

FortiAnalyzer - Release Notes

Version 5.6.4

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FortiAnalyzer 5.6.4 Release Notes

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Change Log

| Date | Change Description |
|------------|--|
| 2018-05-16 | Initial release of 5.6.4. |
| 2018-06-25 | Removed 470516 and added 494737 under <i>Known Issues > Log View</i> . |
| 2018-06-27 | Added note to <i>Product Integration > Supported Models > FortiGate Models > 5.6 > FortiGate Hardware Low Encryption</i> . |
| 2018-06-28 | Added 5.6.5 support to <i>Product Integration & Support > FortiOS</i> . |
| 2018-07-03 | Added FortiGate 6000 Series support to <i>Product Integration & Support > Supported Models > FortiGate Models > 5.4</i> . |
| 2018-07-16 | Updated <i>Product Integration > Supported Models > FortiMail and FortiSandbox</i> . |
| 2018-07-19 | Updated <i>Product Integration > Supported Models > FortiMail</i> for 5.4.5. |
| 2018-08-09 | Updated <i>Product Integration > Supported Models > FortiSandbox</i> for 2.5.2. |
| 2018-09-07 | Updated <i>Product Integration > Supported Models > FortiWeb</i> . |
| 2018-11-06 | Added FAZ-VM64-GCP to <i>Introduction > Supported Models</i> . |

Introduction

This document provides the following information for FortiAnalyzer version 5.6.4 build 1678:

- [Supported models](#)
- [Special Notices](#)
- [Upgrade Information](#)
- [Product Integration and Support](#)
- [Resolved Issues](#)
- [Known Issues](#)

For more information on upgrading your FortiAnalyzer device, see the *FortiAnalyzer Upgrade Guide*.

Supported models

FortiAnalyzer version 5.6.4 supports the following models:

| | |
|-------------------------|--|
| FortiAnalyzer | FAZ-200D, FAZ-200F, FAZ-300D, FAZ-300F, FAZ-400E, 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, and FAZ-VM64-XEN (Citrix XenServer and Open Source Xen). |

Minimum screen resolution

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

Special Notices

This section highlights some of the operational changes that administrators should be aware of in FortiAnalyzer version 5.6.4.

Mixed HA groups

FortiAnalyzer uses the High Availability (HA) group name to create and register FortiGate devices in Device Manager. When multiple FortiGate clusters use the same group name, they appear as one, mixed cluster in the *Device Manager* pane in FortiAnalyzer GUI. The solution is to disable automatic grouping of HA members in FortiAnalyzer and clean up the mixed cluster.

Automatic grouping of HA members is enabled by default in FortiAnalyzer.

The following example describes how to clean up a mixed cluster in FortiAnalyzer that contains two FortiGate clusters.

To disable automatic grouping of HA members:

1. Log on to FortiAnalyzer and run the following command:

```
conf sys global
set ha-member-auto-grouping disable
end
```

To clean up the mixed cluster:

1. From FortiOS GUI, identify the High Availability (HA) primary and secondary members for the two clusters, according to the FortiGate HA infrastructure.
2. In FortiAnalyzer GUI, clean up the mixed HA cluster by deleting the HA members for the second HA cluster.
 - a. Go to *Device Manager*.
 - b. Right-click the HA cluster and select *Edit*.
 - c. Click the *Delete* icon to delete the members that do not belong to this cluster.

The result is one HA cluster with the required devices. The deleted devices for the second cluster are displayed in the *Unregistered device* list.

3. From FortiAnalyzer CLI, delete all the VDOM names from the mixed HA cluster by using the `exe log device vdom delete <Device Name> <VDOM>` command.
4. From FortiAnalyzer GUI, verify and promote unregistered devices to the second cluster.
 - a. Go to *Device Manager*, and verify that the deleted devices for the second HA cluster are displayed in the *Unregistered device* list as separate HA devices.
 - b. Promote the unregistered HA devices as HA devices.
5. In *Device Manager*, clean up the second cluster.
 - a. Right-click the secondary device in the second cluster, and select *Edit*.
 - b. Clear the *HA Cluster* check box to convert the secondary device to a standalone device.

- c. Right-click the primary device in the second cluster, and select *Edit*.
 - d. Add the secondary device back to the cluster.
6. In FortiAnalyzer, verify that there is a proper VDOM on the second cluster. If not, follow step 3 to delete the mixed VDOM by using the CLI.
7. From FortiAnalyzer GUI, go to *Device Manager*, and press F5 to load all the VDOMs into the GUI.

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.

IPsec connection to FortiOS for logging

FortiAnalyzer 5.4.2 and later does not support an IPsec connection with FortiOS 5.0/5.2. However UDP or TCP + reliable are supported.

Instead of IPsec, you can use the FortiOS reliable logging feature to encrypt logs and send them to FortiAnalyzer. You can enable the reliable logging feature on FortiOS by using the `configure log fortianalyzer setting` command. You can also control the encryption method on FortiOS by using the `set enc-algorithm default/high/low/disable` command.

Datasets Related to Browse Time

If upgrading from an image prior to FAZ 5.4.2, cloned datasets that query for browse time may not be able to return any results after upgrade.

FortiAnalyzer 5.4.2 contains enhancements to calculating the estimated browse time. Due to the changes, cloned datasets that query for browse time may not be able to return any results after upgrade.

System Configuration or VM License is Lost after Upgrade

When upgrading FortiAnalyzer from 5.4.0 or 5.4.1 to 5.4.x or 5.6.0, it is imperative to reboot the unit before installing the 5.4.x or 5.6.0 firmware image. Please see the *FortiAnalyzer Upgrade Guide* for details about upgrading. Otherwise, FortiAnalyzer may lose system configuration or VM license after upgrade. There are two options to recover the FortiAnalyzer unit:

1. Reconfigure the system configuration or add VM license via CLI with `execute add-vm-license <vm license>`.
2. Restore the 5.4.0 backup and upgrade to 5.4.2.

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 `ebtime` of the current log.

Port 8443 reserved

Port 8443 is reserved for `https-logging` from FortiClient EMS for Chromebooks.

Upgrade Information

Upgrading to FortiAnalyzer 5.6.4

You can upgrade FortiAnalyzer 5.4.0 or later directly to 5.6.4.

If you are upgrading from versions earlier than 5.4.0, you must upgrade to FortiAnalyzer 5.4 first. (We recommend that you upgrade to 5.4.5, the latest version of FortiAnalyzer 5.4.)



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

ESX VM network mapping after upgrade

Starting with FortiAnalyzer 5.6.0, Fortinet changed the network interface mapping as shown below. After upgrade to FortiAnalyzer 5.6.4, you must edit ESX VM network mapping in order to preserve network connectivity.

- port1 -> Network Adapter 1
- port2 -> Network Adapter 2
- port3 -> Network Adapter 3
- port4 -> Network Adapter 4

New FortiAnalyzer 5.6.0 and later VM installations use the correct mapping with ESX 5.5 and later.

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

FortiAnalyzer version 5.6.4 support

The following table lists FortiAnalyzer version 5.6.4 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 59• Google Chrome version 66 Other web browsers may function correctly, but are not supported by Fortinet. |
| FortiOS/FortiOS Carrier | <ul style="list-style-type: none">• 5.6.0 to 5.6.5• 5.4.0 to 5.4.8• 5.2.0 to 5.2.13 |
| FortiAnalyzer | <ul style="list-style-type: none">• 5.6.0 to 5.6.3• 5.4.0 to 5.4.3• 5.2.0 to 5.2.9• 5.0.0 to 5.0.13 |
| FortiCache | <ul style="list-style-type: none">• 4.2.7• 4.1.6• 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• 5.0.4 and later |
| FortiMail | <ul style="list-style-type: none">• 5.4.5• 5.3.12• 5.2.10• 5.1.7• 5.0.10 |
| FortiManager | <ul style="list-style-type: none">• 5.6.0 to 5.6.4• 5.4.0 to 5.4.3• 5.2.0 and later• 5.0.0 and later |

- FortiSandbox**
- 2.5.2
 - 2.5.0
 - 2.4.1
 - 2.4.0
 - 2.3.3
 - 2.3.2
 - 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**
- 5.2.5

- FortiWeb**
- 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**
- 4.5.0
 - 4.4.2
 - 4.3.2
 - 4.2.3
 - 4.1.12

- FortiAuthenticator**
- 5.2.2
 - 5.1.2
 - 5.0.0
 - 4.3.4
 - 4.2.1
 - 4.1.2
 - 4.0.1

Virtualization

- Amazon Web Service AMI, Amazon EC2, Amazon EBS
- Citrix XenServer 6.2
- Linux KVM Redhat 6.5
- Microsoft Azure
- Microsoft Hyper-V Server 2008 R2, 2012 & 2012 R2
- OpenSource XenServer 4.2.5
- VMware:
 - ESX versions 4.0 and 4.1
 - ESXi versions 4.0, 4.1, 5.0, 5.1, 5.5, 6.0 and 6.5



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 | ✓ | | ✓ | |
| 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. 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 | |
| FortiMeter | |
| FGT-VM License Activation | |
| Chassis Management | ✓ |
| High Availability | ✓ |

Language support

The following table lists FortiAnalyzer language support information.

| Language | GUI | Reports |
|-----------------------|-----|---------|
| English | ✓ | ✓ |
| Chinese (Simplified) | ✓ | ✓ |
| Chinese (Traditional) | ✓ | ✓ |
| French | | ✓ |
| Hebrew | | ✓ |
| Hungarian | | ✓ |
| Japanese | ✓ | ✓ |
| Korean | ✓ | ✓ |
| Portuguese | | ✓ |

| Language | GUI | Reports |
|----------|-----|---------|
| 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 import language translation files for these languages via the command line interface 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, see the *FortiAnalyzer CLI Reference*.

Supported models

The following tables list which FortiGate, FortiCarrier, FortiDDoS, FortiAnalyzer, FortiMail, FortiManager, FortiWeb, FortiCache, and FortiSandbox models and firmware versions can log to a FortiAnalyzer appliance running version 5.6.4. 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.

FortiGate models

| Model | Firmware Version |
|---|------------------|
| <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-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</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> <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-GCP, FG-VM64-HV, FG-VM64-KVM, FG-VM64-XEN, FG-VMX-Service-Manager, FOSVM64, FOSVM64-KVM</p> <p>FortiGate Rugged: FGR-30D, FGR-35D, FGR-60D, FGR-90D</p> <p>FortiManager: FMG-200D, FMG-200F, FMG-300D, FMG-300E, FMG-400E, FMG-1000D, FMG-2000E, FMG-3000F, FMG-3900E, FMG-4000D, and FMG-4000E FMG-VM64, FMG-VM64-AWS, FMG-VM64-Azure, FMG-VM64-HV (including Hyper-V 2016), FMG-VM64-KVM, and FMG-VM64-XEN (for both Citrix and Open Source Xen).</p> | 5.6 |

| Model | Firmware Version |
|---|------------------|
| <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 6000 Series: FG-6000F, FG-6300F, FG-6301F, FG-6500F, FG-6501F</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> <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> | 5.4 |

| 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: 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>FortiCarrier DC: 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>FortiCarrier VM: FCR-VM, FCR-VM64, FCR-VM64-AWS, FCR-VM64-AWSONDEMAND, FCR-VM64-HV, FCR-VM64-KVM</p> | 5.4 |

| Model | Firmware Version |
|--|------------------|
| FortiCarrier: 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 FortiCarrier DC: FCR-3000D-DC, FCR-3100D-DC, FCR-3200D-DC, FCR-3700D-DC, FCR-3810D-DC FortiCarrier Low Encryption: FCR-5001A-DW-LENC FortiCarrier VM: FCR-VM, FCR-VM64, FCR-VM64-HV, FCR-VM64-KVM, FCR-Vm64-XEN, FCR-VM64-AWSONDEMAND | 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 |
|---|------------------|
| 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. 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). | 5.6 |
| 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 | 5.4.5 |
| 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 FortiSandbox VM: FSA-KVM, FSA-VM | 2.5.2 |
| FortiSandbox: FSA-1000D, FSA-2000E, FSA-3000D, FSA-3000E, FSA-3500D FortiSandbox VM: FSA-VM | 2.4.1 2.3.3 |
| FortiSandbox: FSA-1000D, FSA-3000D, FSA-3500D FortiSandbox VM: FSA-VM | 2.2.2 2.1.3 |
| FortiSandbox: FSA-1000D, FSA-3000D FortiSandbox VM: FSA-VM | 2.0.3 1.4.2 |
| FortiSandbox: FSA-1000D, FSA-3000D | 1.4.0 and 1.4.1 1.3.0 1.2.0 and later |

FortiSwitch ACTA models

| Model | Firmware Version |
|---|------------------|
| FortiController: FTCL-5103B, FTCL-5902D, FTCL-5903C, FTCL-59 | 5.2.0 |

| Model | Firmware Version |
|---|------------------|
| FortiSwitch-ATCA: FS-5003A, FS-5003B FortiController: FTCL-5103B, FTCL-5903C, FTCL-5913C | 5.0.0 |
| FortiSwitch-ATCA: FS-5003A, FS-5003B | 4.3.0 4.2.0 |

FortiWeb models

| Model | Firmware Version |
|---|------------------|
| 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 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 | 5.9.1 |
| 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 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 | 5.8.6 |
| 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 FortiWeb VM: FWB-Azure, FWB-HYPERV, FWB-KVM, FWB-OS1, FWB-VM, FWB-XENAWS, FWB-XENAWS-Ondemand, FWB-XENOPEN | 5.7.2 |
| 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 FortiWeb VM: FWB-Azure, FWB-HYPERV, FWB-KVM, FWB-VM, FWB-XENAWS, FWB-XENAWS-Ondemand, FWB-XENOPEN | 5.6.1 |
| 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 FortiWeb VM: FWB-VM-64, FWB-XENAWS, FWB-XENOPEN, FWB-XENSERVR, FWB-HYPERV, FWB-KVM, FWB-AZURE | 5.5.6 |
| FortiWeb: FWB-100D, FWB-400C, FWB-1000C, FWB-3000C, FWB-3000CFSX, FWB-3000D, FWB-3000DFSX, FWB-3000E, FWB-4000C, FWB-4000D, FWB-4000E FortiWeb VM: FWB-VM64, FWB-XENAWS, FWB-XENOPEN, FWB-XENSERVR, FWB-HYPERV | 5.4.1 |

| Model | Firmware Version |
|--|------------------|
| 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 FortiWeb VM: FWB-VM64, FWB-XENAWS, FWB-XENOPEN, FWB-XENSERVEN, and FWB-HYPERV | 5.3.9 |
| 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 FortiWeb VM: FWB-VM64, FWB-HYPERV, FWB-XENAWS, FWB-XENOPEN, FWB-XENSERVEN | 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 |

Resolved Issues

The following issues have been fixed in FortiAnalyzer version 5.6.4. For inquiries about a particular bug, please contact [Customer Service & Support](#).

Event Management

| Bug ID | Description |
|--------|--|
| 470373 | When rebuilding the database, previously triggered event handlers re-send alert mails. |

FortiView

| Bug ID | Description |
|--------|--|
| 471406 | FortiAnalyzer has the following issues with advanced search: <ul style="list-style-type: none">• Searching <code>threatype=malware-detected</code> does not work.• Using regular search to choose the filter and search. Then, switching to advanced search, the search text is trimmed when after pressing enter.• Converting from advanced search to regular search does not change back to regular search format where it is in a label with readable text. |
| 474414 | The application category <i>Unknown</i> may not be listed on FortiView. |

Log View

| Bug ID | Description |
|--------|--|
| 465585 | Saving custom views fails without an error message if special characters are used. |
| 471932 | The search window may take up a large part of the screen. |
| 473170 | There may be an error when users try to save a custom view with special characters in <code>catdesc</code> . |
| 474935 | Chromebooks stops logging when HTTP access is not allowed on the physical interface. |
| 455739 | FortiAnalyzer may categorize SysLog logs entries under the incorrect device. |
| 473907 | FortiAnalyzer should not truncate syslog messages sent from Windows AD server using syslog agent. |

Reports

| Bug ID | Description |
|--------|---|
| 449060 | Changing the case option setting on LDAP result causing FortiAnalyzer to generate incorrect or empty reports. |
| 473771 | Report Filters may not contain FortiMail log fields. |
| 476645 | SFTP password length is limited to 31 characters. |

System Settings

| | |
|--------|---|
| 476109 | FortiAnalyzer may forward logs with incorrect logid. |
| 476701 | Log forwarding sends <code>poluuid</code> value without closing double quotes. |
| 467963 | Alert console displays messages related to <code>sqllogd</code> daemon is suspended due to log aggregation. |

Known Issues

The following issues have been identified in FortiAnalyzer version 5.6.4. For inquiries about a particular bug or to report a bug, please contact [Fortinet Customer Service & Support](#).

Device Manager

| Bug ID | Description |
|--------|---|
| 459492 | FortiAnalyzer may show incomplete FortiGate version number. |

FortiView

| Bug ID | Description |
|--------|---|
| 474061 | When using wildcard expression for scripts with multiple subnets, search returns incorrect results. |

Log View

| Bug ID | Description |
|--------|---|
| 442713 | When a Web Filter category has a space character in its name, it can lead to an empty filter result if it is used along with another web filter category. |
| 494737 | FortiAnalyzer may not process logs as expected. |
| 477858 | Right-click search is not possible for column that has value 0. |
| 481771 | FortiAnalyzer cannot receive logs from FortiWeb if encryption is enabled. |

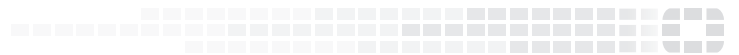
Reports

| Bug ID | Description |
|--------|---|
| 470616 | Entries may overlap in the reports generated in PDF format. |

| Bug ID | Description |
|--------|---|
| 488592 | The <i>Top SSL Tunnel Users by Bandwidth</i> and <i>Top SSL Users by Duration</i> charts may show different bandwidth values. |
| 488846 | The <i>Save as Template</i> button in the layout is broken. |



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