FortiAnalyzer - Release Notes

Version 6.4.13

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Change Log

Date	Change Description
2023-09-28	Initial release.
2023-10-12	Updated Resolved Issues on page 37.

FortiAnalyzer 6.4.13 Release

This document provides information about FortiAnalyzer version 6.4.13 build 2638.

The recommended minimum screen resolution for the FortiAnalyzer GUI is 1920 x 1080. Please adjust the screen resolution accordingly. Otherwise, the GUI may not display properly.

This section includes the following topics:

- Supported models on page 6
- FortiAnalyzer VM subscription license on page 6
- FortiRecorder on page 7

Supported models

FortiAnalyzer version 6.4.13 supports the following models:

FortiAnalyzer	FAZ-150G, FAZ-300G, FAZ-200F, FAZ-300F, FAZ-400E, FAZ-800F, FAZ-800G, FAZ-1000E, FAZ-2000E, FAZ-3000E, FAZ-1000F, FAZ-3000F, FAZ-3000G, FAZ-3500E, FAZ-3500F, FAZ-3500G, FAZ-3700F, FAZ-3700G and FAZ-3900E.
FortiAnalyzer VM	FAZ-VM64, FAZ-VM64-Ali, 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).

FortiAnalyzer VM subscription license

The FortiAnalyzer VM subscription license supports FortiAnalyzer version 6.4.1 and later. For information about supported firmware, see FortiAnalyzer VM firmware on page 11.

See also Appendix A - Default and maximum number of ADOMs supported on page 39.

You can use the FortiAnalyzer VM subscription license with new FAZ-VM installations.

For existing FAZ-VM installations, you cannot upgrade to a FortiAnalyzer VM subscription license. Instead, you must migrate data from the existing FAZ-VM to a new FAZ-VM with subscription license.

FortiRecorder

This section identifies what FortiAnalyzer models support the FortiRecorder module and what FortiCamera models are supported.

Supported models for FortiRecorder

Below is a list of the FortiAnalyzer appliances that support the FortiRecorder module.

Platform	Maximum number of cameras
FAZ-200F	4
FAZ-300F	6
FAZ-400E	12
FAZ-800F	16
FAZ-1000E	30
FAZ-1000F	50
FAZ-2000E	40
FAZ-3000F	50
FAZ-3700F	60
FAZ-3500G	50

Supported cameras

The following FortiCamera models are supported in the FortiRecorder module:

- FCM-CB20
- FCM-FD20
- FCM-FD20B
- FCM-FD40
- FCM-MB40
- FCM-MD20
- FCM-MD40
- FCM-OB30

Special Notices

This section highlights some of the operational changes that administrators should be aware of in FortiAnalyzer version 6.4.13.

FortiDeceptor logs

Logs sent from FortiDeceptor to FortiAnalyzer 6.4 may not display in FortiAnalyzer GUI because of an incorrect ADOM type for FortiDeceptor. You can reset the FortiDeceptor ADOM type in FortiAnalyzer to workaround this issue.

This issue is fixed in FortiAnalyzer 6.4.4 and later. However if the FortiDeceptor ADOM type is incorrect before upgrading to FortiAnalyzer 6.4.4 or later, you must still reset the FortiDeceptor ADOM type to correct the issue.

To reset the FortiDeceptor ADOM type:

1. In FortiAnalyzer, reset the FortiDeceptor ADOM by running the following command:
   `execute reset adom-settings FortiDeceptor 3 1 18`
2. Ensure that the FortiDeceptor ADOM type is *FDC* by running the following command:
   `diag dvm adom list`
3. From FortiDeceptor, sends logs again to FortiAnalyzer.
   FortiDeceptor displays as an unregistered device in FortiAnalyzer.
4. In FortiAnalyzer, authorize the FortiDeceptor device.

Hyperscale firewall mode

FortiAnalyzer does not support logs from the following models when they have hyperscale firewall mode and netflow enabled:

- FortiGate-1800F
- FortiGate-1801F
- FortiGate-4200F
- FortiGate-4201F
- FortiGate-4400F
- FortiGate-4401F

FortiAnalyzer only supports logs when the normal firewall mode with standard FortiGate logging are enabled.

FortiAnalyzer 3700F performance issues

FortiAnalyzer 3700F models running version 6.0.3 and later may experience high *Disk I/O Utilization*, large differences between *Insert Rate Vs Receive Rate*, and large *Log Insert Lag Time*.

To prevent these performance issues, FortiAnalyzer allows the disk cache to warm up for 30 minutes before inserting logs into the SQL database.

Citrix XenServer default limits and upgrade

Citrix XenServer limits ramdisk to 128M by default. However the FAZ-VM64-XEN image is larger than 128M. Before updating to FortiAnalyzer 6.4, increase the size of the ramdisk setting on Citrix XenServer.

To increase the size of the ramdisk setting:

1. On Citrix XenServer, run the following command:
   ```
   xenstore-write /mh/limits/pv-ramdisk-max-size 536,870,912
   ```
2. Confirm the setting is in effect by running `xenstore-ls`.
   ```
   -----------------------
   limits = ""
   pv-kernel-max-size = "33554432"
   pv-ramdisk-max-size = "536,870,912"
   boot-time = ""
   --------------------------
   ```
3. Remove the pending files left in `/run/xen/pygrub`.

The ramdisk setting returns to the default value after rebooting.

FortiAnalyzer Cloud VM does not support FortiGate 6.4.0

FortiManager and FortiAnalyzer Cloud VMs do not currently support FortiGate 6.4.0. Cloud VM users should continue using FortiGate firmware 6.2 builds. Cloud platforms will be supported in a future 6.4 patch release.

FortiAnalyzer VM upgrade requires more memory

When upgrading FortiAnalyzer VM units from FortiAnalyzer 6.2.x to FortiAnalyzer 6.4.0 and later, the upgrade may fail because of memory allocation.

Workaround: Before upgrading FortiAnalyzer VM to FortiAnalyzer 6.4.0 and later, change the memory allocation to 8 GB of RAM.

Maximum ADOM limits for FortiAnalyzer

FortiAnalyzer hardware devices and VMs display a warning when the maximum number of ADOMs is reached or exceeded. The platform does not enforce the limit; however, adding more ADOMs may affect the performance of the unit. For more details, see Appendix A - Default and maximum number of ADOMs supported on page 39.

Port 8443 reserved

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

All OFTP connections must be encrypted for FortiAnalyzer 6.2.0 (or higher)

Prior to upgrading to FortiAnalyzer 6.2, make sure that all FortiGate devices are configured to use encryption when communicating with FortiAnalyzer. Starting with FortiAnalyzer 6.2.0, all OFTP communications must be encrypted.

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 t1sv1
end
```

Upgrade Information

You can upgrade FortiAnalyzer 6.2.0 or later directly to 6.4.13.

For other upgrade paths and details about upgrading your FortiAnalyzer, see *FortiAnalyzer Upgrade Guide*.

This section contains the following topics:

- Downgrading to previous versions on page 11
- Firmware image checksums on page 11
- FortiAnalyzer VM firmware on page 11
- SNMP MIB files on page 13

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 the following virtualization environments: Aliyun, Amazon Web Services, Citrix and Open Source XenServer, Linux KVM, Microsoft Azure, Microsoft Hyper-V Server, and VMware ESX/ESXi.

Aliyun

- `.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.

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.

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 FortiAnalyzer Data Sheet available on the Fortinet web site. 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 6.4.13 support of other Fortinet products. It also identifies what FortiAnalyzer features are supported for log devices 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 6.4.13 support on page 14
- Feature support on page 18
- Language support on page 19
- Supported models on page 20

FortiAnalyzer version 6.4.13 support

This section identifies FortiAnalyzer version 6.4.13 product integration and support information:

- Web browsers on page 14
- FortiOS/FortiOS Carrier on page 15
- FortiAnalyzer on page 15
- FortiAuthenticator on page 15
- FortiCache on page 15
- FortiClient on page 16
- FortiDDoS on page 16
- FortiMail on page 16
- FortiManager on page 17
- FortiProxy on page 17
- FortiSandbox on page 17
- FortiSwitch ATCA on page 17
- FortiWeb on page 17
- Virtualization on page 18

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

Web browsers

This section lists FortiAnalyzer version 6.4.13 product integration and support for web browsers:

- Microsoft Edge 114
- Mozilla Firefox version 88

- Google Chrome version 114

FortiOS/FortiOS Carrier

This section lists FortiAnalyzer version 6.4.13 product integration and support for FortiOS/FortiOS Carrier:

- 6.4.0 to 6.4.14
- 6.2.0 to 6.2.15
- 6.0.0 to 6.0.17

FortiADC

This section lists FortiAnalyzer version 6.4.13 product integration and support for FortiADC:

- 6.2.1
- 6.0.2
- 5.4.5

FortiAnalyzer

This section lists FortiAnalyzer version 6.4.13 product integration and support for FortiAnalyzer:

- 6.4.0 to 6.4.9
- 6.2.0 to 6.2.10
- 6.0.0 and later
- 5.6.0 and later
- 5.4.0 and later

FortiAuthenticator

This section lists FortiAnalyzer version 6.4.13 product integration and support for FortiAuthenticator:

- 6.0 to 6.4
- 5.0 to 5.5
- 4.3

FortiCache

This section lists FortiAnalyzer version 6.4.13 product integration and support for FortiCache:

- 4.2.9
- 4.1.6
- 4.0.4

FortiClient

This section lists FortiAnalyzer version 6.4.13 product integration and support for FortiClient:

- 6.4.0 and later
- 6.2.1 and later
- 6.0.0 and later
- 5.6.0 and later
- 5.4.0 and later

When using FortiClient with FortiAnalyzer, it is recommended to upgrade both to their latest versions. The versions between the two products should match. For example, if using FortiAnalyzer 6.4.9, use FortiClient 6.4.9.

FortiDDoS

This section lists FortiAnalyzer version 6.4.13 product integration and support for FortiDDoS:

- 5.4.2
- 5.3.1
- 5.2.0
- 5.1.0
- 5.0.0
- 4.7.0
- 4.6.0
- 4.5.0
- 4.4.2
- 4.3.2
- 4.2.3

FortiDeceptor

This section lists FortiAnalyzer version 6.4.13 product integration and support for FortiDeceptor:

- 3.3.0 and later
- 3.2.0 and later
- 3.1.1

FortiMail

This section lists FortiAnalyzer version 6.4.13 product integration and support for FortiMail:

- 7.0.0 and later
- 6.4.0 and later
- 6.2.0 and later
- 6.0.10 and later
- 5.4.12
- 5.3.13

FortiManager

This section lists FortiAnalyzer version 6.4.13 product integration and support for FortiManager:

- 6.4.0 and later
- 6.2.0 and later
- 6.0.0 and later
- 5.6.0 and later
- 5.4.0 and later

FortiNAC

This section lists FortiAnalyzer version 6.4.13 product integration and support for FortiNAC:

- 8.7.6
- 8.6.5
- 8.5.4

FortiProxy

This section lists FortiAnalyzer version 6.4.13 product integration and support for FortiProxy:

- 1.0 to 1.2

FortiSandbox

This section lists FortiAnalyzer version 6.4.13 product integration and support for FortiSandbox:

- 4.0.2
- 3.2.2
- 3.1.4
- 3.0.6
- 2.5.2
- 2.4.1
- 2.3.3
- 2.2.2

FortiSwitch ATCA

This section lists FortiAnalyzer version 6.4.13 product integration and support for FortiSwitch ATCA:

- 5.0.0 and later

FortiWeb

This section lists FortiAnalyzer version 6.4.13 product integration and support for FortiWeb:

- 6.3.0 to 6.3.17
- 6.2.0 to 6.2.7
- 6.1.0 to 6.1.2
- 6.0.0 to 6.0.7
- 5.9.0 to 5.9.1
- 5.8.0 to 5.8.6
- 5.7.0 to 5.7.1
- 5.6.0 to 5.6.1
- 5.5.0 to 5.5.6
- 5.4.1 to 5.4.1

Virtualization

This section lists FortiAnalyzer version 6.4.13 product integration and support for virtualization:

- Amazon Web Services (AWS)
- Citrix XenServer 6.0+ and Open Source Xen 4.1+
- Linux KVM
- Microsoft Azure
- Microsoft Hyper-V 2008 R2, 2012, 2012 R2, 2016, and 2019
- VMware ESX/ESXi 6.5 and later
- Nutanix AHV (AOS 5.10.5)
- Google Cloud (GCP)
- Oracle Cloud Infrastructure (OCI)
- Alibaba Cloud (AliCloud)

Feature support

The following table lists FortiAnalyzer feature support for log devices.

Platform	Log View	FortiView	Event Management	Reports
FortiGate	✓	✓	✓	✓
FortiCarrier	✓	✓	✓	✓
FortiADC	✓		✓	
FortiAnalyzer	✓		✓	
FortiAuthenticator	✓			
FortiCache	✓		✓	✓

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

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 FortiAnalyzer, modifying the text to a

different language, saving the file as a different language name, and then importing the file into FortiAnalyzer. 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 6.4.13. 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 21
- FortiGate special branch models on page 23
- FortiCarrier models on page 27
- FortiCarrier special branch models on page 28
- FortiADC models on page 30
- FortiAnalyzer models on page 30
- FortiAuthenticator models on page 31
- FortiCache models on page 32
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- FortiMail models on page 32
- FortiNAC models on page 33
- FortiProxy models on page 34
- FortiSandbox models on page 34
- FortiSwitch ATCA models on page 34
- FortiWeb models on page 35

FortiGate models

Model	Firmware Version
FortiGate: FortiGate-40F, FortiGate-40F-3G4G, FortiGate-41F, FortiGate-41F-3G4G, FortiGate-60E, FortiGate-60E-DSL, FortiGate-60E-DSLJ, FortiGate-60E-POE, FortiGate-60F, FortiGate-61E, FortiGate-61F, FortiGate-80E, FortiGate-80E-POE, FortiGate-80F, FortiGate-80F-Bypass, FortiGate-81E, FortiGate-81E-POE, FortiGate-81F, FortiGate-90E, FortiGate-91E, FortiGate-100D, FortiGate-100E, FortiGate-100EF, FortiGate-100F, FortiGate-101E, FortiGate-101F, FortiGate-140E, FortiGate-140E-POE, FortiGate-200E, FortiGate-200F, FortiGate-201E, FortiGate-201F, FortiGate-300D, FortiGate-300E, FortiGate-301E, FortiGate-400D, FortiGate-400E, FortiGate-401E, FortiGate-500D, FortiGate-500E, FortiGate-501E, FortiGate-600D, FortiGate-600E, FortiGate-601E, FortiGate-800D, FortiGate-900D, FortiGate-1000D, FortiGate-1100E, FortiGate-1101E, FortiGate-1100E, FortiGate-1101E, FortiGate-1200D, FortiGate-1500D, FortiGate-1500DT,FortiGate-1800F, FortiGate-1801F, FortiGate-2000E, FortiGate-2200E, FortiGate-2201E, FortiGate-2500E, FortiGate-2600F, FortiGate-2601F, FortiGate-3000D, FortiGate-3100D, FortiGate-3200D, FortiGate-3301E, FortiGate-3300E, FortiGate-3301E, FortiGate-3400E, FortiGate-3401E, FortiGate-3600E, FortiGate-3601E, FortiGate-3700D, FortiGate-3800D, FortiGate-3810D, FortiGate-3815D, FortiGate-3960E, FortiGate-3980E, FortiGate-4200F, FortiGate-4201F, FortiGate-4400F, FortiGate-4401F **FortiGate 5000 Series:** FortiGate-5001D, FortiGate-5001E, FortiGate-5001E1 **FortiGate DC:** FortiGate-800D-DC, FortiGate-1500D-DC, FortiGate-2600F-DC, FortiGate-2601F-DC, FortiGate-3000D-DC, FortiGate-3100D-DC, FortiGate-3200D-DC, FortiGate-3400E-DC, FortiGate-3401E-DC, FortiGate-3700D-DC, FortiGate-3800D-DC, FortiGate-3810D-DC, FortiGate-3815D-DC, FortiGate-3960E-DC, FortiGate-3980E-DC, FortiGate-4200F-DC, FortiGate-4201F-DC, FortiGate-4400F-DC, FortiGate-4401F-DC **FortiGate Hardware Low Encryption:** FortiGate-100D-LENC **FortiWiFi:** FortiWiFi-40F, FortiWiFi-40F-3G4G, FortiWiFi-41F, FortiWiFi-41F-3G4G, FortiWiFi-60E, FortiWiFi-60E-DSL, FortiWiFi-60E-DSLJ, FortiWiFi-61E, FortiWiFi-60F, FortiWiFi-61F **FortiGate VM:** FortiGate-VM64, FortiGate-VM64-ALI, FortiGate-VM64-AWS, FortiGate-VM64-AZURE, FortiGate-VM64-AZUREONDEMAND, FortiGate-VM64-GCP, FortiGate-VM64-GCPONDEMAND, FortiGate-VM64-HV,FortiGate-VM64-KVM, FortiGate-VM64-OPC, FortiGate-VM64-Xen, FortiGate-VMX-Service-Manager, FortiGate-VM64-IBM **FortiOS:** FortiOS-VM64, FortiOS-VM64-HV, FortiOS-VM64-KVM, FortiOS-VM64-Xen **FortiGateRugged:** FortiGateRugged-60F, FortiGateRugged-60F-3G4G	6.4

Model	Firmware Version
FortiGate: FortiGate-30E, FortiGate-30E-3G4G-INTL, FortiGate-30E-3G4G-NAM, FortiGate-40F, FortiGate-40F-3G4G, FortiGate-41F, FortiGate-41F-3G4G, FortiGate-50E, FortiGate-51E, FortiGate-52E, FortiGate-60E, FortiGate-60E-DSL, FortiGate-60E-POE, FortiGate-60F, FortiGate-61E, FortiGate-61F, FortiGate-80D, FortiGate-80E, FortiGate-80E-POE, FortiGate-80F, FortiGate-80F-BypassFortiGate-81E, FortiGate-81E-POE, FortiGate-81F, FortiGate-90E, FortiGate-91E, FortiGate-92D, FortiGate-100D, FortiGate-100E, FortiGate-100EF, FortiGate-100F, FortiGate-101E, FortiGate-101F, FortiGate-140D, FortiGate-140D-POE, FortiGate-140E, FortiGate-140E-POE, FortiGate-200E, FortiGate-201E, FortiGate-300D, FortiGate-300E, FortiGate-301E, FortiGate-400D, FortiGate-400E, FortiGate-401E, FortiGate-500D, FortiGate-500E, FortiGate-501E, FortiGate-600D, FortiGate-600E, FortiGate-601E, FortiGate-800D, FortiGate-900D, FortiGate-1000D, FortiGate-1100E, FortiGate-1101E, FortiGate-1200D, FortiGate-1500D, FortiGate-1500DT, FortiGate-1800F, FortiGate-1801F, FortiGate-2000E, FortiGate-2200E, FortiGate-2201E, FortiGate-2500E, FortiGate-3000D, FortiGate-3100D, FortiGate-3200D, FortiGate-3300E, FortiGate-3301E, FortiGate-3400E-DC, FortiGate-3401E-DC, FortiGate-3600E, FortiGate-3601E, FortiGate-3700D, FortiGate-3800D, FortiGate-3810D, FortiGate-3815D, FortiGate-3301E, FortiGate-3960E, FortiGate-3980E, FortiGate-4200F, FortiGate-4201F, FortiGate-4400F, FortiGate-4401F **FortiGate 5000 Series:** FortiGate-5001D, FortiGate-5001E, FortiGate-5001E1 **FortiGate DC:** FortiGate-80C-DC, FortiGate-600C-DC, RortiGate-800C-DC, FortiGate-800D-DC, FortiGate-1000C-DC, FortiGate-1500D-DC, FortiGate-3000D-DC, FortiGate-3100D-DC, FortiGate-3200D-DC, FortiGate-3240C-DC, FortiGate-3700D-DC, FortiGate-3800D-DC, FortiGate-3810D-DC, FortiGate-3815D-DC, FortiGate-3960E-DC, FortiGate-3980E-DC **FortiGate Hardware Low Encryption:** FortiGate-80C-LENC, FortiGate-600C-LENC, FortiGate-1000C-LENC **FortiWiFi:** FortiWiFi-30D, FortiWiFi-30D-POE, FortiWiFi-30E, FortiWiFi-30E-3G4G-INTL, FortiWiFi-30E-3G4G-NAM, FortiWiFi-40F, FortiWiFi-40F-3G4G, FortiWiFi-41F, FortiWiFi-41F-3G4G, FortiWiFi-50E, FortiWiFi-50E-2R, FortiWiFi-51E, FortiWiFi-60E, FortiWiFi-60E-DSL, FortiWiFi-60E-DSLJ, FortiWiFi-61E, FortiWiFi-60F, FortiWiFi-61F, FortiWiFi-80CM, FortiWiFi-81CM **FortiGate-VM:** FortiGate-VM64, FortiGate-VM64-ALI, FortiGate-VM64-ALIONDEMAND, FortiGate-VM64-AWS, FortiGate-VM64-AWSONDEMAND, FortiGate-VM64-AZUREONDEMAND, FortiGate-VM64-Azure, FortiGate-VM64-GCP, FortiGate-VM64-GCPONDEMAND, FortiGate-VM64-HV, FortiGate-VM64-KVM, FortiGate-VM64-OPC, FortiGate-VM64-Xen, FortiGate-VMX-Service-Manager **FortiGate Rugged:** FortiGateRugged-30D, FortiGateRugged-30D-ADSL-A, FortiGateRugged-35D, FortiGateRugged-60F, FortiGateRugged-60F-3G4G **FortiOS:** FortiOS-VM64, FortiOS-VM64-HV, FortiOS-VM64-KVM, FortiOS-VM64-Xen	6.2

Model	Firmware Version
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-DSLJ, FG-60E-POE, FortiGate-60F, FortiGate-61F, 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, FG-200D, FG-200D-POE, FG-200E, FG-201E, FG-240D, FG-240-POE, FG-280D-POE, FG300D, FG-300E, FG-301E, FG-400D, FG-400E, FG-401E, 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, FortiGate-3600E, FortiGate-3601E, FG-3700D, FG-3800D, FG-3810D, FG-3815D, FG-3960E, FG-3980E **FortiGate 5000 Series:** FG-5001D, FG-5001E, FG-5001E1 **FortiGate 7000 Series:** FortiGate-7000F, FortiGate-7121F **FortiGate DC:** FG1500D-DC, FG-3000D-DC, FG-3100D-DC, FG-3200D-DC, FG-3700D-DC, FG-3800D-DC, FG-3810D-DC, FG-3815D-DC **FortiGate Hardware Low Encryption:** FG-100D-LENC, FG-600C-LENC **Note:** All license-based LENC is supported based on the FortiGate support list. **FortiWiFi:** FWF-30D, FWF-30E, FWF-30E-3G4G-INTL, FWF-30E-3G4G-NAM, FWF-40F, FWF-40F-3G4G, FWF-41F, FWF-41F-3G4GFWF-50E, FWF-50E-2R, FWF-51E, FWF-60D, FWF-60D-POE, FWF-60E, FWF-61E, FortiWiFi-60F, FWF-90D, FWF-90D-POE, FWF-92D **FortiGate VM:** FG-VM64, FG-VM64-AWS, FG-VM64-AWSONDEMAND, FG-VM64-GCP,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 **FortiGate Rugged:** FGR-30D, FGR-35D, FGR-60D, FGR-90D	6.0

FortiGate special branch models

The following FortiGate models are released on special branches of FortiOS. FortiAnalyzer version 6.4.13 supports these models on the identified FortiOS version and build number.

For information about supported FortiGate models released with FortiOS firmware, see FortiGate models on page 21.

FortiOS 6.4

FortiGate Model	FortiOS Version	FortiOS Build
FortiGate-400F FortiGate-401F	6.4.13	5455
FortiGate-600F FortiGate-601F	6.4.13	5455
FortiGate-3500F	6.4.6	5886
FortiGate-3501F	6.4.6	6132

FortiGate Model	FortiOS Version	FortiOS Build
FortiGate-6000F FortiGate-6300F FortiGate-6300F-DC FortiGate-6301F FortiGate-6301F-DC FortiGate-6500F FortiGate-6500F-DC FortiGate-6501F FortiGate-6501F-DC	6.4.13	1926
FortiGate-7000E FortiGate-7030E FortiGate-7040E FortiGate-7060E FortiGate-7060E-8-DC	6.4.13	1926
FortiGate-7000F FortiGate-7121F FortiGate-7121F-2 FortiGate-7121F-2-DC FortiGate-7121F-DC	6.4.13	1926
FortiWiFi-80F-2R-3G4G-DSL	6.4.7	5003

FortiOS 6.2

FortiGate Model	FortiOS Version	FortiOS Build
FortiGate-80D	6.2.13	5238
FortiGate-200F FortiGate-201F	6.2.13	7249
FortiGate-1800F FortiGate-1800F-DC FortiGate-1801F FortiGate-1801F-DC	6.2.9	7197
FortiGate-2600F FortiGate-2600F-DC FortiGate-2601F FortiGate-2601F-DC	6.2.9	7197
FortiGate-4200F FortiGate-4200F-DC	6.2.9	7197

FortiGate Model	FortiOS Version	FortiOS Build
FortiGate-4201F FortiGate-4201F-DC		
FortiGate-4400F FortiGate-4400F-DC FortiGate-4401F FortiGate-4401F-DC	6.2.9	7197
FortiGate-6000F FortiGate-6300F FortiGate-6300F-DC FortiGate-6301F FortiGate-6301F-DC FortiGate-6500F FortiGate-6500F-DC FortiGate-6501F FortiGate-6501F-DC	6.2.13	1271
FortiGate-7000E FortiGate-7030E FortiGate-7040E FortiGate-7060E FortiGate-7060E-8-DC	6.2.13	1271
FortiGate-7000F FortiGate-7121F FortiGate-7121F-2 FortiGate-7121F-2-DC FortiGate-7121F-DC	6.2.13	1271
FortiWiFi-80F-2R-3G4G-DSL FortiWiFi-81F-2R-3G4G-DSL	6.2.6	7219
FortiWiFi-81F-2R-3G4G-POE	6.2.6	7099

FortiOS 6.0

FortiGate Model	FortiOS Version	FortiOS Build
FortiGate-30E-3G4G-GBL	6.0.13	5486
FortiGate-40F FortiGate-40F-3G4G	6.0.13	6887
FortiGate-41F	6.0.6	6445

FortiGate Model	FortiOS Version	FortiOS Build
FortiGate-41F-3G4G	6.0.6	6674
FortiGate-60F FortiGate-61F	6.0.13	6890
FortiGate-100F FortiGate-101F	6.0.13	6890
FortiGate-1100E FortiGate-1100E-DC	6.0.13	6886
FortiGate-1800F FortiGate-1800F-DC FortiGate-1801F FortiGate-1801F-DC	6.0.13	6889
FortiGate-2200E FortiGate-2201E FortiGate-2201E-ACDC	6.0.13	6888
FortiGate-3300E FortiGate-3301E	6.0.13	6888
FortiGate-6000F FortiGate-6300F FortiGate-6300F-DC FortiGate-6301F FortiGate-6301F-DC FortiGate-6500F FortiGate-6500F-DC FortiGate-6501F FortiGate-6501F-DC	6.0.16	0417
FortiGate-7000E FortiGate-7030E FortiGate-7040E FortiGate-7060E FortiGate-7060E-8-DC	6.0.16	0417
FortiGate-VM64-AZUREONDEMAND FortiGate-VM64-Azure	6.0.13	5485
FortiGate-VM64-RAXONDEMAND	6.0.13	9418
FortiWiFi-40F FortiWiFi-40F-3G4G	6.0.13	6887
FortiWiFi-41F	6.0.6	6674

FortiGate Model	FortiOS Version	FortiOS Build
FortiWiFi-41F-3G4G	6.0.6	6445
FortiWiFi-61F	6.0.13	6890

FortiCarrier models

Model	Firmware Version
FortiCarrier: FortiCarrier-3000D, FortiCarrier-3100D, FortiCarrier-3200D, FortiCarrier-3400E, FortiCarrier-3600E, FortiCarrier-3601E, FortiCarrier-3700D, FortiCarrier-3800D, FortiCarrier-3810D, FortiCarrier-3815D, FortiCarrier-3960E, FortiCarrier-3980E, FortiCarrier-5001D, FortiCarrier-5001E, FortiCarrier-5001E1 **FortiCarrier 6000 Series:** FortiCarrier-6000F, FortiCarrier-6300F, FortiCarrier-6301F, FortiCarrier-6500F, FortiCarrier-6501F, FortiCarrier-6300F-DC, FortiCarrier-6301F-DC, FortiCarrier-6500F-DC, FortiCarrier-6501F-DC **FortiCarrier 7000 Series:** FortiCarrier-7000E, FortiCarrier-7030E, FortiCarrier-7040E, FortiCarrier-7060E, FortiCarrier-7060E-8-DC, FortiCarrier-7000F, FortiCarrier-7121F **FortiCarrier-DC:** FortiCarrier-3000D-DC, FortiCarrier-3100D-DC, FortiCarrier-3200D-DC, FortiCarrier-3400E, FortiCarrier-3401E, FortiCarrier-3400E-DC, FortiCarrier-3401E-DC, FortiCarrier-3700D-DC, FortiCarrier-3800D-DC, FortiCarrier-3810D-DC, FortiCarrier-3815D-DC, FortiCarrier-3960E-DC, FortiCarrier-3980E-DC **FortiCarrier-VM:** FortiCarrier-VM64, FortiCarrier-VM64-ALI, FortiCarrier-VM64-AWS, FortiCarrier-VM64-Azure, FortiCarrier-VM64-GCP, FortiCarrier-VM64-HV, FortiCarrier-VM64-KVM, FortiCarrier-VM64-OPC, FortiCarrier-VM64-Xen	6.4
FortiCarrier: FortiCarrier-3000D, FortiCarrier-3100D, FortiCarrier-3200D, FortiCarrier-3700D, FortiCarrier-3800D, FortiCarrier-3810D, FortiCarrier-3815D, FortiCarrier-3960E, FortiCarrier-5001D, FortiCarrier-5001E, FortiCarrier-5001E1 **FortiCarrier 6000 Series:** FortiCarrier-6000F, FortiCarrier-6300F, FortiCarrier-6301F, FortiCarrier-6500F, FortiCarrier-6501F, FortiCarrier-6300F-DC, FortiCarrier-6301F-DC, FortiCarrier-6500F-DC, FortiCarrier-6501F-DC **FortiCarrier 7000 Series:** FortiCarrier-7000E, FortiCarrier-7030E, FortiCarrier-7040E, FortiCarrier-7060E, FortiCarrier-7060E-8-DC, FortiCarrier-7000F, FortiCarrier-7121F **FortiCarrier-DC:** FortiCarrier-3000D-DC, FortiCarrier-3100D-DC, FortiCarrier-3200D-DC, FortiCarrier-3400E, FortiCarrier-3401E, FortiCarrier-3400E-DC, FortiCarrier-3401E-DC, FortiCarrier-3700D-DC, FortiCarrier-3800D-DC, FortiCarrier-3810D-DC, FortiCarrier-3815D-DC, FortiCarrier-3960E-DC **FortiCarrier-VM:** FortiCarrier-VM64, FortiCarrier-VM64-ALI, FortiCarrier-VM64-AWS, FortiCarrier-VM64-Azure, FortiCarrier-VM64-GCP, FortiCarrier-VM64-HV, FortiCarrier-VM64-KVM, FortiCarrier-VM64-OPC, FortiCarrier-VM64-Xen	6.2
FortiCarrier: FGT-3000D, FGT-3100D, FGT-3200D, FGT-3700D, FGT-3800D, FGT-3810D, FGT-3960E, FGT-3980E, FGT-5001D, FGT-5001E **FortiCarrier 7000 Series:** FortiCarrier-7000F, FortiCarrier-7121F **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	6.0

Model	Firmware Version
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	

FortiCarrier special branch models

The following FortiCarrier models are released on special branches of FortiOS Carrier. FortiAnalyzer version 6.4.13 supports these models on the identified FortiOS Carrier version and build number.

For information about supported FortiCarrier models released with FortiOS Carrier firmware, see FortiCarrier models on page 27.

FortiCarrier 6.4

FortiCarrier Model	FortiCarrier Version	FortiCarrier Build
FortiCarrier-3500F	6.4.6	5886
FortiCarrier-3501F	6.4.6	6132
FortiCarrier-6000F FortiCarrier-6300F FortiCarrier-6300F-DC FortiCarrier-6301F FortiCarrier-6301F-DC FortiCarrier-6500F FortiCarrier-6500F-DC FortiCarrier-6501F FortiCarrier-6501F-DC	6.4.13	1926
FortiCarrier-7000E FortiCarrier-7030E FortiCarrier-7040E FortiCarrier-7060E FortiCarrier-7060E-8-DC	6.4.13	1926
FortiCarrier-7000F FortiCarrier-7121F FortiCarrier-7121F-2 FortiCarrier-7121F-2-DC FortiCarrier-7121F-DC	6.4.13	1926

FortiCarrier 6.2

FortiCarrier Model	FortiCarrier Version	FortiCarrier Build
FortiCarrier-4200F FortiCarrier-4200F-DC FortiCarrier-4201F FortiCarrier-4201F-DC	6.2.9	7197
FortiCarrier-4400F FortiCarrier-4400F-DC FortiCarrier-4401F FortiCarrier-4401F-DC	6.2.9	7197
FortiCarrier-6000F FortiCarrier-6300F FortiCarrier-6300F-DC FortiCarrier-6301F FortiCarrier-6301F-DC FortiCarrier-6500F FortiCarrier-6500F-DC FortiCarrier-6501F FortiCarrier-6501F-DC	6.2.13	1271
FortiCarrier-7000E FortiCarrier-7030E FortiCarrier-7040E FortiCarrier-7060E FortiCarrier-7060E-8-DC	6.2.13	1271
FortiCarrier-7000F FortiCarrier-7121F FortiCarrier-7121F-2 FortiCarrier-7121F-2-DC FortiCarrier-7121F-DC	6.2.13	1271

FortiCarrier 6.0

FortiCarrier Model	FortiCarrier Version	FortiCarrier Build
FortiCarrier-6000F FortiCarrier-6300F FortiCarrier-6300F-DC FortiCarrier-6301F FortiCarrier-6301F-DC	6.0.16	0417

FortiCarrier Model	FortiCarrier Version	FortiCarrier Build
FortiCarrier-6500F FortiCarrier-6500F-DC FortiCarrier-6501F FortiCarrier-6501F-DC		
FortiCarrier-7000E FortiCarrier-7030E FortiCarrier-7040E FortiCarrier-7060E FortiCarrier-7060E-8-DC	6.0.16	0417
FortiCarrier-VM64-Azure	6.0.13	5485

FortiADC models

Model	Firmware Version
FortiADC-100F, FortiADC-200D, FortiADC-200F, FortiADC-300D, FortiADC-300F, FortiADC-400D, FortiADC-400F, FortiADC-700D, FortiADC-1000F, FortiADC-1500D, FortiADC-2000D, FortiADC-2000F, FortiADC-4000D, FortiADC-4000F, FortiADC-5000F, FortiADC-VM	6.0
FortiADC-100F, FortiADC-200D, FortiADC-200F, FortiADC-300D, FortiADC-300F, FortiADC-400D, FortiADC-400F, FortiADC-700D, FortiADC-1000F, FortiADC-1500D, FortiADC-2000D, FortiADC-2000F, FortiADC-4000D, FortiADC-4000F, FortiADC-5000F, FortiADC-VM	5.4

FortiAnalyzer models

Model	Firmware Version
FortiAnalyzer: FortiAnalyzer-150G, FortiAnalyzer-200F, FortiAnalyzer-300F, FortiAnalyzer-300G, FortiAnalyzer-400E, FortiAnalyzer-800F, FortiAnalyzer-800G, FortiAnalyzer-1000E, FortiAnalyzer-1000F, FortiAnalyzer-2000E, FortiAnalyzer-3000E, FortiAnalyzer-3000F, FortiAnalyzer-3500E, FortiAnalyzer-3500F, FortiAnalyzer-3500G, FortiAnalyzer-3700F, FortiAnalyzer-3900E **FortiAnalyzer VM:** FortiAnalyzer-VM64, FortiAnalyzer-VM64-ALI, FortiAnalyzer-VM64-ALI-OnDemand, FortiAnalyzer-VM64-AWS, FortiAnalyzer-VM64-AWSOnDemand, FortiAnalyzer-VM64-Azure, FortiAnalyzer-VM64-Azure-OnDemand, FortiAnalyzer-VM64-GCP, FortiAnalyzer-VM64-GCP-OnDemand,FortiAnalyzer-VM64-HV, FortiAnalyzer-VM64-KVM, FortiAnalyzer-VM64-KVM-CLOUD, FortiAnalyzer-VM64-OPC, FortiAnalyzer-VM64-Xen	6.4

Model	Firmware Version
FortiAnalyzer: FAZ-200F, FAZ-300F, FAZ-400E, FAZ-800F, FAZ-1000E, FAZ-2000E, FAZ-3000E, FAZ-3000F, FAZ-3500E, FAZ-3500F, FAZ-3700F and FAZ-3900E. **FortiAnalyzer VM:** FAZ-VM64, FAZ-VM64-Ali, 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).	6.2
FortiAnalyzer: FAZ-200D, FAZ-300D, FAZ-400E, FAZ-1000D, FAZ-1000E, FAZ-2000B, FAZ-3000D, FAZ-3000E, FAZ-3000F, FAZ-3500E, FAZ-3500F, and FAZ-3900E. **FortiAnalyzer VM:** FAZ-VM64, FAZ-VM64-AWS, FMG-VM64-Azure, FAZ-VM64-HV, FAZ-VM64-KVM, and FAZ-VM64-XEN (Citrix XenServer and Open Source Xen).	6.0
FortiAnalyzer: FAZ-200D, FAZ-300D, FAZ-400E, FAZ-1000D, FAZ-1000E, FAZ-2000B, FAZ-3000D, FAZ-3000E, FAZ-3000F, FAZ-3500E, FAZ-3500F, and FAZ-3900E. **FortiAnalyzer VM:** FAZ-VM64, FAZ-VM64-AWS, FMG-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, FMG-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-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-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

FortiAuthenticator models

Model	Firmware Version
FortiAuthenticator: FAC-200D, FAC-200E, FAC-400C, FAC-400E, FAC-800F, FAC-1000C, FAC-1000D, FAC-2000E, FAC-3000D, FAC-3000E **FortiAuthenticator VM:** FAC-VM	6.0 to 6.3
FortiAuthenticator: FAC-200D, FAC-200E, FAC-400C, FAC-400E, FAC-800F, FAC-1000C, FAC-1000D, FAC-2000E, FAC-3000B, FAC-3000D, FAC-3000E	5.0 to 5.5

Model	Firmware Version
FortiAuthenticator VM: FAC-VM	
FortiAuthenticator: FAC-200D, FAC-200E, FAC-400C, FAC-400E, FAC-800F, FAC-1000C, FAC-1000D, FAC-3000B, FAC-3000D, FAC-3000E **FortiAuthenticator VM:** FAC-VM	4.3

FortiCache models

Model	Firmware Version
FortiCache: FCH-400C, FCH-400E, FCH-1000C, FCH-1000D, FCH-3000C, FCH-3000D, FCH-3000E, FCH-3900E **FortiCache VM:** FCH-VM64, FCH-KVM	4.0, 4.1, 4.2

FortiDDoS models

Model	Firmware Version
FortiDDoS: FortiDDoS-200B, FortiDDoS-400B, FortiDDoS-600B, FortiDDoS-800B, FortiDDoS-900B, FortiDDoS-1000B, FortiDDoS-1200B, FortiDDoS-1500E, FortiDDoS-2000B, FortiDDoS-2000E	5.2, 5.3
FortiDDoS: FI-200B, FI-400B, FI-600B, FI-800B, FI-900B, FI-1000B, FI-1200B, FI-1500B, FI-2000B, FI-2000E	5.1
FortiDDoS: FI-1500E, FI-2000E	5.0
FortiDDoS: FI-200B, FI400B, FI-600B, FI-800B, FI-900B, FI-1000B, FI-1200B, FI-2000B, FI-3000B	4.0, 4.1, 4.2, 4.3, 4.4, 4.5, 4.7

FortiDeceptor models

Model	Firmware Version
FortiDeceptor: FDC-1000F, FDC-3000D **FortiDeceptor VM**: FDC-VM	3.1 to 3.3

FortiMail models

Model	Firmware Version
FortiMail: FE-60D, FE-200D, FE-200E, FE-400E, FE-1000D, FE-2000E, FE-3000D, FE-3000E, FE-3200E, FE-VM, FML-60D, FML-200D, FML-1000D, FML-3000D, FML-200E, FML-400E, FML-2000E, FML-3000E, FML-3200E, FML-200F, FML-400F, FML-900F	6.4

Model	Firmware Version
FortiMail VM: FE-VM64, FE-VM64-HV, FE-VM64-XEN	
FortiMail: FE-60D, FE-200D, FE-200E, FE-400E, FE-1000D, FE-2000E, FE-3000D, FE-3000E, FE-3200E, FE-VM, FML-60D, FML-200D, FML-1000D, FML-3000D, FML-200E, FML-400E, FML-2000E, FML-3000E, FML-3200E, FML-200F, FML-400F, FML-900F **FortiMail VM:** FE-VM64, FE-VM64-HV, FE-VM64-XEN	6.2
FortiMail: FE-60D, FE-200D, FE-200E, FE-400E, FE-1000D, FE-2000E, FE-3000D, FE-3000E, FE-3200E, FE-VM, FML-200F, FML-400F, FML-900F	6.0
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
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
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
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
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

FortiNAC models

Model	Firmware Version
FortiNAC-500, FortiNAC-600, FortiNAC-700, FortiNAC-C-1000C, FortiNAC-C-2000C, FortiNAC-C-VM, FortiNAC-CA-VM, FortiNAC-M-VM, FortiNAC-Manager-550	8.7
FortiNAC-500, FortiNAC-600, FortiNAC-700, FortiNAC-C-1000C, FortiNAC-C-2000C, FortiNAC-C-VM, FortiNAC-CA-VM, FortiNAC-M-VM, FortiNAC-Manager-550	8.6
FortiNAC-500, FortiNAC-600, FortiNAC-700, FortiNAC-C-1000C, FortiNAC-C-2000C, FortiNAC-C-VM, FortiNAC-CA-VM, FortiNAC-M-VM, FortiNAC-Manager-550	8.5

FortiProxy models

Model	Firmware Version
FortiProxy: FPX-400E, FPX-2000E, FPX-4000E **FortiProxy VM:** FPX-KVM, FPX-VM64	1.0/1.1

FortiSandbox models

Model	Firmware Version
FortiSandbox: FSA-500F, FSA-1000F, FSA-2000E, FSA-3000E, FSA-3000F **FortiSandbox-VM:** FSA-AWS, FSA-VM	4.0
FortiSandbox: FSA-500F, FSA-1000D, FSA-1000F, FSA-2000E, FSA-3000D, FSA-3000E, FSA-3500D **FortiSandbox-VM:** FSA-AWS, FSA-VM	3.2
FortiSandbox: FSA-500F, FSA-1000D, FSA-1000F, FSA-2000E, FSA-3000D, FSA-3000E, FSA-3500D **FortiSandbox-VM:** FSA-AWS, FSA-VM	3.1
FortiSandbox: FSA-500F, FSA-1000D, FSA-1000F, FSA-2000E, FSA-3000D, FSA-3000E, FSA-3500D **FortiSandbox VM:** FSA-AWS, FSA-VM	3.0
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	2.2.0 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 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

Model	Firmware Version
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: FortiWeb-400C, FortiWeb-3000C, FortiWeb-4000C, FortiWeb-3000CFSX, FortiWeb-100D, FortiWeb-400D, FortiWeb-600D, FortiWeb-1000D, FortiWeb-3000D, FortiWeb-4000D, FortiWeb-3000DFSX, FortiWeb-1000E, FortiWeb-2000E, FortiWeb-3000E, FortiWeb-3010E, FortiWeb-4000E **FortiWeb VM:** FortiWeb-Azure, FortiWeb-Azure_OnDemand, FortiWeb-GCP, FortiWeb-GCP_OnDemand, FortiWeb-HyperV, FortiWeb-VM, FortiWeb-XENOpenSource, FortiWeb-XENServer	6.3
FortiWeb: FortiWeb-400C, FortiWeb-3000C, FortiWeb-3000CFSX, FortiWeb-100D, FortiWeb-400D, FortiWeb-600D, FortiWeb-1000D, FortiWeb-1000E, FortiWeb-2000E, FortiWeb-3000D, FortiWeb-3000DFSX, FortiWeb-3000E, FortiWeb-3010E, FortiWeb-4000C, FortiWeb-4000D, FortiWeb-4000E **FortiWeb VM:** FortiWeb-Azure, FortiWeb-Azure_OnDemand, FortiWeb-GCP, FortiWeb-GCP_OnDemand, FortiWeb-HyperV, FortiWeb-VM, FortiWeb-XENOpenSource, FortiWeb-XENServer	6.2
FortiWeb: FortiWeb-400C, FortiWeb-3000C, FortiWeb-4000C, FortiWeb-3000CFSX, FortiWeb-100D, FortiWeb-400D, FortiWeb-600D, FortiWeb-1000D, FortiWeb-3000D, FortiWeb-4000D, FortiWeb-3000DFSX, FortiWeb-1000E, FortiWeb-2000E, FortiWeb-3000E, FortiWeb-3010E, FortiWeb-4000E **FortiWeb VM:** FortiWeb-Azure, FortiWeb-Azure_OnDemand, FortiWeb-Docker, FortiWeb-GCP, FortiWeb-GCP_OnDemand, FortiWeb-HyperV, FortiWeb-VM, FortiWeb-XENOpenSource, FortiWeb-XenServer	6.1
FortiWeb: FWB-400C, FWB-100D, 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 **FortiWeb VM:** FWB-VM, FWB-HYPERV, FWB-XENOPEN, FWB-XENSERVER	6.0
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
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	5.8

Model	Firmware Version
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	
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
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
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-XENSERVER, FWB-HYPERV, FWB-KVM, FWB-AZURE	5.5
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-XENSERVER, FWB-HYPERV	5.4

Resolved Issues

The following issues have been fixed in FortiAnalyzer version 6.4.13. To inquire about a particular bug, please contact Customer Service & Support.

FortiView

Bug ID	Description
810109	The FortiAnalyzer sometimes fails to send the detected IOC logs to the FortiGate, resulting in the inability to trigger the compromised host automation scripts.

Reports

Bug ID	Description
876136	When running reports for all devices, "Unknown SN" on the detailed device list can be observed.
923023	The report displays cluster members in the list of devices, which has resulted in an increase in the total device count.

Common Vulnerabilities and Exposures

Visit https://fortiguard.com/psirt for more information.

Bug ID	CVE references
921579	FortiAnalyzer 6.4.13 is no longer vulnerable to the following CVE Reference: • CVE-2023-42788
922503	FortiAnalyzer 6.4.13 is no longer vulnerable to the following CVE Reference: • CVE-2023-41838
934151	FortiAnalyzer 6.4.13 is no longer vulnerable to the following CVE Reference: • CVE-2023-42791

Known Issues

The following issues have been identified in FortiAnalyzer version 6.4.13. To inquire about a particular bug or to report a bug, please contact Fortinet Customer Service & Support.

Others

Bug ID	Description
698361	SNMPv3 engineBoots may not properly be initialized.

Appendix A - Default and maximum number of ADOMs supported

This section identifies the supported number of ADOMs for FortiAnalyzer hardware models and virtual machines.

See also the FortiAnalyzer Data Sheet.

Hardware models

For ADOM subscription licenses, FortiAnalyzer enforces the ADOM limits.

For hardware models that do not support the ADOM subscription license, ADOM limits are recommended, but not enforced.

FortiAnalyzer supports a default number of ADOMs based on hardware model.

Some hardware models support an ADOM subscription license. When you purchase an ADOM subscription license, you increase the number of supported ADOMs. For example, you can purchase an ADOM subscription license for the FAZ-3000G series, which allows you to use up to a maximum of 1200 ADOMs.

Other hardware models do not support the ADOM subscription license. For hardware models that do not support the ADOM subscription license, the default and maximum number of ADOMs is the same.

FortiAnalyzer Platform	Default number of ADOMs	ADOM license support?	Maximum number of ADOMs
Desktop models	1	-	1
150G Series	3	-	3
200F/300F/400E	25	-	25
300G Series	25	-	25
800F/1000 Series	50	-	50
2000E Series	250	-	250
3000F Series	500	-	500
3000G Series	500	✓	1200
3500G Series	500	-	500
3700F Series and higher	1200	-	1200

Virtual Machines

For subscription licenses, FortiAnalyzer enforces the ADOM limits.
For perpetual licenses, ADOM limits are recommended, but not enforced.

FortiAnalyzer subscription license

Five (5) ADOMs are included with FortiAnalyzer VM subscription licenses. Licenses are non-stackable. Additional ADOMs can be purchased with an ADOM subscription license.

FortiAnalyzer perpetual license

Recommended maximum number of ADOMs supported:

FortiAnalyzer Platform	Default number of ADOMs
FAZ-VM-BASE (1 GB/Day)	5
1 GB/Day < License <= 5 GB/Day	10
5 GB/Day < License <= 25 GB/Day	25
25 GB/Day < License <= 100 GB/Day	50
100 GB/Day < License <= 500 GB/Day	250
500 GB/Day < License <= 1000 GB/Day	500
1000 GB/Day < License <= 5000 GB/Day	800
License > 5000 GB/Day	1200

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