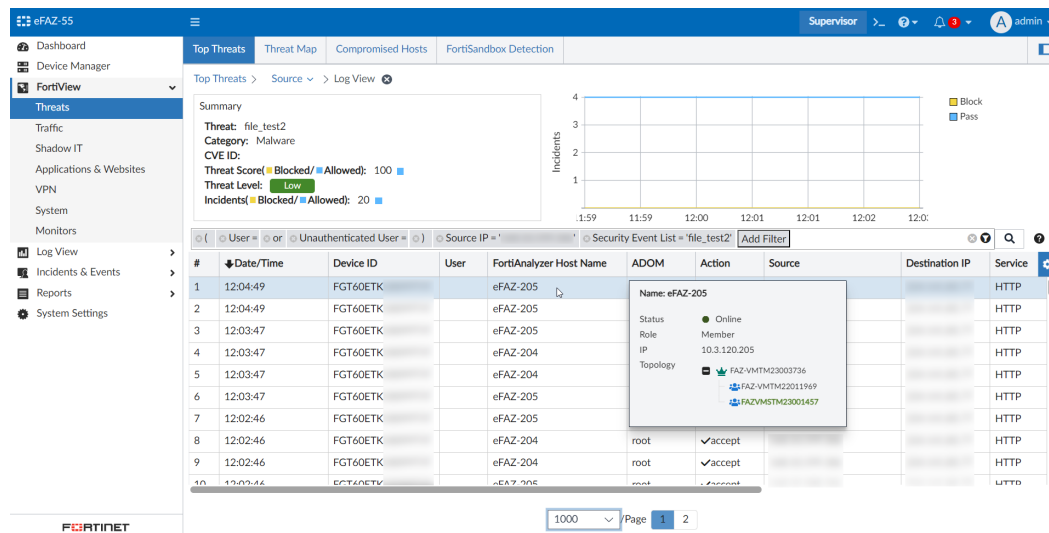
- [FortiView](#)

The FortiAnalyzer supervisor allows you to see FortiView analytics across the entire FortiAnalyzer Fabric. For more granular analysis, you can filter by the FortiAnalyzer members or ADOMs.

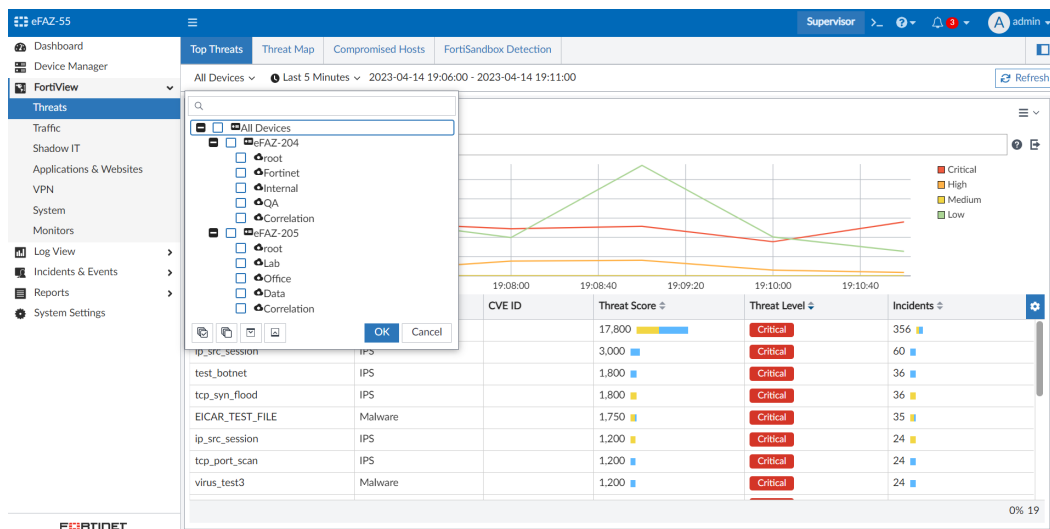
In the FortiAnalyzer Fabric supervisor, go to the *FortiView* panes. The information in these panes are generated from all members in the Fabric cluster. See the below example of *FortiView > Threats > Top Threats*.



Double-click an entry to drill down to a *Log View* of the information. In this view, you can determine the member using the *FortiAnalyzer Host Name* column.



You can also filter the *FortiView* panes by the Fabric members or ADOMs in the device list.



Fabric of FAZ: Central report support and creating Fabric groups



This information is also available in the FortiAnalyzer 7.4 Fabric Deployment Guide:

- [Reports](#)
- [Fabric Groups](#)

Reports can now be executed from the Fabric supervisor that fetches and aggregates data from multiple FortiAnalyzer Fabric members. Reports are centrally visible on the supervisor.

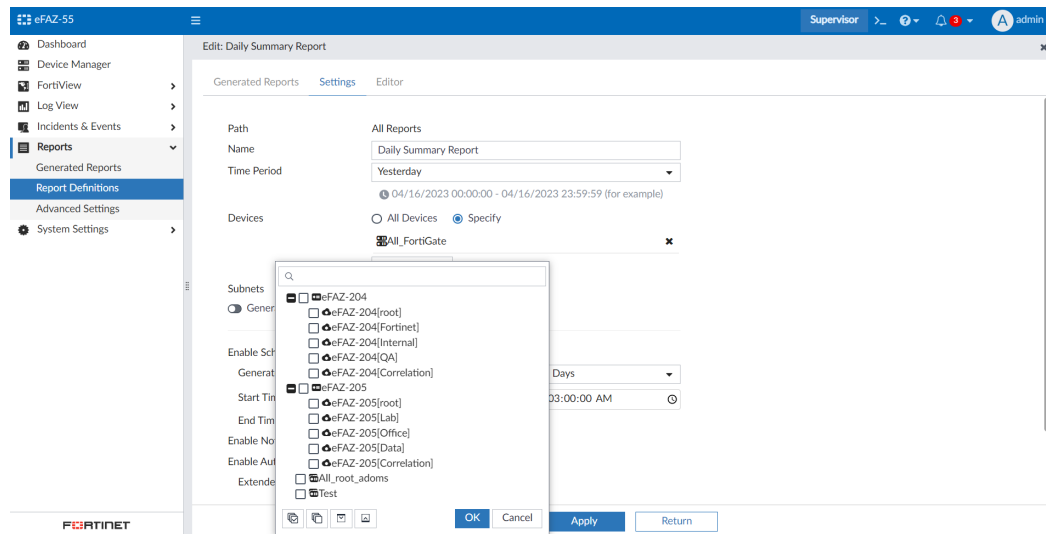
Additionally, FortiAnalyzer Fabric members or ADOMs can be grouped in a Fabric Group, which can be used in the *Log View*, *FortiView* and *Reports* device filter.

Reports:

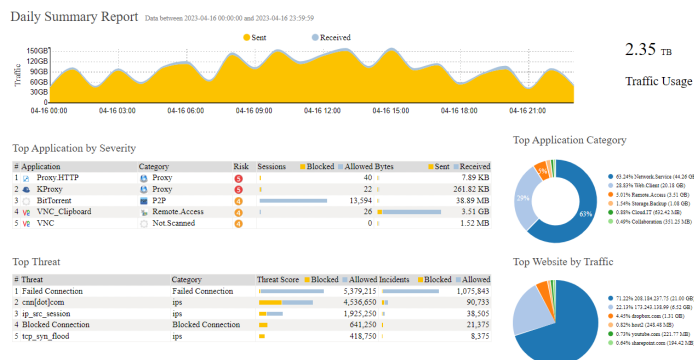
The *Reports* panes are available in the FortiAnalyzer Fabric supervisor.

Title	Language	Cache Status	Time Period	Devices	Schedule	Config Recommendation	Outbreak
<input type="checkbox"/> Application Reports							
<input type="checkbox"/> Asset and User Reports							
<input type="checkbox"/> Compliance Reports							
<input type="checkbox"/> Fabric Reports							
<input type="checkbox"/> FortiCache Reports							
<input type="checkbox"/> FortiClient Reports							
<input type="checkbox"/> FortiDDoS Reports							
<input type="checkbox"/> FortiDeceptor Reports							
<input type="checkbox"/> FortiFirewall Reports							
<input type="checkbox"/> FortiGate Reports							
<input type="checkbox"/> FortiMail Reports							
<input type="checkbox"/> FortiNAC Reports							
<input type="checkbox"/> FortiNDR Reports							
<input type="checkbox"/> FortiProxy Reports							
<input type="checkbox"/> FortiSandbox Reports							
<input type="checkbox"/> FortiWeb Reports							
<input type="checkbox"/> Network Reports							
<input type="checkbox"/> Outbreak Alert Reports							

In the supervisor, you can edit a report to specify which devices (Fabric members, ADOMs, and Fabric Groups) to include when running the report.



The reports' formats, charts, and tables are the same as a regular FortiAnalyzer's, but they include aggregated results from all the selected members.



To create a Fabric Group in a FortiAnalyzer Fabric:

1. In the FortiAnalyzer Fabric supervisor, go to *System Settings > Fabric Management > Fabric Groups*.

+ Create New		[Edit]	[Delete]	<input type="text" value="Search..."/>		
Device Name ▾	IP Address ▾	Platform ▾	Logs ▾	Average Log Rate(Logs/... ▾	Device Storage ▾	Description ▾
[-] <input checked="" type="checkbox"/> All_root_adoms 2						
eFAZ-204	10.3.120.204	FortiAnalyzer-VM64				
root						
eFAZ-205	10.3.120.205	FortiAnalyzer-VM64				
root						

2. Click *Create New*.
3. In the *Group Name* field, enter a name for the Fabric Group.
4. In the *Add Member* section, select the FortiAnalyzer Fabric members to include.

To add only specific ADOMs from the member, expand the member in the list and select the ADOMs to include.

Create Fabric Group

Group Name

Test

Description

Add Member

Q

eFAZ-204

eFAZ-205

☐ Correlation

☒ Data

☐ FortiAnalyzer

☐ FortiAuthenticator

☐ FortiCache

☐ FortiCarrier

2 entries selected

OK

Cancel

- 5. Click OK.**
The Fabric Group can now be edited or deleted from the table.

<div><div><div>+ Create New</div><div><div><div><div></div></div><div>Edit</div></div><div><div><div></div></div><div>Delete</div></div></div></div></div>					<div>Search...</div>	
Device Name ▾	IP Address ▾	Platform ▾	Logs ▾	Average Log Rate(Logs/... ▾	Device Storage ▾	Description ▾
All_root_adoms 2						
<div><div>eFAZ-204</div><div></div></div>	10.3.120.204	FortiAnalyzer-VM64				
<div><div>root</div><div></div></div>						
<div><div>eFAZ-205</div><div></div></div>	10.3.120.205	FortiAnalyzer-VM64				
<div><div>root</div><div></div></div>						
Test 2						
<div><div>eFAZ-204</div><div></div></div>	10.3.120.204	FortiAnalyzer-VM64				
<div><div>QA</div><div></div></div>						
<div><div>FGT61F-V64</div><div></div></div>	10.2.60.43	FortiGate-61F	<div><div></div><div>Real Time</div></div>	N/A	<div><div></div><div>0%</div></div>	
<div><div>FGT101E-2</div><div></div></div>	10.2.60.41	FortiGate-101E	<div><div></div><div>Real Time</div></div>	N/A	<div><div></div><div>0.2%</div></div>	
<div><div>eFAZ-205</div><div></div></div>	10.3.120.205	FortiAnalyzer-VM64				
<div><div>root</div><div></div></div>						
<div><div>eFGT-HA_FGVULV</div><div></div></div>	10.3.120.201	FortiGate-VM64	<div><div></div><div>Real Time</div></div>	N/A	<div><div></div><div>0%</div></div>	
<div><div>SYSLOG-0A0378...</div><div></div></div>	10.3.120.232	Syslog-Device	<div><div></div><div>Real Time</div></div>	N/A	<div><div></div><div>0%</div></div>	
<div><div>FG100D3G12800...</div><div></div></div>	10.2.0.150	FortiGate-100D	<div><div></div><div>Real Time</div></div>	N/A	<div><div></div><div>0%</div></div>	
<div><div>FortiGate-1500D</div><div></div></div>	10.2.0.250	FortiGate-1500D	<div><div></div><div>Real Time</div></div>	N/A	<div><div></div><div>0%</div></div>	
<div><div>FG3K6ETB19900...</div><div></div></div>	10.2.0.250	FortiGate-3600E	<div><div></div><div>Real Time</div></div>	N/A	<div><div></div><div>0%</div></div>	
<div><div>eFGT-201</div><div></div></div>	10.3.120.201	FortiGate-VM64	<div><div></div><div>Real Time</div></div>	N/A	<div><div></div><div>0%</div></div>	

The Fabric Group is also visible in *Device Manager*.

The screenshot displays the Fortinet FortiAnalyzer web interface. The top navigation bar includes links for Dashboard, Device Manager, Log View, Incidents & Events, Reports, and System Settings. The main dashboard area features several circular gauges and charts:

- All Logging Devices**: A donut chart showing 125 devices, categorized by Fabric M... (blue) and eFA... (orange).
- Unauthorized Devices**: A donut chart showing 10 devices, categorized by eFA... (blue) and eFA... (orange).
- Device T...**: A donut chart showing 125 devices, categorized by Forti... (purple), Forti... (pink), Forti... (yellow), Forti... (green), and Forti... (red).
- Status**: A donut chart showing 125 devices, categorized by Off... (green) and On... (red).
- Critical ...**: A donut chart showing 6,710 alerts, categorized by Critical... (blue) and Critical... (red).

Below the dashboards is a table titled "Show Charts" with columns for Name, IP Address, Platform, Logs, Serial Number, Average Log Rate/Logs/s..., Device Storage, and Description. The table lists various FortiGate and FortiClient devices and their associated logs.

Name	IP Address	Platform	Logs	Serial Number	Average Log Rate/Logs/s...	Device Storage	Description
FortiAnalyzer-VM64	10.3.120.204	FortiAnalyzer-VM64		FAZ-VMTM			
eFGT-HA_FGVULV	10.3.120.201	FortiGate-VM64	Real Time	FGVULVTM	N/A	0%	
PWF61E-V64	10.2.0.250	FortiWiFi-61E	Real Time	FWF61ETK	5	7.39%	
FW-93-FCT	192.168.125.1	FortiGate-VM64	Real Time	FGVM04TM	5	7.39%	
FG100D3G12800081	10.2.0.150	FortiGate-100D	Real Time	FG100D3G	N/A	0%	
FortiGate-1500D	10.2.0.250	FortiGate-1500D	Real Time	FG15D3I	N/A	0%	
FG3K6GTB1P900075	10.2.0.250	FortiGate-3600E	Real Time	FG3K6GTB	N/A	0%	
FCTEM50000114212	10.3.120.247	FortiClient-EMS	Real Time	FCTEM50000	N/A	0.04%	
eFGT-80E	10.3.120.254	FortiGate-80E	Real Time	FGT80ETK	3	2.89%	

It can be selected in the device filter for *FortiView*, *Log View*, and *Reports*. See an example in *Log View* below.

User	FortiAnalyzer Host Name	ADOM	Action	Source	Destination IP	Service
eFAZ-204	QA	✓accept	192.168.1.119	10.2.60.103	tcp/514	
eFAZ-205	root	✗deny	fe80::2c76:6055:f8a4:bbd1	#02:c	udp/1900	
eFAZ-205	root	✓close	10.3.120.29	96.45.46.46	tcp/853	
eFAZ-205	root	✗deny	fe80::2c76:6055:f8a4:bbd1	#02:c	udp/1900	
eFAZ-205	root	✗deny	fe80::2c76:6055:f8a4:bbd1	#02:c	udp/1900	
eFAZ-205	root	✓close	10.3.120.29	96.45.46.46	tcp/853	
eFAZ-204	QA	✗deny	0.0.0.0	255.255.255.255	DHCP	
rachel	eFAZ-204	QA	✓close	rachel (10.212.137.200)	10.2.90.106	HTTPS
rachel	eFAZ-204	QA	✓accept	192.168.1.101	192.168.2.102	tcp/514
rachel	eFAZ-204	QA	client-rst	rachel (10.212.137.200)	10.2.60.82	HTTPS
eFAZ-205	root	✗deny	fe80::2c76:6055:f8a4:bbd1	#02:c	udp/1900	
eFAZ-205	root	✗deny	fe80::2c76:6055:f8a4:bbd1	#02:c	udp/1900	
eFAZ-204	QA	✗deny	10.2.175.110	10.2.175.255	udp/138	
eFAZ-204	QA	✗deny	0.0.0.0	255.255.255.255	DHCP	
rachel	eFAZ-204	QA	client-rst	rachel (10.212.137.200)	10.2.90.106	HTTPS
eFAZ-204	QA	✗deny	10.2.60.107	255.255.255.255	udp/6666	
eFAZ-204	QA	✗deny	0.0.0.0	255.255.255.255	DHCP	

Block out contract device from upgrading to next or major or minor release



This information is also available in the FortiAnalyzer 7.4 Administration Guide:

- [Updating the system firmware](#)

To view available FortiGuard images:

1. A FortiAnalyzer with a valid contract will display all available FortiGuard images and allow upgrading or downgrading to any version.

- System Settings:

Firmware Management

Current Version

v7.0.3-build1362 230210 (Interim)

Upload Firmware

Add files by drag & drop here or [Add Files](#)

FortiGuard Firmware

7.2.2 (1334)

Backup Configuration

Encryption

7.2.2 (1334)

7.2.1 (1215)

7.2.0 (1124)

7.0.4 (306)

7.0.3 (254)

7.0.2 (180)

6.4.10 (2549)

6.4.9 (2513)

OK

Cancel

2. A FortiAnalyzer without a valid contract or with an expired contract will only display available patch images and support patch upgrades.

- System Settings:

Firmware Management

Current Version: v7.0.3-build0237 230215 (Interim)

Upload Firmware: Add files by drag & drop here or [Add Files](#)

FortiGuard Firmware: 7.0.4 (306)

Backup Configuration:

Encryption:

7.0.4 (306) ✓

7.0.3 (254)

7.0.2 (180)

OK Cancel

FortiManager and FortiAnalyzer support HTTP/2 for improved security, multiplexing, and reduced network latency - 7.4.1

FortiManager and FortiAnalyzer support HTTP/2 for improved security, multiplexing, and reduced network latency.

- Before this feature was implemented, HTTP/1.1 is used and can be viewed in the browser's Web Developer Tools:

System Information

Host Name	FMG-VM64
Serial Number	
Platform Type	FMG-VM64
HA Status	Standalone
System Time	Thu Sep 14 16:27:16 2023
PDT	
Firmware Version	v7.4.1-build2308 230831 (GA)
System Configuration	Last Backup: [icon]

License Information

VM License	Valid UUG
FortiCloud	Registered
FortiGuard	
VM Meter Service	Not Licensed
Server Location	Servers located in US only
Management	
Devices/VDOMs	0 / 1,000,000,000 (0.0%)

System Resources

verage CPU Usage	19%
Memory Usage	45%
Disk Usage	5%

Network

Status	Method	Domain	File	Protocol	Initiator	Type	Transferred	Size	Duration
200	POST	10.2.171.1	flatui_auth	HTTP/1.1	fi-session.js:1 (fetch)	json	735 B	145 B	28 ms
200	POST	10.2.171.1	flatui_auth	HTTP/1.1	fi-session.js:1 (xhr)	json	769 B	107 B	42 ms
200	POST	10.2.171.1	flatui_proxy?nocache=1694733614442	HTTP/1.1	fi-session.js:1 (xhr)	json	788 B	114 B	54 ms
200	GET	10.2.171.1	SysDashboard?action=read&type=info	HTTP/1.1	fi-session.js:1 (xhr)	json	872 B	390 B	62 ms
200	POST	10.2.171.1	forward?nocache=1694733614472	HTTP/1.1	fi-session.js:1 (xhr)	json	1.22 kB	743 B	205 ms
200	GET	10.2.171.1	SysDashboard?action=read&type=resources	HTTP/1.1	fi-session.js:1 (xhr)	json	695 B	91 B	80 ms
200	GET	10.2.171.1	SysDashboard?action=read&type=widgetConfigs&widget_type=9	HTTP/1.1	fi-session.js:1 (xhr)	json	698 B	103 B	228 ms
200	GET	10.2.171.1	SysDashboard?action=read&type=resources	HTTP/1.1	fi-session.js:1 (xhr)	json	685 B	91 B	245 ms
200	GET	10.2.171.1	SysDashboard?action=read&type=widgetConfigs&widget_type=9	HTTP/1.1	fi-session.js:1 (xhr)	json	698 B	103 B	296 ms
200	GET	10.2.171.1	SysDashboard?action=read&type=resources	HTTP/1.1	fi-session.js:1 (xhr)	json	686 B	91 B	389 ms
200	GET	10.2.171.1	SysDashboard?action=read&type=faceplate	HTTP/1.1	fi-session.js:1 (xhr)	json	837 B	1.67 kB	450 ms
200	GET	10.2.171.1	SysDashboard?action=read&type=alerts&console	HTTP/1.1	fi-session.js:1 (xhr)	json	949 B	778 B	459 ms
200	GET	10.2.171.1	SysDashboard?action=read&type=widgetConfigs&widget_type=14	HTTP/1.1	fi-session.js:1 (xhr)	json	684 B	80 B	517 ms
200	POST	10.2.171.1	flatui_proxy?nocache=1694733614484	HTTP/1.1	fi-session.js:1 (xhr)	json	764 B	114 B	557 ms
200	GET	10.2.171.1	SysDashboard?action=read&type=license	HTTP/1.1	fi-session.js:1 (xhr)	json	1.08 kB	1.97 kB	890 ms

- After apache-mode is set to "event", HTTP/2 is used and can be viewed in the browser's Web Developer Tools:

System Information

Host Name	FMG-VM64
Serial Number	
Platform Type	FMG-VM64
HA Status	Standalone
System Time	Thu Sep 14 16:13:00 2023
PDT	
Firmware Version	v7.4.1-build2308 230831 (GA)
System Configuration	Last Backup: [icon]

License Information

VM License	Valid UUG
FortiCloud	Registered
FortiGuard	
VM Meter Service	Not Licensed
Server Location	Servers located in US only
Management	
Devices/VDOMs	0 / 1,000,000,000 (0.0%)

System Resources

verage CPU Usage	5%
Memory Usage	44%
Disk Usage	5%

Network

Status	Method	Domain	File	Protocol	Initiator	Type	Transferred	Size	Duration
200	POST	10.2.171.1	flatui_auth	HTTP/2	fi-session.js:1 (fetch)	json	715 B	145 B	26 ms
200	POST	10.2.171.1	flatui_auth	HTTP/2	fi-session.js:1 (fetch)	json	715 B	145 B	33 ms
200	POST	10.2.171.1	flatui_auth	HTTP/2	fi-session.js:1 (fetch)	json	715 B	145 B	32 ms
200	POST	10.2.171.1	flatui_auth	HTTP/2	fi-session.js:2 (xhr)	json	736 B	97 B	30 ms
200	POST	10.2.171.1	flatui_auth	HTTP/2	fi-session.js:1 (fetch)	json	715 B	145 B	27 ms
200	POST	10.2.171.1	flatui_auth	HTTP/2	fi-session.js:1 (fetch)	json	715 B	145 B	30 ms
200	POST	10.2.171.1	flatui_auth	HTTP/2	fi-session.js:1 (fetch)	json	715 B	145 B	36 ms
200	POST	10.2.171.1	flatui_auth	HTTP/2	fi-session.js:1 (fetch)	json	715 B	145 B	31 ms
200	POST	10.2.171.1	flatui_auth	HTTP/2	fi-session.js:1 (fetch)	json	715 B	145 B	32 ms
200	POST	10.2.171.1	flatui_auth	HTTP/2	fi-session.js:1 (fetch)	json	715 B	145 B	31 ms
200	POST	10.2.171.1	flatui_auth	HTTP/2	fi-session.js:2 (xhr)	json	736 B	97 B	31 ms
200	POST	10.2.171.1	flatui_auth	HTTP/2	fi-session.js:1 (fetch)	json	715 B	145 B	34 ms
200	POST	10.2.171.1	flatui_auth	HTTP/2	fi-session.js:1 (fetch)	json	715 B	145 B	32 ms
200	POST	10.2.171.1	flatui_auth	HTTP/2	fi-session.js:2 (xhr)	json	736 B	97 B	46 ms
200	POST	10.2.171.1	flatui_auth	HTTP/2	fi-session.js:1 (fetch)	json	715 B	145 B	27 ms
200	POST	10.2.171.1	flatui_auth	HTTP/2	fi-session.js:1 (fetch)	json	715 B	145 B	32 ms

To configure the apache-mode in the FortiAnalyzer CLI:

Enter the following command in the FortiAnalyzer CLI:

```
config system global
  set apache-mode {event| prefork}
  event Apache event mode.
  prefork Apache prefork mode.
  set apache-mode event
end
```

Backup strategy and configuration setup added to the FortiAnalyzer setup wizard - 7.4.2

Backup strategy and configuration setup has been added to the FortiAnalyzer setup wizard.

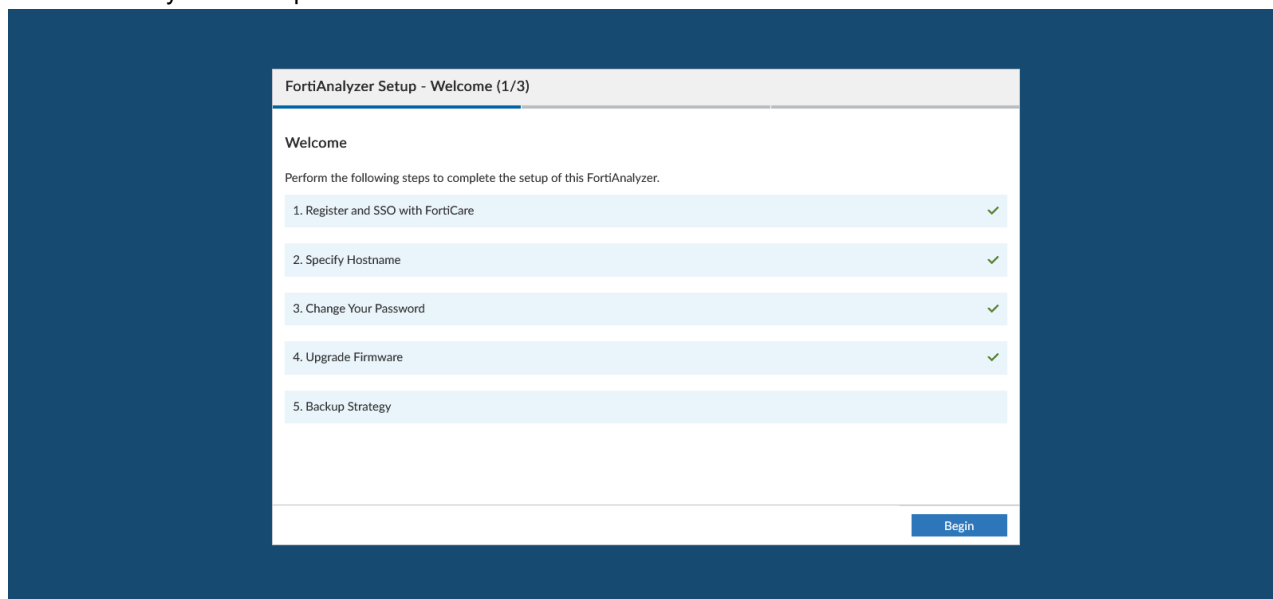


This information is also available in the FortiAnalyzer 7.4 Administration Guide:

- [FortiAnalyzer Setup Wizard](#)

To set a backup strategy using the onboarding wizard:

1. When logging into FortiAnalyzer, the new *Backup Strategy* option will be displayed as part of the setup wizard if it has not already been completed.



2. After the *Register and SSO with FortiCare*, *Specify Hostname*, *Change Your Password*, and *Upgrade Firmware* steps are completed, you can proceed to configure your *Backup Strategy*.
 - If you do not wish to set a backup strategy at this time, you can click Later to postpone the task. Next time you log in to FortiAnalyzer, you will see that the *Backup Strategy* task is not completed and you will be prompted to complete the configuration.
3. To configure the backup strategy, enter the following configuration:

- a. *Backup Configuration File to*: Settings that determine where the backup file will be saved.
- b. *Backup Frequency*: Settings that determines how often the backup will be performed.
- c. *Encryption*: Set a password for encryption of the backup configuration.
- d. Click *Next* to complete the configuration.

The screenshot shows the 'FortiAnalyzer Setup - Backup Strategy (2/3)' window. It has a tab for 'Automatic System Backup'. Under 'Backup Configuration File to', there are fields for 'Server IP/FQDN' (with a placeholder 'server name / IP:port'), 'Directory', 'Protocol' (set to 'SFTP'), 'User Name', and 'Password' (masked with dots). Under 'Backup Frequency', there are checkboxes for days of the week (Monday through Sunday) and a 'Time' field. A note states 'Time is presented in timezone: Pacific Time (US & Canada) (PDT)'. Under 'Encryption', there are fields for 'Password' and 'Confirm Password', both with toggle icons. At the bottom right are 'Next >' and 'Later' buttons.

The next time you log in to FortiAnalyzer, the Backup Strategy task will be displayed with a check mark indicating completion.

The screenshot shows the 'FortiAnalyzer Setup - Welcome (1/3)' window. It has a 'Welcome' section with the instruction 'Perform the following steps to complete the setup of this FortiAnalyzer.' Below this is a list of five steps, each with a green checkmark indicating completion:

1. Register and SSO with FortiCare
2. Specify Hostname
3. Change Your Password
4. Upgrade Firmware
5. Backup Strategy

 At the bottom right is a 'Begin' button.

You can go to *Dashboard* to view the *Next Backup* date and time in the *System Information* widget.

Cloud Services

This section lists the new features added to FortiAnalyzer for cloud services:

- FortiAnalyzer supports FortiCare Elite Service on page 152

FortiAnalyzer supports FortiCare Elite Service

FortiAnalyzer and FortiAnalyzer Cloud now supports FortiCare Elite Service.

To use this service, cloud management must be enabled on the FortiAnalyzer and the FortiGate Cloud portal.

The screenshot displays the FortiAnalyzer GUI. The top section shows 'License Information' with details for VM License (Valid 10K-UG, Registered, Cloud Management), FortiCloud (Indicators of Compromise, Not Licensed), FortiGuard (FortiAnalyzer Outbreak D., No License), Security Operations (Security Automation, Not Licensed; Industrial Security Service, Not Licensed; Security Rating Update, Not Licensed), and Logging (Devices/VDOMs: 3 / 10,000 (0.0%)).

The bottom section shows the 'FortiGate Cloud' portal with a table of assets:

Assets	SN	Name	Firmware	Status	SD-WAN	Management Connectivity	Subsc
<input type="checkbox"/>	FAZ-VM1TM22090591	FAZVM64	7.4.0	CPU 8% Memory 22%			
<input type="checkbox"/>	FGVM04TM22090093						
<input type="checkbox"/>	FGVM04TM22090094						
<input type="checkbox"/>	FGVM04TM22090150	fgt06-fnt02	7.0.5				

Log forwarding configuration to the Elite Service can be viewed in the FortiAnalyzer GUI. This log forwarding configuration cannot be edited or deleted.

The screenshot displays the FortiAnalyzer GUI 'Log Forwarding' configuration page. It shows a table with log forwarding settings:

Server Name	Forward Logs to	Device Filters	Forward Logs Frequency	Output Profile
faz2	FortiAnalyzer(10.2.88.121)	[root]FGVMSLTM22002986, [root]FGVMSLTM22003023, [root]	✓Real-time	N/A
elite	Elite Service(172.16.94.93)	*	✓Real-time	N/A

The log forward configuration to Elite Service is also visible in the FortiAnalyzer CLI. For example:

```
config system log-forward
edit 40000
set mode forwarding
set fwd-max-delay realtime
```

```
set server-name "elite"
set server-addr "172.16.94.93"
set fwd-server-type elite-service
set fwd-reliable enable
set fwd-compression enable
set fwd-archives disable
set proxy-service disable
  config device-filter
    edit 1
      set action include-like
      set device "*"
    next
  end
set log-filter-status enable
  config log-filter
    edit 1
      set field level
      set oper >=
      set value "critical"
    next
    edit 2
      set field logid
      set value "0110052000"
    next
  end
set signature 1449934396
next
```

You can disable the Elite Service in the FortiAnalyzer CLI, if needed. It can also be re-enabled using the same command. In the FortiAnalyzer CLI, enter:

```
config system central-management
  set elite-service {enable | disable}
end
```

If `elite-service` is disabled, the log forwarding to Elite Service will automatically be removed. FGC will push the configuration back if the `elite-service` is later set to `enable`.

```
FAZVM64 # config system central-management
(central-management)# get
type : cloud-management
elite-service : enable
```

Logs that meet the filter within the log forward configuration will be forwarded to Elite log server. See a sample log in the FortiAnalyzer GUI below:

#	A	Date/Time	Level	Device ID	Log Description	Security Rating Score
1		10:30:30	notice	FGVMSLTm22003023	Security Rating summary	274.5
2		10:30:30	notice	FGVMSLTm22003023	Security Rating summary	85.0
3		10:30:30	notice	FGVMSLTm22003023	Security Rating summary	240.0
4		10:20:30	notice	FGVMSLTm22002986	Security Rating summary	274.5
5		10:20:30	notice	FGVMSLTm22002986	Security Rating summary	85.0
6		10:20:30	notice	FGVMSLTm22002986	Security Rating summary	240.0
7		06:20:28	notice	FGVMSLTm22003023	Security Rating summary	274.5
8		06:20:28	notice	FGVMSLTm22003023	Security Rating summary	85.0
9		06:20:28	notice	FGVMSLTm22003023	Security Rating summary	240.0
10		06:10:28	notice	FGVMSLTm22002986	Security Rating summary	274.5
11		06:10:28	notice	FGVMSLTm22002986	Security Rating summary	85.0
12		06:10:28	notice	FGVMSLTm22002986	Security Rating summary	240.0
13		02:10:31	notice	FGVMSLTm22003023	Security Rating summary	274.5
14		02:10:26	notice	FGVMSLTm22003023	Security Rating summary	85.0
15		02:10:26	notice	FGVMSLTm22003023	Security Rating summary	240.0
16		02:00:32	notice	FGVMSLTm22002986	Security Rating summary	274.5

ADOM: root | admin | Last 7 Days | Apr 12 To Apr 19 | Add Filter | Total logs for analytics: 8 days 20 hours. | 50 /Page 1 2 3 4 5 6 | ^0.385 Second

Sample logs from Elite log server:

```
2023-04-14 13:50:42,136 DEBUG Processing /dev/shm/fams/log_upload/proc/FAZ-
VMTM22090591.1264692.nrt.e.1681505055.562204.34406
2023-04-14 13:50:42,137 DEBUG Create new raw log file: elog_20230414_135042 for (*****,
elog)
2023-04-14 13:50:47,083 DEBUG ---sending elite kafka msg---,
elitelogserver.remoteaccessmgr.faz.fsbp, {"action":"downloadFsbpFile","data":
{"fazSn":"FAZ-
VMTM22090591","fgtSn":"FGVMSLTm22002986","auditId":"****","accountId":"****","auditTime"
:1681490426}}
```

Note that this log forward configuration does NOT impact other types of log forwarding.

Edit Log Forwarding

Name: faz2

Status: ☒

Remote Server Type: FortiAnalyzer

Server FQDN/IP: 10.2.88.121

Compression: ☐

Reliable Connection: ☐

Sending Frequency: ☒ Real-time ☐ Every 1 Minute ☐ Every 5 Minutes

Log Forwarding Filters

Device Filters:

- Include [root]FGVMSLTm22002986
- Include [root]FGVMSLTm22003023
- Include [root]FGVMSLTm22003333
- Select Device

Log Filters: ☒

Log messages that match: ☒ All ☐ Any of the Following Conditions

Log Field	Match Criteria	Value
<input checked="" type="checkbox"/> Log Type	Equal to	Traffic
<input checked="" type="checkbox"/> Level	Not equal to	Alert

OK Cancel

The Elite log server can call API to get the Fortinet Security Best Practices (FSBP) reports.

API:

```
{
  "apiver": 3,
  "url": "/fazsys/audittrpt/fgt-orig-rpt",
  "data": {
    "devid": "FGVMSLTm22002986",
    "auditID": "1681505424727"
  }
}
```



```
}  
}
```

The reports are updated in FortiAnalyzer:

```
bash# cd /drive0/private/restapi/audit_rpt/  
bash# ls  
FGVMSLTM22002986          FGVMSLTM22002986_PostureReport      FGVMSLTM22003023_OptimizationReport  
FGVMSLTM22002986_CoverageReport  FGVMSLTM22003023          FGVMSLTM22003023_PostureReport  
FGVMSLTM22002986_OptimizationReport  FGVMSLTM22003023_CoverageReport  
bash#
```



This log forward config does not impact other types of log forward in FortiAnalyzer.

Operational Technology

This section lists the new features added to FortiAnalyzer for Operational Technology:

- [Operational Technology \(OT\) Security Service on page 156](#)
- [OT Purdue Model in a consolidated Asset & Identity Center Dashboard on page 158](#)
- [OT Security Risk Report on page 161](#)

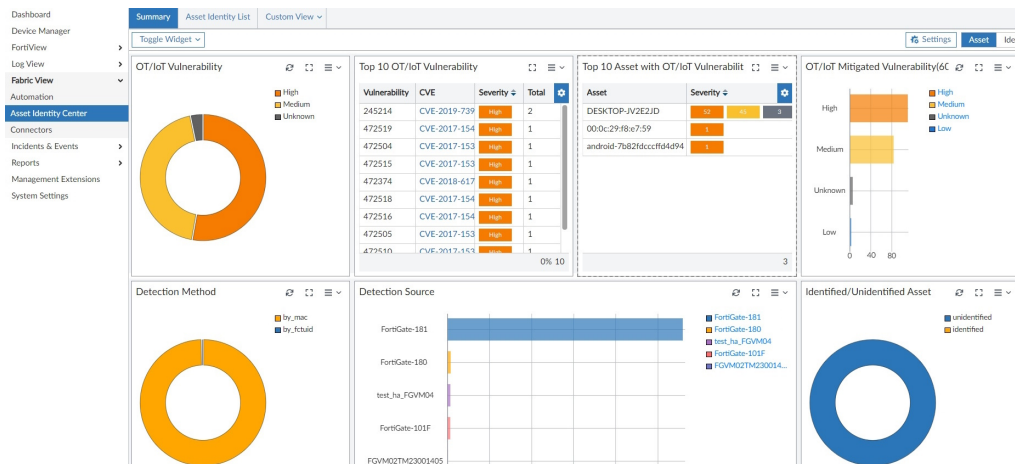
Operational Technology (OT) Security Service

Upon purchasing the OT Security Service Entitlement, the *Asset Identity Center* in FortiAnalyzer will include valuable information regarding the detected OT/IoT vulnerabilities. This includes information such as:

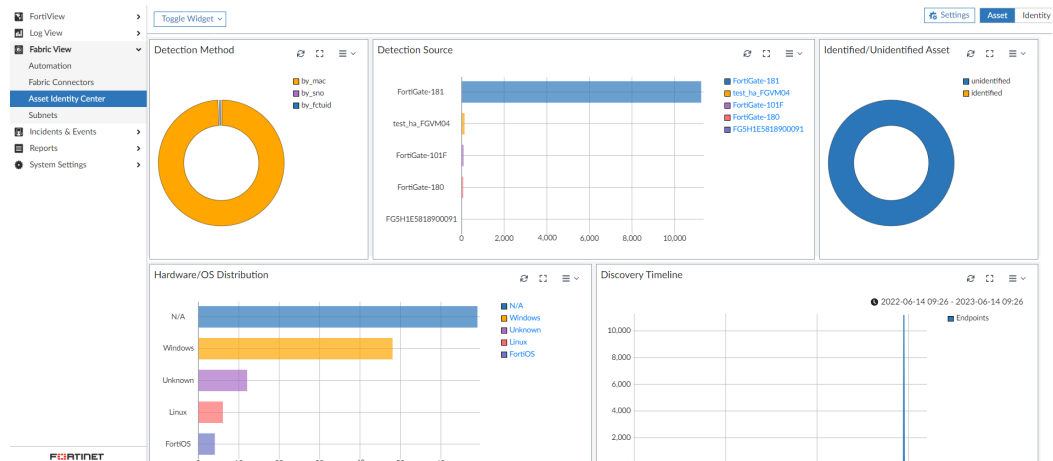
- A breakdown of OT/IoT vulnerabilities with corresponding severity
- Top 10 OT/IoT vulnerabilities by number of occurrences
- Top 10 assets with OT/IoT vulnerabilities
- Details of the vulnerabilities per endpoints

With this service, you can access the following features:

- Go to *Asset Identity Center > Summary* for OT/IoT Vulnerability widgets.



If you do not have a license for the service, the widgets will not be visible.



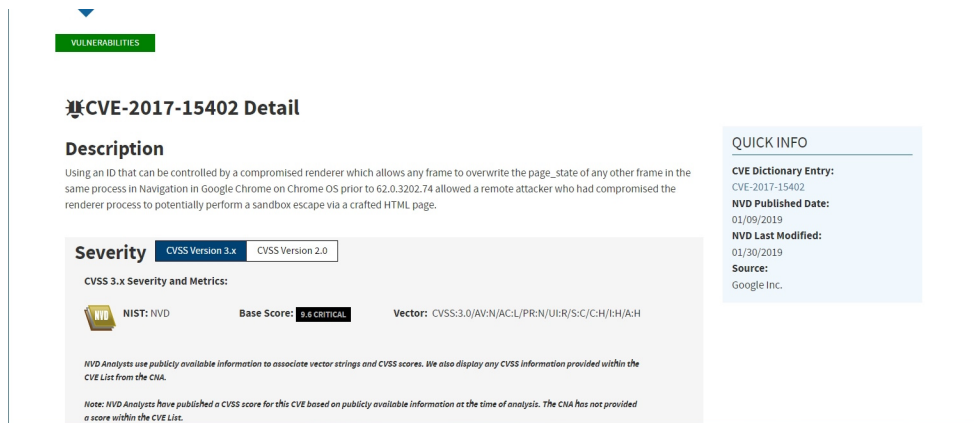
- Go to **Asset Identity Center > Asset Identity List > Asset List** to view **OT/IoT Vulnerabilities** in the table.

Dashboard	Summary	Asset Identity List	Custom View
Device Manager	Asset List	OT View	
FortiView	Last 1 Week 2023-04-14 10:24:54 - 2023-04-21 10:24:54		
Log View	Custom View Reload More		
Fabric View	Add Filter Asset Identity		
Automation	Endpoint Name	Tags	User
Asset Identity Center	Win-10-1		MAC Address
Connectors	192.168.174.206		OT/IoT Vulnerabilities
Incidents & Events	android-7b82f4cc		IP Address
Reports	FCTEM50000103259		FortiC
Management Extensions	FCTEM50000105121		
System Settings	FCTEM52644034189		
	FCTEM54086893656		
	FCTEM58821006601		
	FortiGate-101F		
	Stone-FortiGate-80E-POE		
	FGT61F-1		
	FGT91E-1		
	FGVM02TM22010033		
	FortiGate-180		
	FortiGate-181		
	FGVM02TM23001405		
	FGVM02TM23001405		

- Click the numbers in the **OT/IoT Vulnerabilities** column to display the vulnerabilities in more detail, including **Type**, **Severity**, **Reference**, and **Description**.

Dashboard	Summary	Asset Identity List	Custom View
Device Manager	Asset List	OT View	
FortiView	Last 1 Week 2023-04-14 11:23:17 - 2023-04-21 11:23:17		
Log View	Custom View Reload More		
Fabric View	Add Filter Asset Identity		
Automation	Endpoint Name	Tags	
Asset Identity Center	Win-10-1		
Connectors	192.168.174.206		
Incidents & Events	android-7b82f4ccf4d94		
Reports	FCTEM50000103259		
Management Extensions	FCTEM50000105121		
System Settings	FCTEM52644034189		
	FCTEM54086893656		
	FCTEM58821006601		
	FortiGate-101F		
	Stone-FortiGate-80E-POE		
	FGT61F-1		
	FGT91E-1		
	FGVM02TM22010033		
	FortiGate-180		
	FortiGate-181		
	FGVM02TM23001405		
	FGVM02TM23001405		

- Click the CVE reference in the **Reference** column to view the details.



VULNERABILITIES

CVE-2017-15402 Detail

Description

Using an ID that can be controlled by a compromised renderer which allows any frame to overwrite the page_state of any other frame in the same process in Navigation in Google Chrome on Chrome OS prior to 62.0.3202.74 allowed a remote attacker who had compromised the renderer process to potentially perform a sandbox escape via a crafted HTML page.

Severity CVSS Version 3.x CVSS Version 2.0

CVSS 3.x Severity and Metrics:

NIST: NVD Base Score: 9.8 CRITICAL Vector: CVSS:3.0/AV:N/AC:L/PR:N/UI:R/S:C/C:H/LH:A/H

QUICK INFO

CVE Dictionary Entry: CVE-2017-15402

NVD Published Date: 01/09/2019

NVD Last Modified: 01/30/2019

Source: Google Inc.

NVD Analysts use publicly available information to associate vector strings and CVSS scores. We also display any CVSS information provided within the CVE List from the CNA.

Note: NVD Analysts have published a CVSS score for this CVE based on publicly available information at the time of analysis. The CNA has not provided a score within the CVE List.

- In the FortiAnalyzer CLI, you can enter the following command to check the status of the endpoint data link between FortiAnalyzer and FortiGate:

```
diagnose test application oftpd 20 fgt-stat
```

OT Purdue Model in a consolidated Asset & Identity Center Dashboard



This information is also available in the FortiAnalyzer 7.4 Administration Guide:

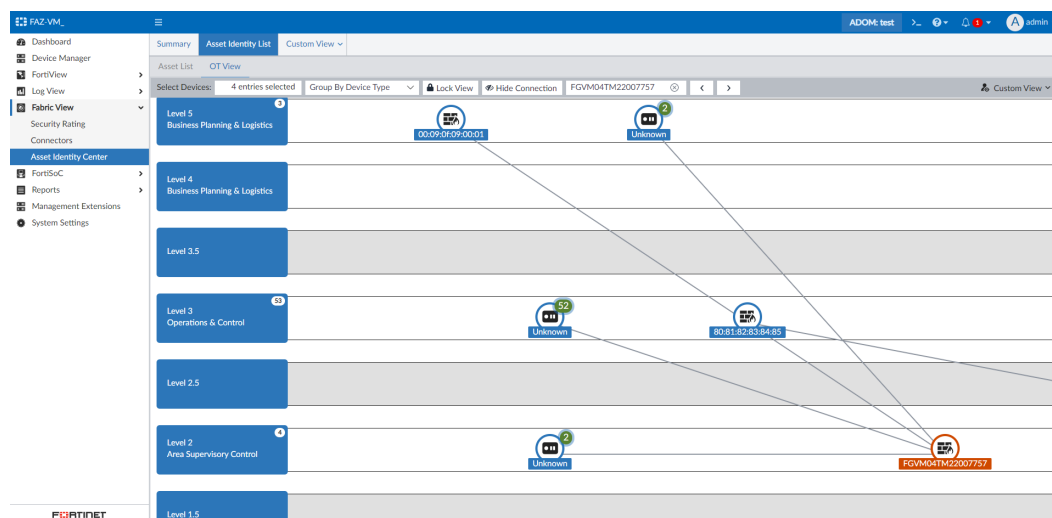
- [OT View](#)

An OT Purdue model has been added to a new and consolidated *Asset & Identity Center*.

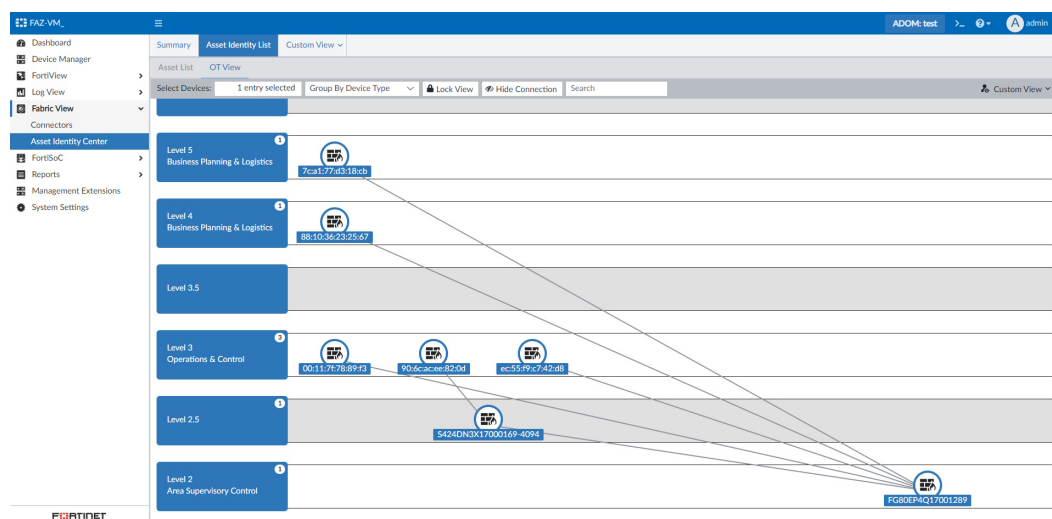
This spec introduces a consolidated dashboard for both Assets and Identities: *Fabric View > Asset Identity Center*. In previous versions, Asset and Identity each had a separate dashboard.

In the new *OT View*, each asset is represented in its corresponding Purdue Layer. All associated endpoints are visible with clear, linear relationships.

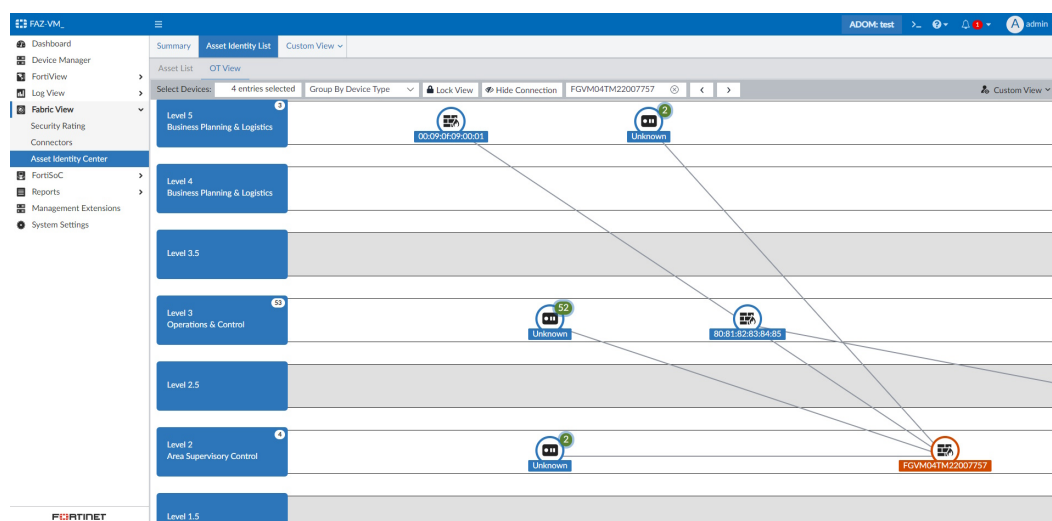
To view the new *OT View*, go to *Fabric View > Asset Identity Center > OT View*.



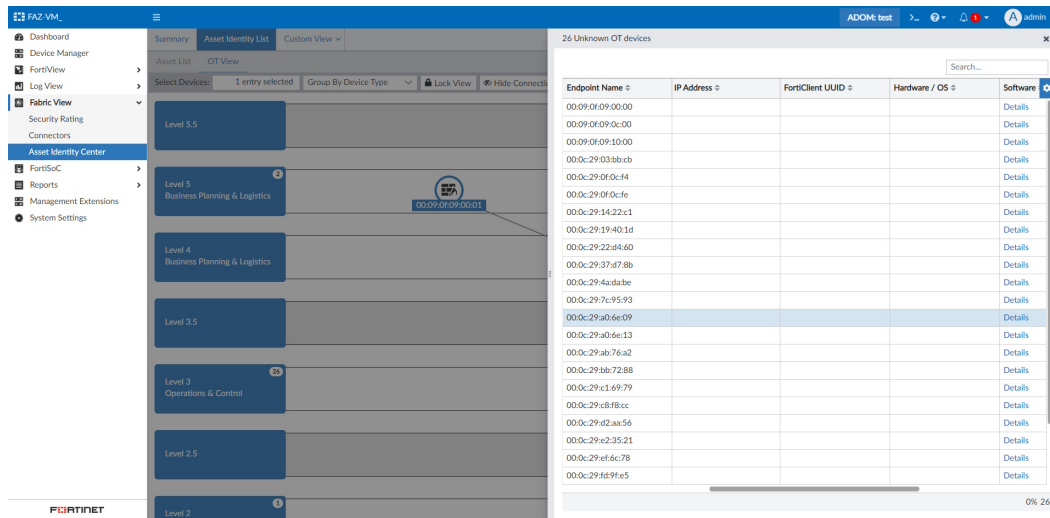
Use the *Select Devices* fields to display all endpoints associated with specified devices.



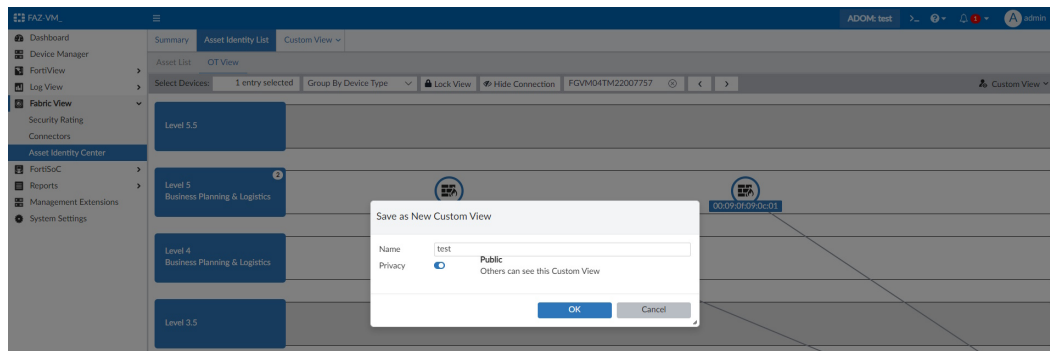
Use the *Search* field to find a specific endpoint, as needed.



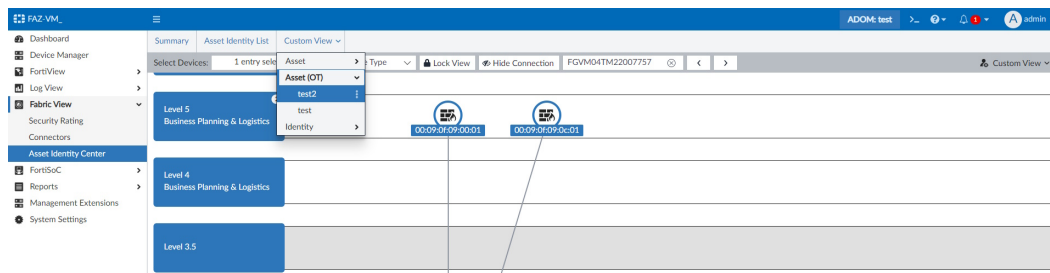
Click an endpoint to review the details of the endpoint or the endpoint's group.



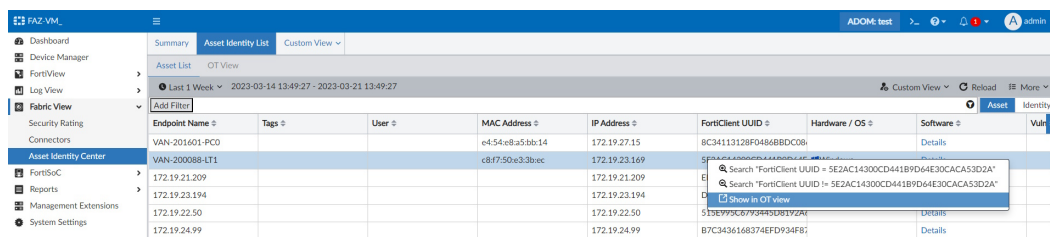
Within the OT View pane, click *Custom View* > *Save As Custom View* to create a custom view.



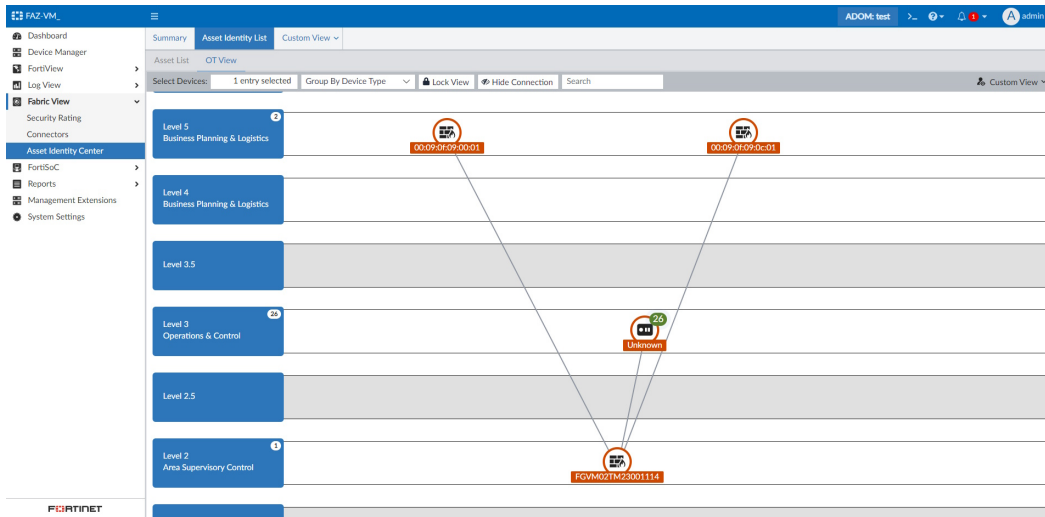
The saved custom views are available in *Fabric View* > *Asset Identity Center* > *Custom View*.



When using *Fabric View* > *Asset Identity Center* > *Asset List*, you can right-click an endpoint and click *Show in OT view* to display it in the OT view instead of the asset list.



After clicking **Show in OT view**, the **Fabric View > Asset Identity Center > OT View** opens to display the selected endpoint.

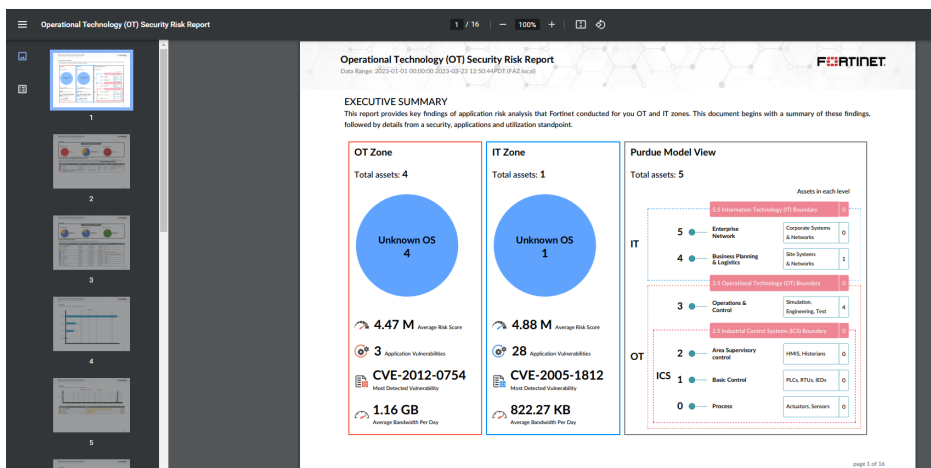


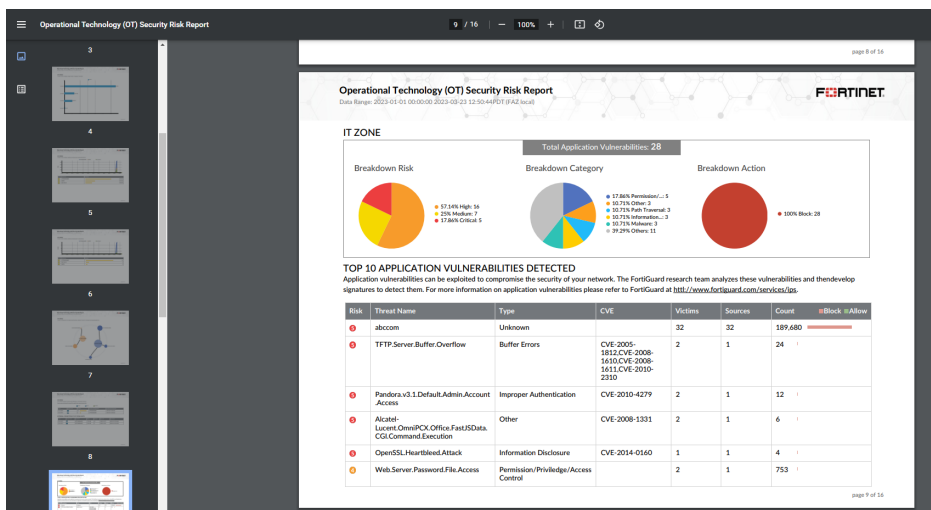
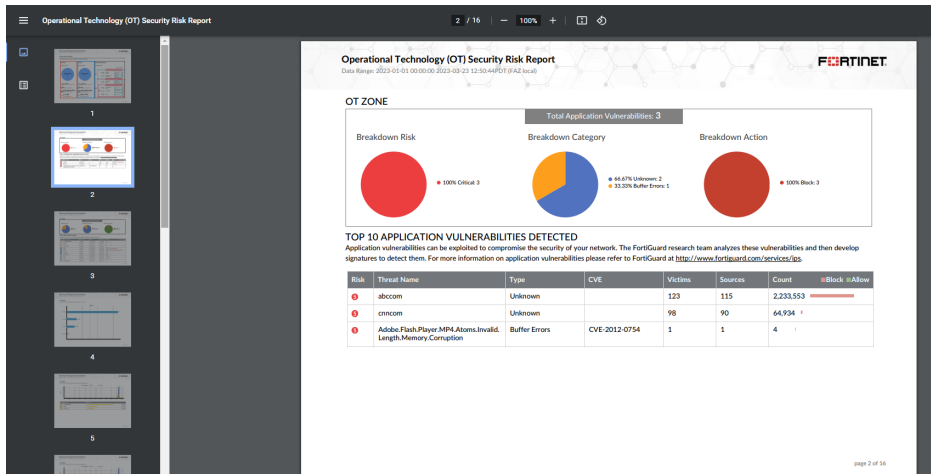
OT Security Risk Report

An *Operational Technology (OT) Security Risk Report* has been added to provide:

- Application risk analysis for OT and IT zones
- Blind-spot and hidden risks detection
- Purdue Model asset mapping

For example, see a sample of the report in PDF format below:





To create the report from the template:

- Go to **Reports > Report Definitions > Templates**.
From the **Preview** column, you can click **PDF** or **HTML** to preview the report in that format.
- Select the checkbox for **Template - Operational Technology (OT) Security Risk Report**.

FAZVM64		ADOM: root	
<div><div>Dashboard</div><div>Device Manager</div><div>FortiView</div><div>Log View</div><div>Fabric View</div><div>FortiSoC</div><div>Reports</div><div>Generated Reports</div><div>Report Definitions</div><div>Advanced Settings</div><div>Management Extensions</div><div>System Settings</div></div>	<div>All Reports</div> <div>Templates</div> <div>Chart Library</div> <div>Macro Library</div> <div>Datasets</div> <div><div>Create New</div><div>View</div><div>Delete</div><div>More</div></div>	<div><div>Title</div><div>Description</div><div>Category</div></div> <div><div><div><div>Template - FortiNDR Breach Prevention Report</div><div>en</div><div>FortiNDR Breach Prevention Report.</div><div>FortiNDR</div></div><div><div>Template - FortiNDR Network Anomalies Report</div><div>en</div><div>Present a brief report of Network Anomalies detected by Fortinet Network Detection and Response product FortiNDR.</div><div>FortiNDR</div></div><div><div>Template - Fortinet Email Risk Assessment</div><div>en</div><div>Email remains a critical tool for business, as well as a successful delivery vehicle for cybercriminals. To assess your organization's email risk, Fortinet provides a comprehensive Email Risk Assessment report.</div><div>Fabric</div></div><div><div>Template - FortiPortal User Summary Report</div><div>en</div><div>FortiPortal User Summary Report.</div><div>Fabric</div></div><div><div>Template - FortiProxy Default Report</div><div>en</div><div>Global bandwidth savings, cache rate, traffic and request timeline. Top 20 websites by bandwidth, bandwidth savings, cache rate, traffic and request timeline.</div><div>FortiProxy</div></div><div><div>Template - FortiProxy Security Analysis</div><div>en</div><div>User Security Analysis</div><div>FortiProxy</div></div><div><div>Template - FortiProxy Web Usage Report</div><div>en</div><div>Web Usage Summary</div><div>FortiProxy</div></div><div><div>Template - FortiSandbox CTAP Report</div><div>en</div><div>FortiSandbox CTAP Report</div><div>FortiSandbox</div></div><div><div>Template - FortiSandbox Default Report</div><div>en</div><div>Threat rating distribution, job severity timeline, malware severity of targeted hosts, top 20 targeted hosts, top 20 malware sources, sources of attacks, event categories, login events by user, top destinations, attack destinations and event types.</div><div>FortiSandbox</div></div><div><div>Template - FortiWeb Default Report</div><div>en</div><div>Top sources, sources of attacks, event categories, login events by user, top destinations, attack destinations and event types.</div><div>FortiWeb</div></div><div><div>Template - FortiWeb Web Application Analysis Report</div><div>en</div><div>It includes web application trends, behavior and consolidated views in a multi-FortiWeb environment.</div><div>FortiWeb</div></div><div><div>Template - FSAP Security Rating Report</div><div>en</div><div>Present a brief summary report about FSAP security rating report.</div><div>Security</div></div><div><div>Template - GTP Report</div><div>en</div><div>GTP Report.</div><div>System</div></div><div><div>Template - High Bandwidth Application Usage Report</div><div>en</div><div>High Bandwidth Application Usage Report.</div><div>Application</div></div><div><div>Template - Hourly Website Hits</div><div>en</div><div>Hourly Website Hits</div><div>Web</div></div><div><div>Template - IPS Report</div><div>en</div><div>Intrusions detected by type, severity, victims, sources, blocked, monitored, attacks over http-tcps.</div><div>Security</div></div><div><div><div>Template - Operational Technology (OT) Security Risk Report</div><div>en</div><div>Present a brief summary report about OT and IT zone application risk analysis.</div><div>Security</div></div><div><div>Template - PCI Security Rating Report</div><div>en</div><div>Present a brief summary report about PCI security rating report.</div><div>Security</div></div></div></div></div>	

3. From the *More* dropdown, click *Create Report* to create a report using the template.
You can also click *Clone* to clone the template and make adjustments.

To run the Operational Technology (OT) Security Risk Report:

1. Go to *Reports > Report Definitions > All Reports*, and double-click the row for the *Operational Technology (OT) Security Risk Report*.
The *Edit: Operational Technology (OT) Security Risk Report* pane opens.
2. Click *Run Report*.
Once the report is available, click the format to view the report in.

Other

This section lists the other new features added to FortiAnalyzer:

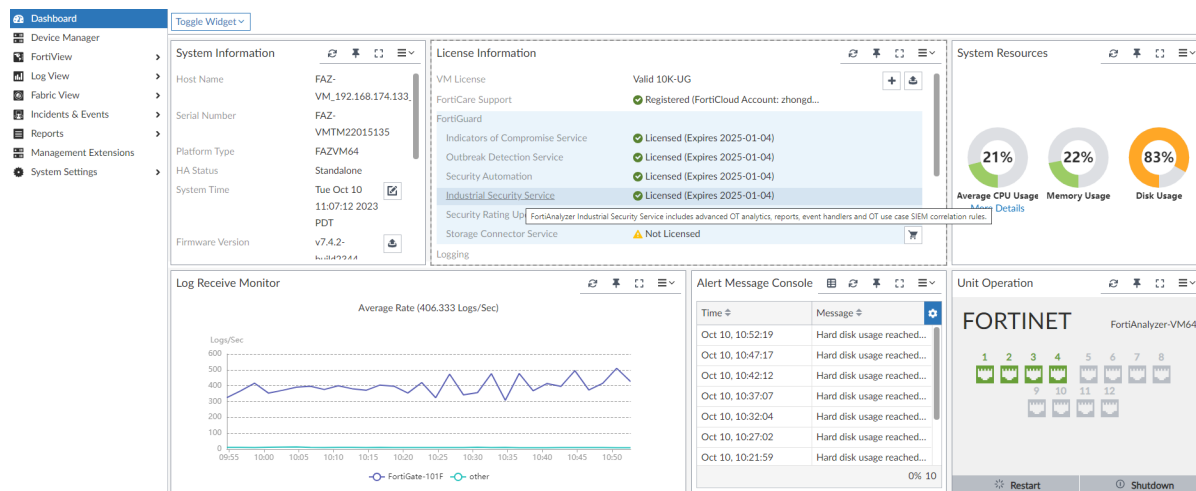
- [Licensing adjustment on page 164](#)

Licensing adjustment

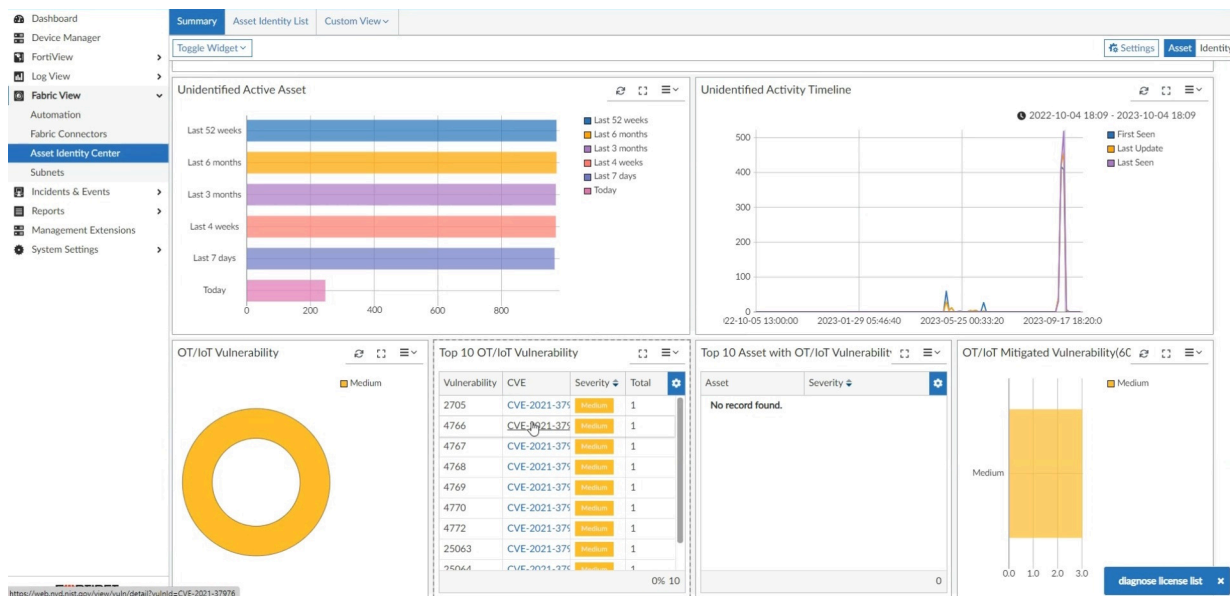
Version 7.4.0 introduces multiple adjustments to the FortiAnalyzer licensing model to accommodate extra licenses:

- *Security Operations > Security Automation* has been renamed to *FortiGuard > Security Automation*
- A new subscription has been introduced for OT Security Service, enabling access to OT-related features like the OT Dashboard and report. This can be found on the FortiAnalyzer GUI under the name *Industrial Security Service*.
- A new subscription has been introduced for Security Rating and Compliance, allowing access to additional compliance reports such as PCI, FSBP, and CIS. This can be found on the FortiAnalyzer GUI under the name *Security Rating Update*.

These licenses are visible in the *License Information* widget.



If licensed for the *Industrial Security Service*, the *OT/IoT Vulnerability* widgets will be visible in *Fabric View > Asset Identity Center > Summary*.



The OT/IoT Vulnerabilities will also be available in *Fabric View > Asset Identity Center > Asset Identity List*.

The screenshot displays the FortiAnalyzer interface, specifically the Asset Identity List. The left sidebar lists navigation options: Dashboard, Device Manager, FortiView, Log View, Fabric View (selected), Automation, Fabric Connectors, Asset Identity Center (selected), Subnets, Incidents & Events, Reports, Management Extensions, and System Settings. The main content area displays a table of assets with columns: Endpoint Name, IP Address, FortiClient UUID, Hardware / OS, Software, OT/IoT Vulnerabilities, Vulnerabilities, and Last Update. The table shows a list of assets, including VAN-928346-PC0, 192.168.2.134, 192.168.2.132, 192.168.2.131, 192.168.2.5, 192.168.2.9, 192.168.2.133, 192.168.70.40, 1014-MacBookPro.local, SYSLOG-C0A8AE01, Win-10-1, 00:0c:29:bb:72:a6, 00:0c:29:bb:72:9c, 00:0c:29:bb:72:92, 00:0c:29:e2:35:2b, 00:0c:29:e2:35:3f, 00:0c:29:e2:35:35, 00:0c:29:ef:6c:8c, and 00:0c:29:ef:6c:96. A tooltip "Click to view vulnerabilities" is visible over the OT/IoT Vulnerabilities column.

If unlicensed for the *Industrial Security Service*, these features will not be available.

Dashboard

Device Manager

FortiView

Log View

Fabric View

Automation

Fabric Connectors

Asset Identity Center

Subnets

Incidents & Events

Reports

System Settings

Summary

Asset Identity List

Custom View

Asset List

OT View

Last 1 Week

2023-10-03 11:42:44 - 2023-10-10 11:42:44

Custom View

Reload

More

Asset

Identity

Endpoint Name	ress	IP Address	FortiClient UUID	Hardware / OS	Software	OT/IoT Vulnerabilities	Vulnerabilities	Last Update
FG3K6ETB19900053					Details			
FGVM02TM20007456					Details			
FG3K6ETB19900075					Details			
FEVM040000220213					Details			
FGT91E4Q16000534	3:fb:22	0.0.0.0			Details			
FGT37D4615801346					Details			
DESKTOP-91GMOTO	id:9fe5	192.168.174.24		Windows	Details			2023-04-24 16:04
192.168.174.206	8:e7:59	192.168.174.206		Windows	Details			2023-04-24 16:04
Domain_donald	7c:95:93	192.168.174.20		Windows	Details			2023-04-24 16:04
192.168.174.51	75:dc:81	192.168.174.51		Windows	Details			2023-04-24 16:04
192.168.174.140	14:22:c1	192.168.174.140		Windows	Details			2023-04-24 16:04
192.168.174.44	3a:1a:b2	192.168.174.44		Windows	Details			2023-04-24 16:04
5248DNTF19001858	39:8f:7a	192.168.174.2		FortiSwitch OS	Details			2023-04-24 16:04
DESKTOP-JV2E2JD	22:d4:60	192.168.174.25		Windows	Details			2023-04-24 16:04
192.168.174.134	3f:0c:f4	192.168.174.134		Linux Debian	Details			2023-04-24 16:04
192.168.174.210	19:40:1d	192.168.174.210		Windows	Details			2023-04-24 16:04
192.168.174.100	75:45:1f	192.168.174.100		Windows	Details			2023-04-24 16:04
192.168.174.132	37:d7:8b	192.168.174.132		Windows	Details			2023-04-24 16:04
donald-ubuntu	4a:da:be	192.168.20.230		Windows	Details			2023-06-08 23:11

24% 122

For more information about OT features in FortiAnalyzer, see [Operational Technology](#) on page 156.

Index

The following index provides a list of all new features added to FortiAnalyzer 7.4. The index allows you to quickly identify the version where the feature first became available in FortiAnalyzer.

Select a version number to navigate in the index to the new features available for that release:

- [7.4.0 on page 167](#)
- [7.4.1 on page 168](#)
- [7.4.2 on page 169](#)

7.4.0

Fabric View

- | | |
|------------|--|
| Connectors | • Webhook Connector to Support MS Teams on page 13 |
|------------|--|

Security Operations

- | | |
|-------------------------------|--|
| Incident and event management | • New predefined correlation event handlers on page 20 |
| Asset and identity | • New charts in the Asset Identity Center on page 44 |
| Other enhancements | • FortiSoC GUI reorganization on page 46 |

Log and Report

- | | |
|----------------|--|
| Logging | <ul style="list-style-type: none">• FortiAnalyzer supports FortiWeb Cloud attack logs on page 69• Support parsing and addition of third-party application logs to the SIEM DB on page 70• Per-ADOM log rate on page 76 |
| Log forwarding | • Fluentd support for public cloud integration on page 89 |
| Reports | <ul style="list-style-type: none">• Report guidance on page 93• PCI Security Rating Report on page 95• Cyber Threats Assessment Report update on page 96• Threat Report update on page 97• FSBP Security Rating Report on page 99• CIS Controls Security Rating report on page 100• Shadow IT Report on page 101 |

- | | |
|--------------------|--|
| Other enhancements | <ul style="list-style-type: none">• Time zone settings per ADOMs/Reports on page 115• New API to restore logs on page 118 |
|--------------------|--|

System

- | | |
|--------------------|--|
| High availability | <ul style="list-style-type: none">• Geo-redundant High Availability (HA) on page 121 |
| Other enhancements | <ul style="list-style-type: none">• FortiAnalyzer GUI enhancements on page 130• Fabric of FAZ topology chart on page 134• Fabric of FAZ: member authorization with supervisor on page 136• Fabric of FAZ global FortiView support on page 141• Fabric of FAZ: Central report support and creating Fabric groups on page 143• Block out contract device from upgrading to next or major or minor release on page 146 |

Cloud Services

- | | |
|----------------|--|
| Cloud services | <ul style="list-style-type: none">• FortiAnalyzer supports FortiCare Elite Service on page 152 |
|----------------|--|

Operational Technology

- | | |
|------------------------|--|
| Operational Technology | <ul style="list-style-type: none">• Operational Technology (OT) Security Service on page 156• OT Purdue Model in a consolidated Asset & Identity Center Dashboard on page 158• OT Security Risk Report on page 161 |
|------------------------|--|

Other

- | | |
|--------------------|--|
| Other enhancements | <ul style="list-style-type: none">• Licensing adjustment on page 164 |
|--------------------|--|

7.4.1

Security Fabric

- | | |
|--------------------|---|
| Other enhancements | <ul style="list-style-type: none">• Reference individual fabric devices 7.4.1 on page 9 |
|--------------------|---|

Security Operations

SOAR SIEM	<ul style="list-style-type: none"> • Playbook event trigger correlation rules 7.4.1 on page 19
Dashboards	<ul style="list-style-type: none"> • SD-WAN Cloud Assisted Monitoring service widgets 7.4.1 on page 31 • Data leak prevention monitor in FortiView 7.4.1 on page 35 • FortiProxy central visibility 7.4.1 on page 38
Other enhancements	<ul style="list-style-type: none"> • Notifications for new Outbreak Alerts 7.4.1 on page 49 • MITRE ATT&CK matrices for Enterprise and ICS 7.4.1 on page 51

Log and Report

Logging	<ul style="list-style-type: none"> • Support EMS multitenancy via FortiAnalyzer ADOMs 7.4.1 on page 78 • Logging support for FortiCASB 7.4.1 on page 80 • Logging support for FortiPAM 7.4.1 on page 82 • Logging support for FortiToken Cloud 7.4.1 on page 83 • Support parsing and addition of third-party application logs to the SIEM DB in JSON format 7.4.1 on page 84 • FortiAnalyzer supports packet header information for FortiWeb traffic log 7.4.1 on page 86
Reports	<ul style="list-style-type: none"> • FortiADC Report 7.4.1 on page 103 • ZTNA Report 7.4.1 on page 104 • FortiEDR Report 7.4.1 on page 105 • ISO 27001:2022 Compliance Security Rating Report 7.4.1 on page 107 • Exporting a report with settings 7.4.1 on page 108 • DLP report 7.4.1 on page 110 • PCI DSS security rating report update 7.4.1 on page 112

System

Other enhancements	<ul style="list-style-type: none"> • FortiManager and FortiAnalyzer support HTTP/2 for improved security, multiplexing, and reduced network latency 7.4.1 on page 148
--------------------	--

7.4.2

Security Operations

Incident and event management	<ul style="list-style-type: none"> • Update to the Event Handler rule configuration 7.4.2 on page 26
-------------------------------	---

Dashboards	<ul style="list-style-type: none">• Compromised hosts improvements 7.4.2 on page 40• Replay attacks in the Threat Map 7.4.2 on page 42
Other enhancements	<ul style="list-style-type: none">• Deliver reports, event handlers, and SIEM rules as FortiGuard packages 7.4.2 on page 62• MITRE information included in outbreak detection 7.4.2 on page 66

Log and Report

Logging	<ul style="list-style-type: none">• Support additional log fields for long live session logs 7.4.2 on page 88
Reports	<ul style="list-style-type: none">• HIPAA report 7.4.2 on page 114

System

Administrators	<ul style="list-style-type: none">• A new restricted admin profile can be used to only change the administrators passwords 7.4.2 on page 124• Per-ADOM admin profile 7.4.2 on page 127
Other enhancements	<ul style="list-style-type: none">• Backup strategy and configuration setup added to the FortiAnalyzer setup wizard 7.4.2 on page 150



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