



FortiAnalyzer - Release Notes

Version 6.0.3

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FortiAnalyzer 6.0.3 Release Notes

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FortiAnalyzer 6.0.3 Release

This document provides information about FortiAnalyzer version 6.0.3 build 255.



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.

This section includes the following topics:

- [Supported models on page 4](#)
- [What's new on page 5](#)

Supported models

FortiAnalyzer version 6.0.3 supports the following models:

| | |
|-------------------------|--|
| FortiAnalyzer | 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. |
| FortiAnalyzer VM | FAZ-VM64, FAZ-VM64-AWS, FAZ-VM64-AWS-OnDemand, FAZ-VM64-Azure, FAZ-VM64-GCP, FAZ-VM64-HV, FAZ-VM64-KVM, FAZ-VM64-OPC, and FAZ-VM64-XEN (Citrix XenServer and Open Source Xen). |

What's new

FortiAnalyzer version 6.0.3 includes the following new features and enhancements:

Event Manager

Event Handlers

The following new default Event Handlers have been added:

- Default-Malicious-Code-Detection
- Default-Malicious-Destination-Detection
- Default-High-Risk-App-Detection
- Default-Malicious-File-Detection
- Default-Suspicious-File Detection

FortiView

Log ID for long sessions

In FortiView, *Log ID = 0000000020* indicates a long session that is not yet closed. A long session has multiple logs but is still considered one session. The sent/received data of long sessions counts all interim traffic data reported by lines with *Log ID = 0000000020*.

When the session is closed, the *Log ID* is *13*.

Special Notices

This section highlights some of the operational changes that administrators should be aware of in FortiAnalyzer version 6.0.3.

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 6.0.3. 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 your FortiAnalyzer, see *FortiAnalyzer Upgrade Guide*.



Upgrading to FortiAnalyzer 6.0.2 from 6.0 or 6.0.1 is supported and does not trigger a log database rebuild.

This section contains the following topics:

- [Downgrading to previous versions on page 8](#)
- [Firmware image checksums on page 8](#)
- [FortiAnalyzer VM firmware on page 9](#)
- [SNMP MIB files on page 10](#)

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.

Google GCP

- `.out`: Download the 64-bit firmware image to upgrade your existing FortiAnalyzer VM installation.
- `.out.gcp.zip`: Download the 64-bit package for a new FortiAnalyzer VM installation.

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.

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 FortiManager product data sheet available on the Fortinet web site, <http://www.fortinet.com/products/fortimanager/virtual-security-management.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 6.0.3 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 6.0.3 support on page 11](#)
- [Feature support on page 13](#)
- [FortiGate Management on page 14](#)
- [Language support on page 14](#)
- [Supported models on page 15](#)

FortiAnalyzer version 6.0.3 support

The following table lists FortiAnalyzer version 6.0.3 product integration and support information:

| | |
|--------------------------------|--|
| Web Browsers | <ul style="list-style-type: none">• 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.• Mozilla Firefox version 61• Google Chrome version 68 Other web browsers may function correctly, but are not supported by Fortinet. |
| FortiOS/FortiOS Carrier | <ul style="list-style-type: none">• 6.0.0 to 6.0.3• 5.6.0 to 5.6.6• 5.4.0 to 5.4.9• 5.2.0 to 5.2.13 |
| FortiAnalyzer | <ul style="list-style-type: none">• 6.0.0 and later• 5.6.0 and later• 5.4.0 and later• 5.2.0 and later• 5.0.0 and later |
| FortiCache | <ul style="list-style-type: none">• 4.2.8• 4.2.6• 4.1.3• 4.0.4 |
| FortiClient | <ul style="list-style-type: none">• 5.6.0 and later• 5.4.0 and later• 5.2.0 and later |

| | |
|-------------------------|--|
| | <ul style="list-style-type: none"> • 5.0.4 and later |
| FortiMail | <ul style="list-style-type: none"> • 6.0.3 • 5.4.6 • 5.4.2 • 5.3.12 • 5.2.10 • 5.1.7 • 5.0.10 |
| FortiManager | <ul style="list-style-type: none"> • 6.0.0 and later • 5.6.0 and later • 5.4.0 and later • 5.2.0 and later • 5.0.0 and later |
| FortiSandbox | <ul style="list-style-type: none"> • 3.0.0 to 3.0.1 • 2.5.0 to 2.5.2 • 2.4.0 and 2.4.1 • 2.3.2 and 2.3.3 • 2.2.2 • 2.1.3 • 2.0.3 • 1.4.0 and later • 1.3.0 • 1.2.0 and 1.2.3 |
| FortiSwitch ATCA | <ul style="list-style-type: none"> • 5.0.0 and later • 4.3.0 and later • 4.2.0 and later |
| FortiWeb | <ul style="list-style-type: none"> • 6.0.1 • 5.9.1 • 5.8.6 • 5.8.3 • 5.8.1 • 5.8.0 • 5.7.2 • 5.6.1 • 5.5.6 • 5.4.1 • 5.3.9 • 5.2.4 • 5.1.4 • 5.0.6 |
| FortiDDoS | <ul style="list-style-type: none"> • 4.6.0 • 4.4.1 • 4.2.3 |

| | |
|---------------------------|--|
| | <ul style="list-style-type: none"> • 4.1.12 |
| FortiAuthenticator | <ul style="list-style-type: none"> • 5.3.1 • 5.2.2 • 5.1.0 • 5.0.0 • 4.3.0 • 4.2.0 • 4.1.0 • 4.0.0 |
| Virtualization | <ul style="list-style-type: none"> • Amazon Web Service AMI, Amazon EC2, Amazon EBS • Citrix XenServer 7.2 • Linux KVM Redhat 7.1 • Microsoft Azure • Microsoft Hyper-V Server 2012 and 2016 • OpenSource XenServer 4.2.5 • VMware ESXi versions 5.0, 5.5, 6.0, 6.5 and 6.7 |



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 | ✓ | | ✓ | |
| FortiAuthenticator | ✓ | | | |
| FortiCache | ✓ | | ✓ | ✓ |
| FortiClient registered to FortiGate | ✓ | ✓ | | ✓ |
| FortiClient registered to FortiClient EMS | ✓ | ✓ | | ✓ |
| FortiDDoS | ✓ | ✓ | ✓ | ✓ |
| FortiMail | ✓ | | ✓ | ✓ |
| FortiManager | ✓ | | ✓ | |

| Platform | Log View | FortiView | Event Management | Reports |
|--------------|----------|-----------|------------------|---------|
| 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 | | ✓ |
| 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 by exporting a predefined language from FortiManager, modifying the text to a different language, saving the file as a different language name, and then importing the file into FortiManager. For more information, see the *FortiAnalyzer Administration Guide*.

Supported models

This section identifies which FortiGate, FortiCarrier, FortiDDoS, FortiAnalyzer, FortiMail, FortiSandbox, FortiSwitch, FortiWeb, FortiCache, and FortiProxy models and firmware versions can send logs to a FortiAnalyzer appliance running version 6.0.3. 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 16](#)
- [FortiCarrier models on page 18](#)
- [FortiDDoS models on page 19](#)
- [FortiAnalyzer models on page 19](#)
- [FortiMail models on page 20](#)
- [FortiSandbox models on page 21](#)
- [FortiSwitch ATCA models on page 21](#)
- [FortiWeb models on page 21](#)

- [FortiCache models on page 23](#)
- [FortiProxy models on page 23](#)

FortiGate models

| Model | Firmware Version |
|--|------------------|
| <p>FortiGate: 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-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-1000D, FG-1200D, FG-1500D, FG-1500DT, FG-2000E, FG-2500E, FG-3000D, FG-3100D, FG-3200D, FG-3600C, FG3700D, FG-3800D, FG-3810D, FG-3815D, FG-3960E, FG-3980E</p> <p>FortiGate 5000 Series: FG-5001D, FG-5001E, FG-5001E1</p> <p>FortiGate DC:FG-800D-DC, FG1500D-DC, FG-3000D-DC, FG-3100D-DC, FG-3200D-DC, FG-3700D-DC, FG-3800D-DC, FG-3810D-DC, FG-3815D-DC</p> <p>FortiGate Hardware Low Encryption: FG-100D-LENC,</p> <p>Note: All license-based LENC is supported based on the FortiGate support list.</p> <p>FortiWiFi: 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>FortiGate VM: FG-VM64, FG-VM64-AWS, FG-VM64-AWSONDEMAND, FG-VM64-AZUREONDEMAND, FG-VM64-Azure, FG-VM64-GCP, FG-VM64-GCPONDEMAND, 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>FortiGate Rugged: FGR-30D, FGR-35D, FGR-60D, FGR-90D</p> | 6.0 |
| <p>FortiGate: 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>FortiGate 5000 Series: FG-5001C, FG-5001D, FG-5001E, FG-5001E1</p> <p>FortiGate DC: 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>FortiGate Hardware Low Encryption: FG-80C-LENC, FG-100D-LENC, FG-600C-LENC, FG-1000C-LENC</p> | 5.6 |

| Model | Firmware Version |
|---|------------------|
| <p>Note: All license-based LENC is supported based on the FortiGate support list.</p> | |
| <p>FortiWiFi: 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>FortiGate VM: 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>FortiGate Rugged: FGR-30D, FGR-35D, FGR-60D, FGR-90D</p> | |
| <p>FortiGate: 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>FortiGate 5000 Series: FG-5001C, FG-5001D, FG-5001E, FG-5001E1</p> <p>FortiGate 7000 Series: 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>FortiGate DC: 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>FortiGate Hardware Low Encryption: FG-80C-LENC, FG-100D-LENC, FG-600C-LENC, FG-1000C-LENC</p> | 5.4 |
| <p>Note: All license-based LENC is supported based on the FortiGate support list.</p> | |
| <p>FortiWiFi: 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>FortiGate VM: 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>FortiGate Rugged: FGR-30D, FGR-30D-ADSL-A, FGR-35D, FGR-60D, FGR-90D</p> | |

| Model | Firmware Version |
|---|------------------|
| <p>FortiGate: 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>FortiGate 5000 Series: 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>FortiGate DC: 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>FortiGate Low Encryption: 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>FortiWiFi: 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>FortiGate Rugged: FGR-60D, FGR-100C</p> <p>FortiGate VM: FG-VM, FG-VM64, FG-VM64-AWSONDEMAND, FG-VM-Azure, FG-VM64-HV, FG-VM64-KVM, FG-VM64-XEN</p> <p>FortiSwitch: FS-5203B, FCT-5902D</p> | 5.2 |

FortiCarrier models

| Model | Firmware Version |
|--|------------------|
| <p>FortiCarrier: FGT-3000D, FGT-3100D, FGT-3200D, FGT-3700D, FGT-3800D, FGT-3810D, FGT-3960E, FGT-3980E, FGT-5001D, FGT-5001E FortiCarrier-DC: FGT-3000D-DC, FGT-3100D-DC, FGT-3200D-DC, FGT-3700D-DC, FGT-3800D-DC, FGT-3810D-DC, FGT-3960E-DC, FGT-3980E-DC</p> <p>FortiCarrier-VM: FG-VM, FG-VM64, FG-VM64-AWS, FG-VM64-Azure, FG-VM64-GCP, FG-VM64-HV, FG-VM64-KVM, FG-VM64-OPC, FG-VM64-Xen</p> | 6.0 |
| <p>FortiCarrier: FGT-3000D, FGT-3100D, FGT-3200D, FGT-3240C, FGT-3600C, FGT-3700D, FGT-3700DX, FGT-3800D, FGT-3810D, FGT-3960E, FGT-3980E, FGT-5001C, FGT-5001D, FGT-5001E</p> | 5.6 |

| Model | Firmware Version |
|--|------------------|
| <p>FortiCarrier-DC: FGT-3000D-DC, FGC-3100D-DC, FGT-3200D-DC, FGT-3240C-DC, FGT-3600C-DC, FGT-3700D-DC, FGT-3800D-DC, FGT-3810D-DC, FGT-3960E-DC, FGT-3980E-DC</p> <p>FortiCarrier-VM: FG-VM, FG-VM64, FG-VM64-AWS, FG-VM64-AWS-AWSONDEMAND, FG-VM64-Azure, FG-VM64-GCP, FG-VM64-HV, FG-VM64-KVM, FG-VM64-OPC, FG-VM64-Xen</p> | |
| <p>FortiCarrier: FGT-3000D, FGT-3100D, FGT-3200D, FGT-3240C, FGT-3600C, FGT-3700D, FGT-3700DX, FGT-3800D, FGT-3810D, FGT-5001C, FGT-5001D, FGT-7030E, FGT-7040E</p> <p>FortiCarrier-DC: FGT-3000D-DC, FGC-3100D-DC, FGT-3200D-DC, FGT-3240C-DC, FGT-3600C-DC, FGT-3700D-DC, FGT-3800D-DC, FGT-3810D-DC</p> <p>FortiCarrier-VM: FG-VM, FG-VM64, FG-VM64-AWS, FG-VM64-AWS-AWSONDEMAND, FG-VM64-Azure, FG-VM64-HV, FG-VM64-KVM, FG-VM64-OPC, FG-VM64-Xen</p> | 5.4 |
| <p>FortiCarrier: FGT-3000D, FGT-3100D, FGT-3200D, FGT-3240C, FGT-3600C, FGT-3700D, FGT-3700DX, , FGT-3810A, FGT-3810D, FGT-3950B, FGT-3951B, FGT-5100B, FGT-5100C, FGT-5001D, FGT-5101C, FS-5203B, FT-5902D</p> <p>FortiCarrier-DC: FGT-3000D-DC, FGT-3100D-DC, FGT-3200D-DC, FGT-3240C-DC, FGT-3600C-DC, FGT-3700D-DC, FGT-3810A-DC, FGT-3810D-DC, FGT-3950B-DC, FGT-3951B-DC</p> <p>FortiCarrier-VM: FG-VM, FG-VM64, FG-VM64-AWS, FG-VM64-AWS-AWSONDEMAND, FG-VM64-HV, FG-VM64-KVM, FG-VM64-Xen</p> | 5.2 |

FortiDDoS models

| Model | Firmware Version |
|---|------------------|
| FortiDDoS: 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 |
|---|------------------|
| <p>FortiAnalyzer: 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.</p> <p>FortiAnalyzer VM: FAZ-VM64, FAZ-VM64-AWS, FAZ-VM64-Azure, FAZ-VM64-HV, FAZ-VM64-KVM, and FAZ-VM64-XEN (Citrix XenServer and Open Source Xen).</p> | 5.6 |

| Model | Firmware Version |
|---|------------------|
| FortiAnalyzer: 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. FortiAnalyzer VM: 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 |
| FortiAnalyzer: 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 FortiAnalyzer VM: FAZ-VM, FAZ-VM-AWS, FAZ-VM64, FAZ-VM64-Azure, FAZ-VM64-HV, FAZ-VM64-KVM, FAZ-VM64-XEN | 5.2 |
| FortiAnalyzer: 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 FortiAnalyzer VM: 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 |
|---|------------------|
| FortiMail: FE-60D, FE-200D, FE-200E, FE-400C, FE-400E, FE-1000D, FE-2000B, FE-2000E, FE-3000C, FE-3000E, FE-3200E FortiMail Low Encryption: FE-3000C-LENC | 5.4.6 5.4.2 |
| FortiMail: 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 FortiMail Low Encryption: FE-3000C-LENC FortiMail VM: FE-VM64, FE-VM64-HV, FE-VM64-XEN | 5.3.12 |
| FortiMail: FE-60D, FE-200D, FE-200E, FE-400C, FE-400E, FE-1000D, FE-2000B, FE-3000C, FE-3000D, FE-5002B FortiMail VM: FE-VM64, FE-VM64-HV, FE-VM64-XEN | 5.2.10 |
| FortiMail: FE-100C, FE-200D, FE-200E, FE-400B, FE-400C, FE-400E, FE-1000D, FE-2000B, FE-3000C, FE-3000D, FE-5001A, FE-5002B FortiMail VM: FE-VM64 | 5.1.7 |
| FortiMail: 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 FortiMail VM: FE-VM64 | 5.0.10 |

FortiSandbox models

| Model | Firmware Version |
|--|------------------|
| FortiSandbox: FSA-1000D, FSA-2000E, FSA-3000D, FSA-3000E, FSA-3500D | 3.0.1 |
| FortiSandbox VM: FSA-KVM, FSA-VM | 3.0.0 |
| | 2.5.2 |
| | 2.5.1 |
| | 2.5.0 |
| FortiSandbox: FSA-1000D, FSA-2000E, FSA-3000D, FSA-3000E, FSA-3500D | 2.4.1 |
| FortiSandbox VM: FSA-VM | 2.4.0 |
| | 2.3.3 |
| | 2.3.2 |
| FortiSandbox: FSA-1000D, FSA-3000D, FSA-3500D | 2.2.2 |
| FortiSandbox VM: FSA-VM | 2.1.3 |
| FortiSandbox: FSA-1000D, FSA-3000D | 2.0.3 |
| FortiSandbox VM: FSA-VM | 1.4.2 |
| FortiSandbox: 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 |
|---|------------------|
| FortiController: FTCL-5103B, FTCL-5902D, FTCL-5903C, FTCL-59 | 5.2.0 |
| FortiSwitch-ATCA: FS-5003A, FS-5003B | 5.0.0 |
| FortiController: FTCL-5103B, FTCL-5903C, FTCL-5913C | |
| FortiSwitch-ATCA: FS-5003A, FS-5003B | 4.3.0 |
| | 4.2.0 |

FortiWeb models

| Model | Firmware Version |
|---|------------------|
| FortiWeb: FWB-100D, FWB-400C, FWB-400D, FWB-600D, FWB-1000D, FWB-1000E, FWB-2000E, FWB-3000C, FWB-3000CFSX, FWB-3000D, FWB-3000DFSX, FWB-3000E, FWB-3010E, FWB-4000C, FWB-4000D, FWB-4000E | 6.0.1 |
| FortiWeb VM: FWB-VM, FWB-HYPERV, FWB-XENOPEN, FWB-XENSERVER | |

| Model | Firmware Version |
|--|------------------|
| <p>FortiWeb: FWB-1000D, FWB-1000E, FWB-100D, FWB-2000E, FWB-3000C, FWB-3000CFSX, FWB-3000D, FWB-3000DFSX, FWB-3000E, FWB-3010E, FWB-4000C, FWB-4000D, FWB-4000E, FWB-400C, FWB-400D, FWB-600D</p> <p>FortiWeb VM: FWB-Azure, FWB-CMINTF, FWB-HYPERV, FWB-KVM, FWB-KVM-PAYG, FWB-VM, FWB-VM-PAYG, FWB-XENAWS, FWB-XENAWS-Ondemand, FWB-XENOPEN</p> | 5.9.1 |
| <p>FortiWeb: FWB-1000C, FWB-1000D, FWB-1000E, FWB-100D, FWB-2000E, FWB-3000C, FWB-3000CFSX, FWB-3000D, FWB-3000DFSX, FWB-3000E, FWB-3010E, FWB-4000C, FWB-4000D, FWB-4000E, FWB-400C, FWB-400D, FWB-600D</p> <p>FortiWeb VM: FWB-Azure, FWB-Azure-Ondemand, FWB-CMINTF, FWB-HYPERV, FWB-KVM, FWB-KVM-PAYG, FWB-VM, FWB-VM-PAYG, FWB-XENAWS, FWB-XENAWS-Ondemand, FWB-XENOPEN</p> | 5.8.6 |
| <p>FortiWeb: FWB-1000C, FWB-1000D, FWB-100D, FWB-2000E, FWB-3000C, FWB-3000CFSX, FWB-3000D, FWB-3000DFSX, FWB-3000E, FWB-3010E, FWB-4000C, FWB-4000D, FWB-4000E, FWB-400C, FWB-400D, FWB-600D</p> <p>FortiWeb VM: FWB-Azure, FWB-HYPERV, FWB-KVM, FWB-OS1, FWB-VM, FWB-XENAWS, FWB-XENAWS-Ondemand, FWB-XENOPEN</p> | 5.7.2 |
| <p>FortiWeb: FWB-1000C, FWB-1000D, FWB-100D, FWB-2000E, FWB-3000C, FWB-3000CFSX, FWB-3000D, FWB-3000DFSX, FWB-3000E, FWB-3010E, FWB-4000C, FWB-4000D, FWB-4000E, FWB-400C, FWB-400D, FWB-600D</p> <p>FortiWeb VM: FWB-Azure, FWB-HYPERV, FWB-KVM, FWB-VM, FWB-XENAWS, FWB-XENAWS-Ondemand, FWB-XENOPEN</p> | 5.6.1 |
| <p>FortiWeb: 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</p> <p>FortiWeb VM: FWB-VM-64, FWB-XENAWS, FWB-XENOPEN, FWB-XENSERVR, FWB-HYPERV, FWB-KVM, FWB-AZURE</p> | 5.5.6 |
| <p>FortiWeb: FWB-100D, FWB-400C, FWB-1000C, FWB-3000C, FWB-3000CFSX, FWB-3000D, FWB-3000DFSX, FWB-3000E, FWB-4000C, FWB-4000D, FWB-4000E</p> <p>FortiWeb VM: FWB-VM64, FWB-XENAWS, FWB-XENOPEN, FWB-XENSERVR, FWB-HYPERV</p> | 5.4.1 |
| <p>FortiWeb: 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</p> <p>FortiWeb VM: FWB-VM64, FWB-XENAWS, FWB-XENOPEN, FWB-XENSERVR, and FWB-HYPERV</p> | 5.3.9 |
| <p>FortiWeb: 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</p> <p>FortiWeb VM: FWB-VM64, FWB-HYPERV, FWB-XENAWS, FWB-XENOPEN, FWB-XENSERVR</p> | 5.2.4 |

FortiCache models

| Model | Firmware Version |
|---|------------------|
| FortiCache: FCH-400C, FCH-400E, FCH-1000C, FCH-1000D, FCH-3000C, FCH-3000D, FCH-3900E FortiCache VM: FCH-VM64, FCH-KVM | 4.1 |
| FortiCache: FCH-400C, FCH-400E, FCH-1000C, FCH-1000D, FCH-3000C, FCH-3000D, FCH-3900E FortiCache VM: FCH-VM64 | 4.0 |

FortiProxy models

| Model | Firmware Version |
|---|------------------|
| FortiProxy: FPX-400E, FPX-2000E FortiProxy VM: FPX-KVM, FPX-VM64 | 1.0 |

Resolved Issues

The following issues have been fixed in FortiAnalyzer version 6.0.3. For inquiries about a particular bug, please contact [Customer Service & Support](#).

| Bug ID | Description |
|--------|---|
| 477935 | FortiAnalyzer HA status to display all members' IP from the same interface type. |
| 482517 | Add support for long live session when FortiView source is FortiAnalyzer or FortiCloud. |
| 485300 | B1678: rebuild-db hung on 99.1%. |
| 489410 | 'Config sync not allowed' after HA status had a flapping. |
| 496713 | If using IE or Edge, nothing is displayed on GUI just after logging in thru IPv6. |
| 499056 | In Log View, select text doesn't work on Chrome browser. |
| 501181 | Log forward to syslog stops with original_ip settings (with long log length 1700+). |
| 504967 | OFTPD unresponsive and constantly crashes with error: signal 11 seg fault - unable to receive logs. |
| 505186 | Fortiview > top cloud applications sentbyte/rcvdbyte is always 0 for videos played. |
| 505251 | Event handler does not detect a character at position 256 into the message field. |
| 506196 | Non-FortiGate ADOM (except FortiCarrier ADOM) doesn't save 'any' logic filter for custom created event handler. |
| 506431 | IOC reports created from predefined datasets shows incorrect data. |
| 506992 | FortiView shows the country flag icon even when dstcountry is set to Reserved for IPv6 address. |
| 507295 | syncsched uses high CPU on FAZ-HA Master. |
| 507674 | 'fmgd' crashes multiple times with signal 11 error. |
| 508102 | Log forwarding from FAZ no longer includes timezone offset, causing issues for SIEM and other products. |
| 508209 | In Historical FortiView from FAZ, some drill-down tabs take a long time to load due to slow response from FAZ. |
| 509107 | Log view returns 403 forbidden error for remote admin users referencing RADIUS server with spaces in the names. |
| 509328 | Top SSID NOC widget has sent and received legends reversed. |
| 511604 | Accessing the Learning Report from the FortiGate GUI returns multiple errors and uses high CPU and memory on FortiAnalyzer. |
| 515762 | B0205: Resource Usage Details chart resets CPU and memory to zero after the second day. |
| 516205 | LogFWD filter does not work properly when dealing with message with multiple logs. |

| Bug ID | Description |
|--------|-----------------------------|
| 516235 | FAZ HA monitor improvement. |

Known Issues

The following issues have been identified in FortiAnalyzer version 6.0.3. For inquiries about a particular bug or to report a bug, please contact [Fortinet Customer Service & Support](#).

| Bug ID | Description |
|--------|---|
| 421340 | Many messages in event log: Device login failed for restapi request due to empty user name. |
| 468450 | LDAP query unable to retrieve userPrincipalName for users. |
| 500413 | Mail server test fails from GUI if the name has a space. |
| 517559 | Scheduled reports do not run. Report Calendar shows report status as pending. |
| 517724 | Dashboard widget "System Resources" shows wrong output for time period. |
| 524252 | [B0955] Handler, 6.2/6.0 FortiGate anomaly log cannot trigger IPS alert. |

Change Log

| Date | Change Description |
|------------|---|
| 2018-11-02 | Initial release of 6.0.3. |
| 2018-11-07 | Added FAZ-VM64-GCP to <i>Supported Models</i> . |
| 2018-11-15 | Added support for FortiMail 6.0.3. |
| 2018-11-19 | Added 515762 to <i>Resolved issues</i> . |
| 2018-11-21 | Added <i>FortiView > Log ID for long sessions</i> to <i>What's New</i> . |
| 2018-11-27 | Clarified Syslog support in <i>Feature Support</i> . |
| 2019-01-02 | Added 485300 to <i>Resolved issues</i> . |
| 2019-01-10 | Added 524252 to <i>Known Issues</i> . |
| 2019-01-11 | Updated <i>Product Integration</i> . |
| 2019-01-16 | Added FortiAuthenticator to <i>Feature Support</i> . |
| 2019-01-25 | Added 482517 to <i>Resolved Issues</i> . |
| 2019-12-17 | Added 516235 and 489410 to <i>Resolved Issues</i> . |



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