

# FortiAnalyzer - Release Notes

Version 6.0.1

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FortiAnalyzer 6.0.1 Release Notes

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# FortiAnalyzer 6.0.1 Release

This document provides information about FortiAnalyzer version 6.0.1 build 0150.

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The recommended minimum screen resolution for the FortiAnalyzer GUI is 1280 x 800. Please adjust the screen resolution accordingly. Otherwise, the GUI may not display properly.

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This section includes the following topics:

- [Supported models on page 5](#)
- [What's new on page 6](#)

## Supported models

FortiAnalyzer version 6.0.1 supports the following models:

<b>FortiAnalyzer</b>	FAZ-200D, FAZ-200F, FAZ-300D, FAZ-300F, FAZ-400E, FAZ-800F, FAZ-1000D, FAZ-1000E, FAZ-2000E, FAZ-3000D, FAZ-3000E, FAZ-3000F, FAZ-3500E, FAZ-3500F, FAZ-3700F and FAZ-3900E.
<b>FortiAnalyzer VM</b>	FAZ-VM64, FAZ-VM64-AWS, FAZ-VM64-AWS-OnDemand, FAZ-VM64-Azure, FAZ-VM64-HV, FAZ-VM64-KVM, and FAZ-VM64-XEN (Citrix XenServer and Open Source Xen).

## What's new

FortiAnalyzer version 6.0.1 includes the following new features and enhancements:

### System Settings

#### Anonymization of User Information for GDPR

Added the ability for Administrators to *Anonymize* or *De-anonymize* user information in FortiAnalyzer.

### NOC - SOC

#### New SOC Views

The following SOC views have been added under NOC - SOC:

- The *Security > Top Threat* widget has a new scatter chart view.
- A new *Worldwide Threat Prevalence* widget under Threat Research.
- A new *Virus Incidents* widget under Threat Research.
- The *Security Fabric Rating Report widget* (FSBP Maturity Milestones) has a new rings view.
- A new Sankey topology graph in the *Security > User Data Flow* widget.

### FortiView

#### FortiView Improvements

Added *Historical Timeline* charts to FortiView for improved visual representation.

# Special Notices

This section highlights some of the operational changes that administrators should be aware of in FortiAnalyzer version 6.0.1.

## FortiManager features disabled when FortiAnalyzer HA enabled

If you have FortiManager features enabled on FortiAnalyzer units, and then enable HA for the FortiAnalyzer units, FortiManager features are automatically disabled. FortiManager features are not supported when FortiAnalyzer HA is enabled.

## Updated Widgets for Fortinet Security Fabric

After upgrading FortiAnalyzer from 5.6 to 6.0, the NOC Security Fabric widgets, *Security Fabric Score Summary* and *Historical Security Fabric Scores*, no longer show any data. These two widgets have been replaced by the following widgets: *Security Fabric Rating Report* and *Security Fabric Scores* in FortiAnalyzer 6.0. The two new widgets only support FortiOS 6.0 devices.

## Hyper-V FortiAnalyzer-VM running on an AMD CPU

A Hyper-V FAZ-VM running on a PC with an AMD CPU may experience a kernel panic. Fortinet recommends running VMs on an Intel-based PC.

## SSLv3 on FortiAnalyzer-VM64-AWS

Due to known vulnerabilities in the SSLv3 protocol, FortiAnalyzer-VM64-AWS only enables TLSv1 by default. All other models enable both TLSv1 and SSLv3. If you wish to disable SSLv3 support, please run:

```
config system global
  set ssl-protocol tlsv1
end
```

## Pre-processing logic of ebtime

Logs with the following conditions met are considered usable for the calculation of estimated browsing time:

Traffic logs with `logid` of 13 or 2, when `logid == 13`, `hostname` must not be empty. The `service` field should be either `HTTP, 80/TCP` or `443/TCP`.

If all above conditions are met, then `devid`, `vdom`, and `user` (`srcip` if `user` is empty) are combined as a key to identify a user. For time estimation, the current value of `duration` is calculated against history session start and end time, only un-overlapped part are used as the `etime` of the current log.



# Upgrade Information

You can upgrade FortiAnalyzer 5.6.0 or later directly to 6.0.1. After upgrade, FortiAnalyzer will rebuild the system database automatically.

If you are upgrading from versions earlier than 5.6.0, you must upgrade to FortiAnalyzer 5.6, then to 6.0.0. We recommend that you upgrade to 5.6.4, the latest version of FortiAnalyzer 5.6.



For details about upgrading FortiAnalyzer, see *FortiAnalyzer Upgrade Guide*.

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This section contains the following topics:

- [Downgrading to previous versions on page 9](#)
- [Firmware image checksums on page 9](#)
- [FortiAnalyzer VM firmware on page 9](#)
- [SNMP MIB files on page 11](#)

## Downgrading to previous versions

FortiAnalyzer does not provide a full downgrade path. You can downgrade to a previous firmware release via the GUI or CLI, but doing so results in configuration loss. A system reset is required after the firmware downgrading process has completed. To reset the system, use the following CLI commands via a console port connection:

```
execute reset all-settings
execute format {disk | disk-ext4}
```

## Firmware image checksums

The MD5 checksums for all Fortinet software and firmware releases are available at the Customer Service & Support portal, <https://support.fortinet.com>. To verify the integrity of the download, select the *Checksum* link next to the *HTTPS* download link. A dialog box will be displayed with the image file name and checksum code. Compare this checksum with the checksum of the firmware image.

## FortiAnalyzer VM firmware

Fortinet provides FortiAnalyzer VM firmware images for Amazon AWS, Citrix and Open Source XenServer, Linux KVM, Microsoft Hyper-V Server, and VMware ESX/ESXi virtualization environments.

## Amazon Web Services

- The 64-bit Amazon Machine Image (AMI) is available on the AWS marketplace.

## Citrix XenServer and Open Source XenServer

- `.out`: Download the 64-bit firmware image to upgrade your existing FortiAnalyzer VM installation.
- `.out.OpenXen.zip`: Download the 64-bit package for a new FortiAnalyzer VM installation. This package contains the QCOW2 file for the Open Source Xen Server.
- `.out.CitrixXen.zip`: Download the 64-bit package for a new FortiAnalyzer VM installation. This package contains the Citrix XenServer Disk (VHD), and OVF files.

## Linux KVM

- `.out`: Download the 64-bit firmware image to upgrade your existing FortiAnalyzer VM installation.
- `.out.kvm.zip`: Download the 64-bit package for a new FortiAnalyzer VM installation. This package contains QCOW2 that can be used by qemu.

## Microsoft Azure

The files for Microsoft Azure have AZURE in the filenames, for example `FAZ_VM64_AZURE-v<number>-build<number>-FORTINET.out.hyperv.zip`.

- `.out`: Download the firmware image to upgrade your existing FortiAnalyzer VM installation.
- `.hyperv.zip`: Download the package for a new FortiAnalyzer VM installation. This package contains a Virtual Hard Disk (VHD) file for Microsoft Azure.

## Microsoft Hyper-V Server

The files for Microsoft Hyper-V Server have HV in the filenames, for example, `FAZ_VM64_HV-v<number>-build<number>-FORTINET.out.hyperv.zip`.

- `.out`: Download the firmware image to upgrade your existing FortiAnalyzer VM installation.
- `.hyperv.zip`: Download the package for a new FortiAnalyzer VM installation. This package contains a Virtual Hard Disk (VHD) file for Microsoft Hyper-V Server.



Microsoft Hyper-V 2016 is supported.

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## VMware ESX/ESXi

- `.out`: Download either the 64-bit firmware image to upgrade your existing VM installation.
- `.ovf.zip`: Download either the 64-bit package for a new VM installation. This package contains an Open Virtualization Format (OVF) file for VMware and two Virtual Machine Disk Format (VMDK) files used by the OVF file during deployment.



For more information see the product data sheet available on the Fortinet web site, <https://www.fortinet.com/products/management/fortianalyzer.html>. VM installation guides are available in the [Fortinet Document Library](#).

## SNMP MIB files

You can download the *FORTINET-FORTIMANAGER-FORTIANALYZER.mib* MIB file in the firmware image file folder. The Fortinet Core MIB file is located in the main FortiAnalyzer v5.00 file folder.

# Product Integration and Support

This section lists FortiAnalyzer 6.0.1 support of other Fortinet products. It also identifies what FortiAnalyzer features are supported for log devices, what FortiGate management features are supported when FortiManager features are enabled on FortiAnalyzer, and what languages FortiAnalyzer GUI and reports support. It also lists which Fortinet models can send logs to FortiAnalyzer.

The section contains the following topics:

- [FortiAnalyzer version 6.0.1 support on page 12](#)
- [Feature support on page 14](#)
- [FortiGate management on page 15](#)
- [Language support on page 15](#)
- [Supported models on page 16](#)

## FortiAnalyzer version 6.0.1 support

The following table lists FortiAnalyzer version 6.0.1 product integration and support information:

<b>Web Browsers</b>	<ul style="list-style-type: none"><li>• Microsoft Internet Explorer version 11 or Edge 40 Due to limitation on Microsoft Internet Explorer or Edge, it may not completely render a page with a large set of policies or objects.</li><li>• Mozilla Firefox version 60</li><li>• Google Chrome version 66</li></ul> Other web browsers may function correctly, but are not supported by Fortinet.
<b>FortiOS/FortiOS Carrier</b>	<ul style="list-style-type: none"><li>• 6.0.0 to 6.0.2</li><li>• 5.6.0 to 5.6.4</li><li>• 5.4.0 to 5.4.8</li><li>• 5.2.0 to 5.2.13</li></ul>
<b>FortiAnalyzer</b>	<ul style="list-style-type: none"><li>• 6.0.0</li><li>• 5.6.0 to 5.6.3</li><li>• 5.4.0 to 5.4.3</li><li>• 5.2.0 to 5.2.9</li><li>• 5.0.0 to 5.0.13</li></ul>
<b>FortiCache</b>	<ul style="list-style-type: none"><li>• 4.2.7</li><li>• 4.2.6</li><li>• 4.1.3</li><li>• 4.0.4</li></ul>
<b>FortiClient</b>	<ul style="list-style-type: none"><li>• 5.6.0 and later</li><li>• 5.4.0 and later</li><li>• 5.2.0 and later</li></ul>

	<ul style="list-style-type: none"><li>• 5.0.4 and later</li></ul>
<b>FortiMail</b>	<ul style="list-style-type: none"><li>• 5.4.5</li><li>• 5.3.12</li><li>• 5.2.10</li><li>• 5.1.7</li><li>• 5.0.10</li></ul>
<b>FortiManager</b>	<ul style="list-style-type: none"><li>• 6.0.0</li><li>• 5.6.0 to 5.6.3</li><li>• 5.4.0 to 5.4.3</li><li>• 5.2.0 and later</li><li>• 5.0.0 and later</li></ul>
<b>FortiSandbox</b>	<ul style="list-style-type: none"><li>• 2.5.0 to 2.5.2</li><li>• 2.4.0 and 2.4.1</li><li>• 2.3.2 and 2.3.3</li><li>• 2.2.2</li><li>• 2.1.3</li><li>• 2.0.3</li><li>• 1.4.0 and later</li><li>• 1.3.0</li><li>• 1.2.0 and later</li></ul>
<b>FortiSwitch ATCA</b>	<ul style="list-style-type: none"><li>• 5.0.0 and later</li><li>• 4.3.0 and later</li><li>• 4.2.0 and later</li></ul>
<b>FortiWeb</b>	<ul style="list-style-type: none"><li>• 5.9.1</li><li>• 5.8.6</li><li>• 5.8.3</li><li>• 5.8.1</li><li>• 5.8.0</li><li>• 5.7.2</li><li>• 5.6.1</li><li>• 5.5.6</li><li>• 5.4.1</li><li>• 5.3.9</li><li>• 5.2.4</li><li>• 5.1.4</li><li>• 5.0.6</li></ul>
<b>FortiDDoS</b>	<ul style="list-style-type: none"><li>• 4.5.0</li><li>• 4.4.1</li><li>• 4.2.3</li><li>• 4.1.12</li></ul>
<b>FortiAuthenticator</b>	<ul style="list-style-type: none"><li>• 5.2.2</li><li>• 5.1.0</li><li>• 5.0.0</li></ul>

	<ul style="list-style-type: none"> <li>• 4.3.0</li> <li>• 4.2.0</li> <li>• 4.1.0</li> <li>• 4.0.0</li> </ul>
<b>Virtualization</b>	<ul style="list-style-type: none"> <li>• Amazon Web Service AMI, Amazon EC2, Amazon EBS</li> <li>• Citrix XenServer 7.2</li> <li>• Linux KVM Redhat 7.1</li> <li>• Microsoft Azure</li> <li>• Microsoft Hyper-V Server 2012 and 2016</li> <li>• OpenSource XenServer 4.2.5</li> <li>• VMware ESXi versions 5.0, 5.5, 6.0, 6.5 and 6.7</li> </ul>



Always review the Release Notes of the supported platform firmware version before upgrading your device.

## Feature support

The following table lists FortiAnalyzer feature support for log devices.

Platform	Log View	FortiView	Event Management	Reports
FortiGate	✓	✓	✓	✓
FortiCarrier	✓	✓	✓	✓
FortiAnalyzer	✓		✓	
FortiCache	✓		✓	✓
FortiClient registered to FortiGate	✓	✓		✓
FortiClient registered to FortiClient EMS	✓	✓		✓
FortiDDoS	✓	✓	✓	✓
FortiMail	✓		✓	✓
FortiManager	✓		✓	
FortiSandbox	✓		✓	✓
FortiWeb	✓		✓	✓
Syslog	✓		✓	

## FortiGate management

You can enable FortiManager features on some FortiAnalyzer models. FortiAnalyzer models with FortiManager features enabled can manage a small number of FortiGate devices, and all but a few FortiManager features are enabled on FortiAnalyzer.



FortiAnalyzer HA is not supported when FortiManager features are enabled.

The following table lists the supported modules for FortiAnalyzer with FortiManager Features enabled:

FortiManager Management Modules	FortiAnalyzer with FortiManager Features Enabled
Device Manager, except firmware and license management	✓
Policy & Objects	✓
AP Manager	✓
FortiClient Manager	✓
VPN Manager	✓
FortiGuard	
FortiManager HA	
FortiMeter	
FGT-VM License Activation	
Chassis Management	✓

## Language support

The following table lists FortiAnalyzer language support information.

Language	GUI	Reports
English	✓	✓
Chinese (Simplified)	✓	✓
Chinese (Traditional)	✓	✓
French		✓
Hebrew		✓
Hungarian		✓

Language	GUI	Reports
Japanese	✓	✓
Korean	✓	✓
Portuguese		✓
Russian		✓
Spanish		✓

To change the FortiAnalyzer language setting, go to *System Settings > Admin > Admin Settings*, in *Administrative Settings > Language* select the desired language from the drop-down list. The default value is *Auto Detect*.

Russian, Hebrew, and Hungarian are not included in the default report languages. You can create your own language translation files for these languages and import the language translation files into FortiAnalyzer by using one of the following commands:

```
execute sql-report import-lang <language name> <ftp> <server IP address> <user name>
  <password> <file name>
execute sql-report import-lang <language name> <sftp> <server IP address> <user name>
  <password> <file name>
execute sql-report import-lang <language name> <scp> <server IP address> <user name>
  <password> <file name>
execute sql-report import-lang <language name> <tftp> <server IP address> <file name>
```

For more information about commands, see the *FortiAnalyzer CLI Reference*.

## Supported models

This section identifies which FortiGate, FortiCarrier, FortiDDoS, FortiAnalyzer, FortiMail, FortiSandbox, FortiSwitch, FortiWeb, and FortiCache models and firmware versions can send logs to a FortiAnalyzer appliance running version 6.0.1. Please ensure that the log devices are supported before completing the upgrade.



Software license activated LENC devices are supported, if their platforms are in the supported models list. For example, support of FG-3200D indicates support of FG-3200D-LENC.

This section contains the following topics:

- [FortiGate models on page 17](#)
- [FortiCarrier models on page 19](#)
- [FortiDDoS models on page 20](#)
- [FortiAnalyzer models on page 20](#)
- [FortiMail models on page 21](#)
- [FortiSandbox models on page 21](#)
- [FortiSwitch ATCA models on page 22](#)
- [FortiWeb models on page 22](#)
- [FortiCache models on page 22](#)



## FortiGate models

Model	Firmware Version
<p><b>FortiGate:</b> FG-30D, FG-30D-POE, FG-30E, FG-30E-3G4G-INTL, FG-30E-3G4G-NAM, FG50E, FG-51E, FG-52E, FG-60D, FG-60D-POE, FG-60E, FG-60E-POE, FG-61E, FG-70D, FG-70D-POE, FG-80C, FG-80D, FG-80E, FG-80E-POE, FG-81E, FG-81E-POE, FG-90D, FG-90D-POE, FG-90E, FG-91E, FG-92D, FG-94D-POE, FG-98D-POE, FG-100D, FG-100E, FG-100EF, FG-101E, FG-140D, FG-140D-POE, FG-140E, FG-140E-POE, FG200D, FG-200D-POE, FG-200E, FG-201E, FG-240D, FG-240-POE, FG-280D-POE, FG300D, FG-300E, FG-301E, FG-400D, FG-500D, FG-500E, FG-501E, FG-600D, FG-800D, FG-900D, FG-1000C, FG-1000D, FG-1200D, FG-1500D, FG-1500DT, FG-2000E, FG-2500E, FG-3000D, FG-3100D, FG-3200D, FG-3240C, FG-3600C, FG3700D, FG-3800D, FG-3810D, FG-3815D, FG-3960E, FG-3980E</p> <p><b>FortiGate 5000 Series:</b> FG-5001D, FG-5001E, FG-5001E1</p> <p><b>FortiGate DC:</b> FG-80C-DC, FG-600C-DC, FG-800C-DC, FG-800D-DC, FG-1000C-DC, FG1500D-DC, FG-3000D-DC, FG-3100D-DC, FG-3200D-DC, FG-3240C-DC, FG-3600C-DC, FG-3700D-DC, FG-3800D-DC, FG-3810D-DC, FG-3815D-DC</p> <p><b>FortiGate Hardware Low Encryption:</b> FG-80C-LENC, FG-100D-LENC, FG-600C-LENC, FG-1000C-LENC</p> <p><b>Note:</b> All license-based LENC is supported based on the FortiGate support list.</p> <p><b>FortiWiFi:</b> FWF-30D, FWF-30E, FWF-30E-3G4G-INTL, FWF-30E-3G4G-NAM, FWF-50E, FWF-50E-2R, FWF-51E, FWF-60D, FWF-60D-POE, FWF-60E, FWF-61E, FWF-90D, FWF-90D-POE, FWF-92D</p> <p><b>FortiGate VM:</b> FG-VM64, FG-VM64-AWS, FG-VM64-AWSONDEMAND, FG-VM64-AZUREONDEMAND, FG-VM64-Azure, FG-VM64-GCP, FG-VM64-HV, FG-VM64-KVM, FG-VM64-OPC, FG-VM64-XEN, FG-VMX-Service-Manager, FOS-VM64, FOS-VM64-KVM, FOS-VM64-Xen</p> <p><b>FortiGate Rugged:</b> FGR-30D, FGR-35D, FGR-60D, FGR-90D</p>	6.0
<p><b>FortiGate:</b> FG-30D, FG-30D-POE, FG-30E, FG-30E-3G4G-INTL, FG-30E-3G4G-NAM, FG-50E, FG-51E, FG-52E, FG-60D, FG-60D-POE, FG-60E, FG-60E-POE, FG-60E-DSL, FG-61E, FG-70D, FG-70D-POE, FG-80C, FG-80CM, FG-80D, FG-80E, FG-80E-POE, FG-81E, FG-81E-POE, FG-90D, FG-90D-POE, FG-90E, FG-91E, FG-92D, FG-94D-POE, FG-98D-POE, FG-100D, FG-100E, FG-100EF, FG-101E, FG-140D, FG-140D-POE, FG-140E, FG-140E-POE, FG-200D, FG-200D-POE, FG-200E, FG-201E, FG-240D, FG-240-POE, FG-280D-POE, FG-300D, FG-300E, FG-301E, FG-400D, FG-500D, FG-500E, FG-501E, FG-600C, FG-600D, FG-800C, FG-800D, FG-900D, FG-1000C, FG-1000D, FG-1200D, FG-1500D, FG-1500DT, FG-2000E, FG-2500E, FG-3000D, FG-3100D, FG-3200D, FG-3240C, FG-3600C, FG-3700D, FG-3700DX, FG-3800D, FG-3810D, FG-3815D, FG-3960E, FG-3980E,</p> <p><b>FortiGate 5000 Series:</b> FG-5001C, FG-5001D, FG-5001E, FG-5001E1</p> <p><b>FortiGate DC:</b> FG-80C-DC, FG-600C-DC, FG-800C-DC, FG-800D-DC, FG-1000C-DC, FG-1500D-DC, FG-3000D-DC, FG-3100D-DC, FG-3200D-DC, FG-3240C-DC, FG-3600C-DC, FG-3700D-DC, FG-3800D-DC, FG-3810D-DC, FG-3815D-DC</p> <p><b>FortiGate Hardware Low Encryption:</b> FG-80C-LENC, FG-100D-LENC, FG-600C-LENC, FG-1000C-LENC</p> <p><b>Note:</b> All license-based LENC is supported based on the FortiGate support list.</p>	5.6

Model	Firmware Version
<p><b>FortiWiFi:</b> FWF-30D, FWF-30D-POE, FWF-30E, FWF-30E-3G4G-INTL, FWF-30E-3G4G-NAM, FWF-50E, FWF-50E-2R, FWF-51E, FWF-60D, FWF-60D-POE, FWF-60E, FWF-61E, FWF-80CM, FWF-81CM, FWF-90D, FWF-90D-POE, FWF-92D</p> <p><b>FortiGate VM:</b> FG-VM64, FG-VM64-AWS, FG-VM64-AWSONDEMAND, FG-VM64-Azure, FG-VM64-AZUREONDEMAND, FG-VM64-GCP, FG-VM64-HV, FG-VM64-KVM, FG-VM64-OPC, FG-VM64-XEN, FG-VMX-Service-Manager, FOSVM64, FOSVM64-KVM, FOS-VM64-Xen</p> <p><b>FortiGate Rugged:</b> FGR-30D, FGR-35D, FGR-60D, FGR-90D</p>	
<p><b>FortiGate:</b> FG-30D, FG-30D-POE, FG-30E, FG-30E-3G4G-INTL, FG-30E-3G4G-NAM, FG-50E, FG-51E, FG-52E, FG-60D, FG-60D-POE, FG-60E, FG-60E-DSL, FG-60E-POE, FG-61E, FG-70D, FG-70D-POE, FG-80C, FG-80CM, FG-80D, FG-80E, FG-80E-POE, FG-81E, FG-81E-POE, FG-90D, FG-90D-POE, FG-90E, FG-91E, FG-92D, FG-94D-POE, FG-98D-POE, FG-100D, FG-100E, FG-100EF, FG-101E, FG-140D, FG-140D-POE, FG-140E, FG-140-POE, FG-200D, FG-200D-POE, FG-240D, FG-240D-POE, FG-280D-POE, FG-200E, FG-201E, FGT-300D, FGT-300E, FGT-301E, FG-400D, FG-500D, FG-500E, FG-501E, FG-600C, FG-600D, FG-800C, FG-800D, FG-900D, FG-1000C, FG-1000D, FG-1200D, FG-1500D, FG-1500DT, FG-3000D, FG-3100D, FG-3200D, FG-3240C, FG-3600C, FG-3700D, FG-3700DX, FG 3800D, FG-3810D, FG-3815D, FG-3960E, FG3980E, FG-2000E, FG-2500E</p> <p><b>FortiGate 5000 Series:</b> FG-5001C, FG-5001D, FG-5001E, FG-5001E1</p> <p><b>FortiGate 7000 Series:</b> FG-7030E-Q, FG-7030E-S, FG-7040E-1, FG-7040E-2, FG-7040E-3, FG-7040E-4, FG-7040E-5, FG-7040E-6, FG-7040E-8, FG-7040E-8-DC, FG-7060E-1, FG-7060E-2, FG-7060E-3, FG-7060E-4, FG-7060E-5, FG-7060E-6, FG-7060E-8</p> <p><b>FortiGate DC:</b> FG-80C-DC, FG-600C-DC, FG-800C-DC, FG-800D-DC, FG-1000C-DC, FG-1500D-DC, FG-3000D-DC, FG-3100D-DC, FG-3200D-DC, FG-3240C-DC, FG-3600C-DC, FG-3700D-DC, FG-3800D-DC, FG-3810D-DC, FG-3815DC</p> <p><b>FortiGate Hardware Low Encryption:</b> FG-80C-LENC, FG-100D-LENC, FG-600C-LENC, FG-1000C-LENC</p> <p><b>Note:</b> All license-based LENC is supported based on the FortiGate support list.</p> <p><b>FortiWiFi:</b> FWF-30D, FWF-30D-POE, FWF-30E, FWF-30E-3G4G-INTL, FWF-30E-3G4G-NAM, FWF-50E, FWF-50E-2R, FWF-51E, FWF-60D, FWF-60D-POE, FWF-60E-DSL, FWF-60E, FWF-61E, FWF-80CM, FWF-81CM, FWF-90D, FWF-90D-POE, FWF-92D</p> <p><b>FortiGate VM:</b> FG-VM, FG-VM64, FG-VM64-AWS, FG-VM64-AWSONDEMAND, FG-VM64-HV, FG-VM64-KVM, FG-VM64-OPC, FG-VM64-XEN, FG-VMX-Service-Manager, FOS-VM64, FOS-VM64-KVM</p> <p><b>FortiGate Rugged:</b> FGR-30D, FGR-30D-ADSL-A, FGR-35D, FGR-60D, FGR-90D</p>	5.4

Model	Firmware Version
<p><b>FortiGate:</b> FG-20C, FG-20C-ADSL-A, FG-30D, FG-30D-POE, FG-40C, FG-60C, FG-60C-POE, FG-60C-SFP, FG-60D, FG-60D-3G4G-VZW, FG-60D-POE, FG-70D, FG-70D-POE, FG-80C, FG-80CM, FG-80D, FG-90D, FG-90D-POE, FG-92D, FG-94D-POE, FG-98D-POE, FG-100D, FG-110C, FG-111C, FG-140D, FG-140D-POE, FG-140D-POE-T1, FG-200B, FG-200B-POE, FG-200D, FG-200D-POE, FG-240D, FG-240D-POE, FG-280D-POE, FG-300C, FG-300D, FG-310B, FG-311B, FG-400D, FG-500D, FG-600C, FG-600D, FG-620B, FG-621B, FG-800C, FG-800D, FG-900D, FG-1000C, FG-1000D, FG-1200D, FG-1240B, FG-1500D, FG-1500DT, FG-3000D, FG-3016B, FG-3040B, FG-3100D, FG-3140B, FG-3200D, FG-3240C, FG-3600C, FG-3700D, FG-3700DX, FG-3810A, FG-3810D, FG-3815D, FG-3950B, FG-3951B</p> <p><b>FortiGate 5000 Series:</b> FG-5001A, FG-5001A-SW, FG-5001A-LENC, FG-5001A-DW-LENC, FG-5001A-SW-LENC, FG-5001B, FG-5001C, FG-5001D, FG-5101C</p> <p><b>FortiGate DC:</b> FG-80C-DC, FG-300C-DC, FG-310B-DC, FG-600C-DC, FG-620B-DC, FG-621B-DC, FG-800C-DC, FG-800D-DC, FG-1000C-DC, FG-1240B-DC, FG-1500D-DC, FG-3000D-DC, FG-3040B-DC, FG-3100D-DC, FG-3140B-DC, FG-3200D-DC, FG-3240C-DC, FG-3600C-DC, FG-3700D-DC, FG-3810A-DC, FG-3810D-DC, FG-3815D-DC, FG-3950B-DC, FG-3951B-DC</p> <p><b>FortiGate Low Encryption:</b> FG-20C-LENC, FG-40C-LENC, FG-60C-LENC, FG-80C-LENC, FG-100D-LENC, FG-200B-LENC, FG-300C-LENC, FG-310B-LENC, FG-600C-LENC, FG-620B-LENC, FG-1000C-LENC, FG-1240B-LENC, FG-3040B-LENC, FG-3140B-LENC, FG-3810A-LENC, FG-3950B-LENC</p> <p><b>FortiWiFi:</b> FWF-20C, FWF-20C-ADSL-A, FWF-30D, FWF-30D-POE, FWF-40C, FWF-60C, FWF-60CM, FWF-60CX-ADSL-A, FWF-60D, FWF-60D-3G4G-VZW, FWF-60D-POE, FWF-80CM, FWF-81CM, FWF-90D, FWF-90D-POE, FWF-92D</p> <p><b>FortiGate Rugged:</b> FGR-60D, FGR-100C</p> <p><b>FortiGate VM:</b> FG-VM, FG-VM64, FG-VM64-AWSONDEMAND, FG-VM-Azure, FG-VM64-HV, FG-VM64-KVM, FG-VM64-XEN</p> <p><b>FortiSwitch:</b> FS-5203B, FCT-5902D</p>	5.2

## FortiCarrier models

Model	Firmware Version
<p><b>FortiCarrier:</b> FCR-3000D, FCR-3100D, FCR-3200D, FCR-3700D, FCR-3700DX, FCR-3800D, FCR-3810D, FCR-3815D, FCR-5001C, FCR-5001D, FCR-3000D-DC, FCR-3100D-DC, FCR-3200D-DC, FCR-3240C, FCR-3600C, FCR-3700D-DC, FCR-3810D-DC, FCR-5001C</p> <p><b>FortiCarrier DC:</b> FCR-3000D-DC, FCR-3100D-DC, FCR-3200D-DC, FCR-3240C-DC, FCR-3600C-DC, FCR-3700D-DC, FCR-3810D-DC, FCR-3815D-DC</p> <p><b>FortiCarrier VM:</b> FCR-VM, FCR-VM64, FCR-VM64-AWS, FCR-VM64-AWSONDEMAND, FCR-VM64-HV, FCR-VM64-KVM</p>	5.4
<p><b>FortiCarrier:</b> FCR-3000D, FCR-3100D, FCR-3200D, FCR-3240C, FCR-3600C, FCR-3700D, FCR-3700DX, FCR-3810A, FCR-3810D, FCR-3815D, FCR-3950B, FCR-3951B, FCR-5001A, FCR-5001B, FCR-5001C, FCR-5001D, FCR-5101C, FCR5203B, FCR-5902D</p>	5.2

Model	Firmware Version
<b>FortiCarrier DC:</b> FCR-3000D-DC, FCR-3100D-DC, FCR-3200D-DC, FCR-3700D-DC, FCR-3810D-DC	
<b>FortiCarrier Low Encryption:</b> FCR-5001A-DW-LENC	
<b>FortiCarrier VM:</b> FCR-VM, FCR-VM64, FCR-VM64-HV, FCR-VM64-KVM, FCR-Vm64-XEN, FCR-VM64-AWSONDEMAND	

## FortiDDoS models

Model	Firmware Version
<b>FortiDDoS:</b> FI-200B, FI-400B, FI-600B, FI-800B, FI-900B, FI-1000B, FI-1200B, FI-2000B	4.2, 4.1, 4.0

## FortiAnalyzer models

Model	Firmware Version
<b>FortiAnalyzer:</b> FAZ-200D, FAZ-300D, FAZ-400E, FAZ-1000D, FAZ-1000E, FAZ-2000E, FAZ-3000D, FAZ-3000E, FAZ-3000F, FAZ-3500E, FAZ-3500F, and FAZ-3900E. <b>FortiAnalyzer VM:</b> FAZ-VM64, FAZ-VM64-AWS, FAZ-VM64-Azure, FAZ-VM64-HV, FAZ-VM64-KVM, and FAZ-VM64-XEN (Citrix XenServer and Open Source Xen).	5.6
<b>FortiAnalyzer:</b> FAZ-200D, FAZ-300D, FAZ-400E, FAZ-1000D, FAZ-1000E, FAZ-2000B, FAZ-2000E, FAZ-3000D, FAZ-3000E, FAZ-3000F, FAZ-3500E, FAZ-3500F, FAZ-3900E, and FAZ-4000B. <b>FortiAnalyzer VM:</b> FAZ-VM64, FAZ-VM64-Azure, FAZ-VM64-HV, FAZ-VM64-XEN (Citrix XenServer and Open Source Xen), FAZ-VM64-KVM, and FAZ-VM64-AWS.	5.4
<b>FortiAnalyzer:</b> FAZ-100C, FAZ-200D, FAZ-200E, FAZ-300D, FAZ-400C, FAZ-400E, FAZ-1000C, FAZ-1000D, FAZ-1000E, FAZ-2000B, FAZ-3000D, FAZ-3000E, FAZ-3000F, FAZ-3500E, FAZ-3500F, FAZ-3900E, FAZ-4000B <b>FortiAnalyzer VM:</b> FAZ-VM, FAZ-VM-AWS, FAZ-VM64, FAZ-VM64-Azure, FAZ-VM64-HV, FAZ-VM64-KVM, FAZ-VM64-XEN	5.2
<b>FortiAnalyzer:</b> FAZ-100C, FAZ-200D, FAZ-200E, FAZ-300D, FAZ-400B, FAZ-400C, FAZ-400E, FAZ-1000B, FAZ-1000C, FAZ-1000D, FAZ-1000E, FAZ-2000A, FAZ-2000B, FAZ-3000D, FAZ-3000E, FAZ-3000F, FAZ-3500E, FAZ-3500F, FAZ-4000A, FAZ-4000B <b>FortiAnalyzer VM:</b> FAZ-VM, FAZ-VM64, FAZ-VM64-AWS, FAZ-VM64-Azure, FAZ-VM64-HV, FAZ-VM-KVM, FAZ-VM-XEN	5.0

## FortiMail models

Model	Firmware Version
<b>FortiMail:</b> FE-60D, FE-200D, FE-200E, FE-400C, FE-400E, FE-1000D, FE-2000B, FE-2000E, FE-3000C, FE-3000E, FE-3200E <b>FortiMail Low Encryption:</b> FE-3000C-LENC	5.4.5
<b>FortiMail:</b> FE-60D, FE-200D, FE-200E, FE-400C, FE-400E, FE-1000D, FE-2000B, FE-2000E, FE-3000C, FE-3000D, FE-3000E, FE-3200E, FE-5002B <b>FortiMail Low Encryption:</b> FE-3000C-LENC <b>FortiMail VM:</b> FE-VM64, FE-VM64-HV, FE-VM64-XEN	5.3.12
<b>FortiMail:</b> FE-60D, FE-200D, FE-200E, FE-400C, FE-400E, FE-1000D, FE-2000B, FE-3000C, FE-3000D, FE-5002B <b>FortiMail VM:</b> FE-VM64, FE-VM64-HV, FE-VM64-XEN	5.2.10
<b>FortiMail:</b> FE-100C, FE-200D, FE-200E, FE-400B, FE-400C, FE-400E, FE-1000D, FE-2000B, FE-3000C, FE-3000D, FE-5001A, FE-5002B <b>FortiMail VM:</b> FE-VM64	5.1.7
<b>FortiMail:</b> FE-100C, FE-200D, FE-200E, FE-400B, FE-400C, FE-1000D, FE-2000A, FE-2000B, FE-3000C, FE-3000D, FE-4000A, FE-5001A, FE-5002B <b>FortiMail VM:</b> FE-VM64	5.0.10

## FortiSandbox models

Model	Firmware Version
<b>FortiSandbox:</b> FSA-1000D, FSA-2000E, FSA-3000D, FSA-3000E, FSA-3500D <b>FortiSandbox VM:</b> FSA-KVM, FSA-VM	2.5.2
<b>FortiSandbox:</b> FSA-1000D, FSA-2000E, FSA-3000D, FSA-3000E, FSA-3500D <b>FortiSandbox VM:</b> FSA-VM	2.4.1 2.3.3
<b>FortiSandbox:</b> FSA-1000D, FSA-3000D, FSA-3500D <b>FortiSandbox VM:</b> FSA-VM	2.2.2 2.1.3
<b>FortiSandbox:</b> FSA-1000D, FSA-3000D <b>FortiSandbox VM:</b> FSA-VM	2.0.3 1.4.2
<b>FortiSandbox:</b> FSA-1000D, FSA-3000D	1.4.0 and 1.4.1 1.3.0 1.2.0 and later

## FortiSwitch ATCA models

Model	Firmware Version
<b>FortiController:</b> FTCL-5103B, FTCL-5902D, FTCL-5903C, FTCL-59	5.2.0
<b>FortiSwitch-ATCA:</b> FS-5003A, FS-5003B <b>FortiController:</b> FTCL-5103B, FTCL-5903C, FTCL-5913C	5.0.0
<b>FortiSwitch-ATCA:</b> FS-5003A, FS-5003B	4.3.0
	4.2.0

## FortiWeb models

Model	Firmware Version
<b>FortiWeb:</b> FWB-2000E	5.6.0
<b>FortiWeb:</b> FWB-100D, FWB-400C, FWB-400D, FWB-1000C, FWB-1000D, FWB-3000C, FWB-3000CFSX, FWB-3000D, FWB-3000DFSX, FWB-3000E, FWB-3010E, FWB-4000C, FWB-4000D, FWB-4000E <b>FortiWeb VM:</b> FWB-VM-64, FWB-XENAWS, FWB-XENOPEN, FWB-XENSERVEN, FWB-HYPERV, FWB-KVM, FWB-AZURE	5.5.3
<b>FortiWeb:</b> FWB-100D, FWB-400C, FWB-1000C, FWB-3000C, FWB-3000CFSX, FWB-3000D, FWB-3000DFSX, FWB-3000E, FWB-4000C, FWB-4000D, FWB-4000E <b>FortiWeb VM:</b> FWB-VM64, FWB-XENAWS, FWB-XENOPEN, FWB-XENSERVEN, FWB-HYPERV	5.4.1
<b>FortiWeb:</b> FWB-100D, FWB-400B, FWB-400C, FWB-1000B, FWB-1000C, FWB-1000D, FWB-3000C, FWB-3000CFSX, FWB-3000D, FWB-3000DFSX, FWB-3000E, FWB-4000C, FWB-4000D, FWB-4000E <b>FortiWeb VM:</b> FWB-VM64, FWB-XENAWS, FWB-XENOPEN, FWB-XENSERVEN, and FWB-HYPERV	5.3.8
<b>FortiWeb:</b> FWB-100D, FWB-400B, FWB-400C, FWB-1000B, FWB-1000C, FWB-1000D, FWB-3000C, FWB-3000CFSX, FWB-3000D, FWB-3000DFSX, FWB-3000E, FWB-4000C, FWB-4000D, FWB-4000E <b>FortiWeb VM:</b> FWB-VM64, FWB-HYPERV, FWB-XENAWS, FWB-XENOPEN, FWB-XENSERVEN	5.2.4

## FortiCache models

Model	Firmware Version
<b>FortiCache:</b> FCH-400C, FCH-400E, FCH-1000C, FCH-1000D, FCH-3000C, FCH-3000D, FCH-3900E <b>FortiCache VM:</b> FCH-VM64, FCH-KVM	4.1

Model	Firmware Version
<b>FortiCache:</b> FCH-400C, FCH-400E, FCH-1000C, FCH-1000D, FCH-3000C, FCH-3000D, FCH-3900E	4.0
<b>FortiCache VM:</b> FCH-VM64	

# Resolved Issues

The following issues have been fixed in FortiAnalyzer version 6.0.1. For inquiries about a particular bug, please contact [Customer Service & Support](#).

## Device Manager

Bug ID	Description
447058	Add FortiGate-AWSONDEMAND support when FortiAnalyzer-AWSONDEMAND is running as a <code>t2.small</code> instance.
472502	When forwarding logs to another FortiAnalyzer, FortiGate shows up with serial number instead of the hostname.

## FortiView

Bug ID	Description
412325	WiFi clients are not displayed in FortiView when service profile is working in bridge mode.
462071	Historical FortiView cannot load when Fortinet Security Fabric's name contains unsupported characters.
473051	Both Blacklist and Suspicious pages are blank when drilling down to an entry under <i>Indicators of Compromise</i> .
473907	FortiAnalyzer should not truncate syslog messages sent from the Windows AD server using the syslog agent.

## Log View

Bug ID	Description
394518	Users should be able to download logs that are more than 200 MB in size.
474935	Chromebook stops logging when HTTP access is disabled on the network interface.



## Reports

Bug ID	Description
434272	After upgrade, the generated PDF report size is six times larger.
487669	Users may not be able to create a Report Output Profile with an Email address that has more than 24 characters.

## System Settings

Bug ID	Description
476109	FortiAnalyzer may forward logs with incurred <code>logid</code> .
476701	Log forwarding sends <code>poluuid</code> value without closing double quotes.

## Others

Bug ID	Description
447919	In some occasions, retrieving log from FortiGate may cause the <code>OFTPD</code> daemon to consume high resources.
485300	B1678: rebuild-db hung on 99.1%.
486408	FortiAnalyzer shows incorrect Japanese expression for Disk Utilization.

## Common Vulnerabilities and Exposures

Please visit <https://fortiguard.com/psirt> for more information.

Bug ID	Description
464795	FortiAnalyzer6.0.1 is no longer vulnerable to the following CVE Reference: <ul style="list-style-type: none"> <li>CVE-2017-17541</li> </ul>
473644	FortiAnalyzer 6.0.1 is no longer vulnerable to the following CVE Reference: <ul style="list-style-type: none"> <li>CVE-2018-1354</li> </ul>
474994	FortiAnalyzer 6.0.1 is no longer vulnerable to the following CVE Reference: <ul style="list-style-type: none"> <li>CVE-2018-1355</li> </ul>

## Known Issues

The following issues have been identified in FortiAnalyzer version 6.0.1. For inquiries about a particular bug or to report a bug, please contact [Fortinet Customer Service & Support](#).

### Log View

Bug ID	Description
482906	FortiAnalyzer should not have the sent/received byte field in formatted view under <i>Application Control</i> .
486200	When a user tries to download log, the log view page auto-refreshes in the middle of download causing download to fail.
487115	Device Name and Device ID columns are missing under the <i>Compliance Log</i> .
494110	FortiAnalyzer Collector may stop processing traffic when <code>oftpd</code> crashes.

### Reports

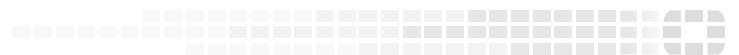
Bug ID	Description
470616	Rendering of tables in PDF report may display overlapping entries.
489971	FortiAnalyzer cannot create a report if CVE ID is selected in the Chart Builder.

# Change Log

Date	Change Description
2018-06-07	Initial release of 6.0.1.
2018-06-13	Updated <i>What's New &gt; NOC - SOC &gt; New SOC Views</i> .
2018-06-26	Added 473644 and 474994 to <i>Resolved Issues</i> .
2018-06-27	Added note to <i>Product Integration &gt; Supported Models &gt; FortiGate Models &gt; 6.0 &gt; FortiGate Hardware Low Encryption</i> .
2018-07-06	Added 464795 to <i>Resolved Issues &gt; Common Vulnerabilities and Exposures</i> .
2018-07-13	Added <i>FortiManager features disabled when FortiAnalyzer HA enabled</i> to <i>Special Notices</i> . Updated <i>Product Integration and Support &gt; FortiGate Management</i> to clarify that FortiAnalyzer HA is not supported when FortiManager features are enabled. Updated <i>Product Integration and Support &gt; Language Support</i> to clarify that you can create your own language translation files for Russian, Hebrew, and Hungarian, and import the language translation files into FortiAnalyzer by using the CLI.
2018-07-27	Added support for FortiOS 6.0.2 to <i>Product Integration and Support</i> .
2018-09-07	Updated <i>Product Integration and Support &gt; FortiAnalyzer 6.0.0 Support &gt; Virtualization</i> .
2019-01-02	Added 485300 to <i>Resolved issues</i> .



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