



FortiOS - Release Notes

Version 6.2.10

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FortiOS 6.2.10 Release Notes

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Change Log

Date	Change Description
2021-11-04	Initial release.
2021-11-12	Updated <i>Known issues</i> . Added FG-200F and FG-201F to <i>Special branch supported models</i> .
2021-11-18	Updated <i>Known issues</i> .
2021-11-22	Updated <i>Known issues</i> .
2021-11-24	Updated <i>Product integration and support</i> .
2021-11-29	Updated <i>Known issues</i> .
2021-12-06	Updated <i>Resolved issues</i> .
2021-12-09	Updated <i>Known issues</i> .
2021-12-15	Updated <i>Resolved issues</i> and <i>Known issues</i> .
2022-01-04	Updated <i>Known issues</i> .
2022-01-12	Updated <i>Known issues</i> .
2022-01-18	Updated <i>Known issues</i> .
2022-01-24	Updated <i>Known issues</i> .
2022-02-01	Updated <i>Built-in IPS engine</i> .
2022-02-07	Updated <i>Known issues</i> .
2022-02-14	Updated <i>Known issues</i> , <i>Fortinet Security Fabric upgrade</i> , and <i>Product integration and support</i> .
2022-02-28	Updated <i>Known issues</i> .
2022-03-07	Updated <i>Known issues</i> .
2022-03-10	Updated <i>Known issues</i> .
2022-03-14	Updated <i>Known issues</i> .
2022-05-17	Updated <i>Resolved issues</i> , <i>Known issues</i> , and <i>Built-in AV engine</i> .
2022-05-30	Updated <i>Resolved issues</i> and <i>Known issues</i> .
2022-06-13	Updated <i>Known issues</i> .
2022-08-08	Updated <i>Known issues</i> , <i>Built-in AV engine</i> , and <i>Built-in IPS engine</i> .
2022-10-31	Updated <i>Known issues</i> and <i>Built-in IPS engine</i> .
2022-11-14	Updated <i>Known issues</i> and <i>Built-in AV engine</i> .

Date	Change Description
2023-01-27	Updated <i>Known issues</i> .
2023-02-08	Updated <i>Known issues</i> .
2023-03-10	Updated <i>Resolved issues</i> .
2023-05-03	Updated <i>Known issues</i> .
2023-05-16	Updated <i>Built-in AV engine</i> .
2023-05-23	Updated <i>SSL traffic over TLS 1.0 will not be checked and will be bypassed by default</i> .
2023-08-09	Updated <i>Resolved issues</i> .
2023-09-18	Updated <i>Resolved issues</i> .
2023-10-05	Updated <i>Known issues</i> .

Introduction and supported models

This guide provides release information for FortiOS 6.2.10 build 1263.

For FortiOS documentation, see the [Fortinet Document Library](#).

Supported models

FortiOS 6.2.10 supports the following models.

FortiGate	FG-30E, FG-30E_3G4G_INTL, FG-30E_3G4G_NAM, FG-30E-MG, FG-40F, FG-40F-3G4G, FG-50E, FG-51E, FG-52E, FG-60E, FG-60E-DSL, FG-60E-DSLJ, FG-60E-POE, FG-60F, FG-61E, FG-61F, FG-80E, FG-80E-POE, FG-80F, FG-80F-BP, FG-80F-POE, FG-81E, FG-81E-POE, FG-81F, FG-81F-POE, FG-90E, FG-91E, FG-92D, FG-100D, FG-100E, FG-100EF, FG-100F, FG-101E, FG-101F, FG-140D, FG-140D-POE, FG-140E, FG-140E-POE, FG-200E, FG-201E, FG-300D, FG-300E, FG-301E, FG-400D, FG-400E, FG-400E-BP, FG-401E, FG-500D, FG-500E, FG-501E, FG-600D, FG-600E, FG-601E, FG-800D, FG-900D, FG-1000D, FG-1100E, FG-1101E, FG-1200D, FG-1500D, FG-1500DT, FG-2000E, FG-2200E, FG-2201E, FG-2500E, FG-3000D, FG-3100D, FG-3200D, FG-3300E, FG-3301E, FG-3400E, FG-3401E, FG-3600E, FG-3601E, FG-3700D, FG-3800D, FG-3810D, FG-3815D, FG-5001D, FG-3960E, FG-3980E, FG-5001E, FG-5001E1
FortiWiFi	FWF-30E, FWF-30E_3G4G_INTL, FWF-30E_3G4G_NAM, FWF-40F, FWF-40F-3G4G, FWF-50E, FWF-50E-2R, FWF-51E, FWF-60E, FWF-60E-DSL, FWF-60E-DSLJ, FWF-60F, FWF-61E, FWF-61F, FWF-80F-2R, FWF-81F-2R, FWF-81F-2R-POE
FortiGate Rugged	FGR-30D, FGR-35D, FGR-60F, FGR-60F-3G4G, FGR-90D
FortiGate VM	FG-SVM, FG-VM64, FG-VM64-ALI, FG-VM64-ALIONDEMAND, FG-VM64-AWS, FG-VM64-AWSONDEMAND, FG-VM64-AZURE, FG-VM64-AZUREONDEMAND, FG-VM64-GCP, FG-VM64-GCPONDEMAND, FG-VM64-HV, FG-VM64-KVM, FG-VM64-OPC, FG-VM64-RAXONDEMAND, FG-VMX, FG-VM64-XEN
Pay-as-you-go images	FOS-VM64, FOS-VM64-HV, FOS-VM64-KVM, FOS-VM64-XEN

Special branch supported models

The following models are released on a special branch of FortiOS 6.2.10. To confirm that you are running the correct build, run the CLI command `get system status` and check that the `Branch point` field shows 1263.

FG-80D	is released on build 5168.
FG-200F	is released on build 7230.
FG-201F	is released on build 7230.

Special notices

- [New Fortinet cloud services](#)
- [FortiGuard Security Rating Service](#)
- [Using FortiManager as a FortiGuard server on page 10](#)
- [FortiGate hardware limitation](#)
- [CAPWAP traffic offloading](#)
- [FortiClient \(Mac OS X\) SSL VPN requirements](#)
- [Use of dedicated management interfaces \(mgmt1 and mgmt2\)](#)
- [NP4lite platforms](#)
- [Tags option removed from GUI](#)
- [L2TP over IPsec on certain mobile devices on page 11](#)
- [PCI passthrough ports on page 12](#)
- [SSL traffic over TLS 1.0 will not be checked and will be bypassed by default on page 12](#)
- [FortiGate 80D release on page 12](#)
- [FortiGate 100D transceiver information removed on page 13](#)

New Fortinet cloud services

FortiOS 6.2.0 introduced several new cloud-based services listed below. The new services require updates to FortiCare and Fortinet's FortiCloud single sign-on (SSO) service.

- [Overlay Controller VPN](#)
- [FortiGuard Cloud-Assist SD-WAN Interface Bandwidth Monitoring](#)
- [FortiManager Cloud](#)
- [FortiAnalyzer Cloud](#)

FortiGuard Security Rating Service

Not all FortiGate models can support running the FortiGuard Security Rating Service as a Fabric "root" device. The following FortiGate platforms can run the FortiGuard Security Rating Service when added to an existing Fortinet Security Fabric managed by a supported FortiGate model:

- FGR-30D
- FGR-35D
- FGT-30E
- FGT-30E-MI
- FGT-30E-MN
- FGT-50E
- FGT-51E

- FGT-52E
- FWF-30E
- FWF-30E-MI
- FWF-30E-MN
- FWF-50E
- FWF-50E-2R
- FWF-51E

Using FortiManager as a FortiGuard server

If you use FortiManager as a FortiGuard server, and you configure the FortiGate to use a secure connection to FortiManager, you must use HTTPS with port 8888. HTTPS with port 53 is not supported.

FortiGate hardware limitation

FortiOS 5.4.0 reported an issue with the FG-92D model in the *Special Notices > FG-92D High Availability in Interface Mode* section of the release notes. Those issues, which were related to the use of port 1 through 14, include:

- PPPoE failing, HA failing to form.
- IPv6 packets being dropped.
- FortiSwitch devices failing to be discovered.
- Spanning tree loops may result depending on the network topology.

FG-92D does not support STP. These issues have been improved in FortiOS 5.4.1, but with some side effects with the introduction of a new command, which is enabled by default:

```
config global
    set hw-switch-ether-filter <enable | disable>
```

When the command is enabled:

- ARP (0x0806), IPv4 (0x0800), and VLAN (0x8100) packets are allowed.
- BPDUs are dropped and therefore no STP loop results.
- PPPoE packets are dropped.
- IPv6 packets are dropped.
- FortiSwitch devices are not discovered.
- HA may fail to form depending the network topology.

When the command is disabled:

- All packet types are allowed, but depending on the network topology, an STP loop may result.

CAPWAP traffic offloading

CAPWAP traffic will not offload if the ingress and egress traffic ports are on different NP6 chips. It will only offload if both ingress and egress ports belong to the same NP6 chip. The following models are affected:

- FG-900D
- FG-1000D
- FG-2000E
- FG-2500E

FortiClient (Mac OS X) SSL VPN requirements

When using SSL VPN on Mac OS X 10.8, you must enable SSLv3 in FortiOS.

Use of dedicated management interfaces (*mgmt1* and *mgmt2*)

For optimum stability, use management ports (*mgmt1* and *mgmt2*) for management traffic only. Do not use management ports for general user traffic.

NP4lite platforms

FortiOS 6.2 and later does not support NP4lite platforms.

Tags option removed from GUI

The Tags option is removed from the GUI. This includes the following:

- The *System > Tags* page is removed.
- The *Tags* section is removed from all pages that had a *Tags* section.
- The *Tags* column is removed from all column selections.

L2TP over IPsec on certain mobile devices

Bug ID	Description
459996	Samsung Galaxy Tab A 8 and Android 9.0 crash after L2TP over IPsec is connected.

PCI passthrough ports

Bug ID	Description
605103	PCI passthrough ports order might be changed after upgrading. This does not affect VMXNET3 and SR-IOV ports because SR-IOV ports are in MAC order by default.

SSL traffic over TLS 1.0 will not be checked and will be bypassed by default

FortiOS 6.2.6 and 6.4.3 ended support for TLS 1.0 when `strong-crypto` is enabled under `system global`. With this change, SSL traffic over TLS 1.0 will not be checked so it will be bypassed by default.

To examine and/or block TLS 1.0 traffic, an administrator can either:

- Disable `strong-crypto` under `config system global`. This applies to FortiOS 6.2.6 and 6.4.3, or later versions.
- Under `config firewall ssl-ssh-profile`, set the following to block in the SSL protocol settings:
 - in FortiOS 6.2.6 and later:

```
config firewall ssl-ssh-profile
  edit <name>
    config ssl
      set unsupported-ssl block
    end
  next
end
```

- in FortiOS 6.4.3 and later:

```
config firewall ssl-ssh-profile
  edit <name>
    config ssl
      set unsupported-ssl-negotiation block
    end
  next
end
```

FortiGate 80D release

The FortiGate 80D released in 6.2.9 and later includes the removal of the LTE modem feature using the USB port on that model.

FortiGate 100D transceiver information removed

FortiOS 6.2.10 has removed the display of transceiver information on the *Network > Interfaces* page and the `get system interface transceiver` command.

New features or enhancements

Bug ID	Description
608557	Support proxy server for push service.

Changes in CLI

Bug ID	Description
688989	<p>Change <code>username-case-sensitivity</code> option to <code>username-sensitivity</code>. This new option includes both case sensitivity and accent sensitivity. When disabled, both case and accents are ignored when comparing names during matching:</p> <pre>config user local edit <name> set username-sensitivity {enable disable} next end</pre>

Upgrade Information

Supported upgrade path information is available on the [Fortinet Customer Service & Support site](#).

To view supported upgrade path information:

1. Go to <https://support.fortinet.com>.
2. From the *Download* menu, select *Firmware Images*.
3. Check that *Select Product* is *FortiGate*.
4. Click the *Upgrade Path* tab and select the following:
 - *Current Product*
 - *Current FortiOS Version*
 - *Upgrade To FortiOS Version*
5. Click *Go*.

FortiClient Endpoint Telemetry license

Starting with FortiOS 6.2.0, the FortiClient Endpoint Telemetry license is deprecated. The FortiClient Compliance profile under the Security Profiles menu has been removed as has the Enforce FortiClient Compliance Check option under each interface configuration page. Endpoints running FortiClient 6.2.0 now register only with FortiClient EMS 6.2.0 and compliance is accomplished through the use of Compliance Verification Rules configured on FortiClient EMS 6.2.0 and enforced through the use of firewall policies. As a result, there are two upgrade scenarios:

- Customers using only a FortiGate device in FortiOS 6.0 to enforce compliance must install FortiClient EMS 6.2.0 and purchase a FortiClient Security Fabric Agent License for their FortiClient EMS installation.
- Customers using both a FortiGate device in FortiOS 6.0 and FortiClient EMS running 6.0 for compliance enforcement, must upgrade the FortiGate device to FortiOS 6.2.0, FortiClient to 6.2.0, and FortiClient EMS to 6.2.0.

The FortiClient 6.2.0 for MS Windows standard installer and zip package containing FortiClient.msi and language transforms and the FortiClient 6.2.0 for macOS standard installer are included with FortiClient EMS 6.2.0.

Fortinet Security Fabric upgrade

FortiOS 6.2.10 greatly increases the interoperability between other Fortinet products. This includes:

- FortiAnalyzer 6.2.5
- FortiClient EMS 6.2.3 and later
- FortiClient 6.2.3 and later
- FortiAP 5.4.4 and later
- FortiSwitch 3.6.11 and later

When upgrading your Security Fabric, devices that manage other devices should be upgraded first. Upgrade the firmware of each device in the following order. This maintains network connectivity without the need to use manual steps.

1. FortiAnalyzer
2. FortiManager
3. Managed FortiExtender devices
4. FortiGate devices
5. Managed FortiSwitch devices
6. Managed FortiAP devices
7. FortiClient EMS
8. FortiClient
9. FortiSandbox
10. FortiMail
11. FortiWeb
12. FortiADC
13. FortiDDOS
14. FortiWLC



If the Security Fabric is enabled, then all FortiGate devices must be upgraded to 6.2.10. When the Security Fabric is enabled in FortiOS 6.2.10, all FortiGate devices must be running FortiOS 6.2.10.

Minimum version of TLS services automatically changed

For improved security, FortiOS 6.2.10 uses the `ssl-min-proto-version` option (under `config system global`) to control the minimum SSL protocol version used in communication between FortiGate and third-party SSL and TLS services.

When you upgrade to FortiOS 6.2.10 and later, the default `ssl-min-proto-version` option is TLS v1.2. The following SSL and TLS services inherit global settings to use TLS v1.2 as the default. You can override these settings.

- Email server (`config system email-server`)
- Certificate (`config vpn certificate setting`)
- FortiSandbox (`config system fortisandbox`)
- FortiGuard (`config log fortiguard setting`)
- FortiAnalyzer (`config log fortianalyzer setting`)
- LDAP server (`config user ldap`)
- POP3 server (`config user pop3`)

Downgrading to previous firmware versions

Downgrading to previous firmware versions results in configuration loss on all models. Only the following settings are retained:

- operation mode
- interface IP/management IP
- static route table
- DNS settings
- admin user account
- session helpers
- system access profiles

Amazon AWS enhanced networking compatibility issue

With this enhancement, there is a compatibility issue with 5.6.2 and older AWS VM versions. After downgrading a 6.2.10 image to a 5.6.2 or older version, network connectivity is lost. Since AWS does not provide console access, you cannot recover the downgraded image.

When downgrading from 6.2.10 to 5.6.2 or older versions, running the enhanced NIC driver is not allowed. The following AWS instances are affected:

C5	Inf1	P3	T3a
C5d	m4.16xlarge	R4	u-6tb1.metal
C5n	M5	R5	u-9tb1.metal
F1	M5a	R5a	u-12tb1.metal
G3	M5ad	R5ad	u-18tb1.metal
G4	M5d	R5d	u-24tb1.metal
H1	M5dn	R5dn	X1
I3	M5n	R5n	X1e
I3en	P2	T3	z1d

A workaround is to stop the instance, change the type to a non-ENA driver NIC type, and continue with downgrading.

FortiLink access-profile setting

The new FortiLink `local-access` profile controls access to the physical interface of a FortiSwitch that is managed by FortiGate.

After upgrading FortiGate to 6.2.10, the interface `allowaccess` configuration on all managed FortiSwitches are overwritten by the default FortiGate `local-access` profile. You must manually add your protocols to the `local-access` profile after upgrading to 6.2.10.

To configure local-access profile:

```
config switch-controller security-policy local-access
  edit [Policy Name]
    set mgmt-allowaccess https ping ssh
    set internal-allowaccess https ping ssh
  next
end
```

To apply local-access profile to managed FortiSwitch:

```
config switch-controller managed-switch
  edit [FortiSwitch Serial Number]
    set switch-profile [Policy Name]
    set access-profile [Policy Name]
  next
end
```

FortiGate VM with V-license

This version allows FortiGate VM with V-License to enable `split-vdom`.

To enable `split-vdom`:

```
config system global
  set vdom-mode [no-vdom | split vdom]
end
```

FortiGate VM firmware

Fortinet provides FortiGate VM firmware images for the following virtual environments:

Citrix XenServer and Open Source XenServer

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

Linux KVM

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

Microsoft Hyper-V

- `.out`: Download the 64-bit firmware image to upgrade your existing FortiGate VM installation.
- `.out.hyperv.zip`: Download the 64-bit package for a new FortiGate VM installation. This package contains three folders that can be imported by Hyper-V Manager on Hyper-V 2012. It also contains the file `fortios.vhd` in the Virtual Hard Disks folder that can be manually added to the Hyper-V Manager.

VMware ESX and ESXi

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

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>. After logging in, go to *Support > Firmware Image Checksums* (in the *Downloads* section), enter the image file name including the extension, and click *Get Checksum Code*.

FortiGuard update-server-location setting

The FortiGuard `update-server-location` default setting is different between hardware platforms and VMs. On hardware platforms, the default is `any`. On VMs, the default is `usa`.

On VMs, after upgrading from 5.6.3 or earlier to 5.6.4 or later (including 6.0.0 or later), `update-server-location` is set to `usa`.

If necessary, set `update-server-location` to use the nearest or low-latency FDS servers.

To set FortiGuard update-server-location:

```
config system fortiguard
    set update-server-location [usa|any]
end
```

FortiView widgets

FortiView widgets have been rewritten in 6.2.0. FortiView widgets created in previous versions are deleted in the upgrade.

Product integration and support

The following table lists FortiOS 6.2.10 product integration and support information:

Web Browsers	<ul style="list-style-type: none">• Microsoft Edge• Mozilla Firefox version 93• Google Chrome version 95 Other web browsers may function correctly, but are not supported by Fortinet.
Explicit Web Proxy Browser	<ul style="list-style-type: none">• Microsoft Edge• Mozilla Firefox version 93• Google Chrome version 95• Microsoft Internet Explorer version 11 Other web browsers may function correctly, but are not supported by Fortinet.
FortiManager	See important compatibility information in Fortinet Security Fabric upgrade on page 16 . For the latest information, see FortiManager compatibility with FortiOS in the Fortinet Document Library. Upgrade FortiManager before upgrading FortiGate.
FortiAnalyzer	See important compatibility information in Fortinet Security Fabric upgrade on page 16 . For the latest information, see FortiAnalyzer compatibility with FortiOS in the Fortinet Document Library. Upgrade FortiAnalyzer before upgrading FortiGate.
FortiClient: <ul style="list-style-type: none">• Microsoft Windows• Mac OS X• Linux	<ul style="list-style-type: none">• 6.2.0 See important compatibility information in FortiClient Endpoint Telemetry license on page 16 and Fortinet Security Fabric upgrade on page 16 . FortiClient for Linux is supported on Ubuntu 16.04 and later, Red Hat 7.4 and later, and CentOS 7.4 and later. If you are using FortiClient only for IPsec VPN or SSL VPN, FortiClient version 5.6.0 and later are supported.
FortiClient iOS	<ul style="list-style-type: none">• 6.2.0 and later
FortiClient Android and FortiClient VPN Android	<ul style="list-style-type: none">• 6.2.0 and later
FortiAP	<ul style="list-style-type: none">• 5.4.2 and later• 5.6.0 and later
FortiAP-S	<ul style="list-style-type: none">• 5.4.3 and later• 5.6.0 and later
FortiAP-U	<ul style="list-style-type: none">• 5.4.5 and later
FortiAP-W2	<ul style="list-style-type: none">• 5.6.0 and later

FortiSwitch OS (FortiLink support)	<ul style="list-style-type: none"> • 3.6.9 and later
FortiController	<ul style="list-style-type: none"> • 5.2.5 and later Supported models: FCTL-5103B, FCTL-5903C, FCTL-5913C
FortiSandbox	<ul style="list-style-type: none"> • 2.3.3 and later
Fortinet Single Sign-On (FSSO)	<ul style="list-style-type: none"> • 5.0 build 0302 and later (needed for FSSO agent support OU in group filters) <ul style="list-style-type: none"> • Windows Server 2019 Standard • Windows Server 2019 Datacenter • Windows Server 2019 Core • Windows Server 2016 Datacenter • Windows Server 2016 Standard • Windows Server 2016 Core • Windows Server 2012 Standard • Windows Server 2012 R2 Standard • Windows Server 2012 Core • Windows Server 2008 (32-bit and 64-bit) • Windows Server 2008 R2 64-bit • Windows Server 2008 Core • Novell eDirectory 8.8
FortiExtender	<ul style="list-style-type: none"> • 4.0.0 and later. For compatibility with latest features, use latest 4.0 version.
AV Engine	<ul style="list-style-type: none"> • 6.00165
IPS Engine	<ul style="list-style-type: none"> • 5.00251
Virtualization Environments	
Citrix	<ul style="list-style-type: none"> • Hypervisor Express 8.1, build 2019-12-04
Linux KVM	<ul style="list-style-type: none"> • Ubuntu 18.04.3 LTS • QEMU emulator version 4.4.4 (Debian 1:4.0+dfsg-0ubuntu9.4) • libvirt (libvirt) 4.0.0
Microsoft	<ul style="list-style-type: none"> • Hyper-V Server 2019
Open Source	<ul style="list-style-type: none"> • XenServer version 4.1 and later
VMware	<ul style="list-style-type: none"> • ESX versions 4.0 and 4.1 • ESXi versions 4.0, 4.1, 5.0, 5.1, 5.5, 6.0, 6.5, and 6.7

Language support

The following table lists language support information.

Language support

Language	GUI
English	✓
Chinese (Simplified)	✓
Chinese (Traditional)	✓
French	✓
Japanese	✓
Korean	✓
Portuguese (Brazil)	✓
Spanish	✓

SSL VPN support

SSL VPN standalone client

The following table lists SSL VPN tunnel client standalone installer for the following operating systems.

Operating system and installers

Operating System	Installer
Linux CentOS 6.5 / 7 (32-bit & 64-bit)	2336. Download from the Fortinet Developer Network: https://fndn.fortinet.net .
Linux Ubuntu 16.04 / 18.04 (32-bit & 64-bit)	

Other operating systems may function correctly, but are not supported by Fortinet.



SSL VPN standalone client no longer supports the following operating systems:

- Microsoft Windows 7 (32-bit & 64-bit)
- Microsoft Windows 8 / 8.1 (32-bit & 64-bit)
- Microsoft Windows 10 (64-bit)
- Virtual Desktop for Microsoft Windows 7 SP1 (32-bit)

SSL VPN web mode

The following table lists the operating systems and web browsers supported by SSL VPN web mode.

Supported operating systems and web browsers

Operating System	Web Browser
Microsoft Windows 7 SP1 (32-bit & 64-bit)	Mozilla Firefox version 93 Google Chrome version 95
Microsoft Windows 10 (64-bit)	Microsoft Edge Mozilla Firefox version 93 Google Chrome version 95
Ubuntu 20.04 (64-bit)	Mozilla Firefox version 93 Google Chrome version 95
macOS Monterey 12.0	Apple Safari version 15 Mozilla Firefox version 93 Google Chrome version 95
iOS	Apple Safari Mozilla Firefox Google Chrome
Android	Mozilla Firefox Google Chrome

Other operating systems and web browsers may function correctly, but are not supported by Fortinet.

SSL VPN host compatibility list

The following table lists the antivirus and firewall client software packages that are supported.

Supported Microsoft Windows XP antivirus and firewall software

Product	Antivirus	Firewall
Symantec Endpoint Protection 11	✓	✓
Kaspersky Antivirus 2009	✓	
McAfee Security Center 8.1	✓	✓
Trend Micro Internet Security Pro	✓	✓
F-Secure Internet Security 2009	✓	✓

Supported Microsoft Windows 7 32-bit antivirus and firewall software

Product	Antivirus	Firewall
CA Internet Security Suite Plus Software	✓	✓
AVG Internet Security 2011		
F-Secure Internet Security 2011	✓	✓
Kaspersky Internet Security 2011	✓	✓
McAfee Internet Security 2011	✓	✓
Norton 360™ Version 4.0	✓	✓
Norton™ Internet Security 2011	✓	✓
Panda Internet Security 2011	✓	✓
Sophos Security Suite	✓	✓
Trend Micro Titanium Internet Security	✓	✓
ZoneAlarm Security Suite	✓	✓
Symantec Endpoint Protection Small Business Edition 12.0	✓	✓

Resolved issues

The following issues have been fixed in version 6.2.10. To inquire about a particular bug, please contact [Customer Service & Support](#).

Anti Virus

Bug ID	Description
665173	Crash logs are sometimes truncated/incomplete.

DNS Filter

Bug ID	Description
682060	DNS proxy is holding 60% memory caused by retransmitted DNS messages sent from DNS clients, which causes the FortiGate to enter conserve mode.

Explicit Proxy

Bug ID	Description
654455	Proxy policy destination address set to none allows all traffic.
681969	FSSO explicit proxy authentication appears as basic instead of FSSO.

Firewall

Bug ID	Description
561170	Traffic is blocked by NGFW policy when SDN connector firewall address is configured in policy.
644225	Challenge ACK is being dropped.
716317	IPS user quarantine ban event is marking the sessions as dirty.

Bug ID	Description
719925	Load balancing is not allowed with a flow-based policy, even if the server type is configured as IP or TCP.
730803	Applying a traffic shaping profile and outbound bandwidth above 200000 blocks the traffic.
743160	SYN-ACK is dropped when application control with <code>auto-asic-offload</code> and NP acceleration are enabled in a firewall policy.

GUI

Bug ID	Description
610572	Guest user credentials never expire if a guest user logs in via the WiFi portal while an administrator is actively viewing the user's account via the GUI. If the administrator clicks <i>OK</i> in the user edit dialog after the guest user has logged in, the user's current login session is not subject to the configured expiration time.
674592	When <code>config ha-mgmt-interfaces</code> is configured, the GUI incorrectly shows an error when setting overlapping IP address.
720613	The event log sometimes contains duplicated lines when downloaded from the GUI.
722832	When LDAP server settings involve FQDN, LDAPS, and an enabled server identity check, the following LDAP related GUI items do not work: LDAP setting dialog, LDAP credentials test, and LDAP browser.

HA

Bug ID	Description
634465	When sending UDP packets, <code>hasync</code> code uses the wrong buffer size, which may overwrite beyond the buffer to other corrupted memory.
659837	The HA secondary cannot synchronize a new virtual switch configuration from the primary.
662978	Long lasting sessions are expired on HA secondary device with a 10G interface.
669301	When sending UDP packets, <code>hasync</code> code uses the wrong buffer size so that it may overwrite beyond the buffer to other corrupted memory.
693178	Sessions timeout after traffic failover goes back and forth on a transparent FGSP cluster.
695067	When there are more than two members in a HA cluster and the HA interface is used for the heartbeat interface, some RX packet drops are observed on the HA interface. However, no apparent impact is observed on the cluster operation.
709518	Secondary device is unable to connect to FortiCloud with secondary IP as the source IP.

Bug ID	Description
710236	Heartbeat interfaces do not get updated under <code>diagnose sys ha dump-by <group memory></code> after HA hbdev configuration changes.
715939	Cluster is unstable when running interface configuration scripts. For example, when inserting many VLANs, hataik will get a lot of <code>intf_vd_changed</code> events and recheck the MAC every time, which blocks hataik from sending heartbeat packets for a long time and the peer loses it.
722284	When there is a large number of VLAN interfaces (around 600), the FortiGate reports <code>VLAN heartbeat lost on subinterface vlan</code> error for multiple VLANs.
723130	<code>diagnose sys ha reset-uptime</code> on the secondary devices triggers a failover on a cluster with more than two members.
744826	API key (token) on the secondary device is not synchronized to the primary when <code>standalone-config-sync</code> is enabled.
746008	DNS may not resolve correctly in a virtual cluster environment. It also impacts the FortiGate 6000F and 7000E/F series where DNS may not resolve on the correct blades (FPC/FPM).

Intrusion Prevention

Bug ID	Description
680501	Destination interfaces are set to unknown for previous ADVPN shortcuts sessions.
689259	Flow-based AV scanning does not send specific extension files to FortiSandbox.
693800	IPS memory spike on 6.2.7 running version: 5.00229.

IPsec VPN

Bug ID	Description
578879, 676728	IPsec tunnel bandwidth usage is not correct on the GUI widget and SNMP graph when NPU is doing host offloading.
699834	ESP errors are logged with incorrect SPI value.
714400	Dynamic IKEv2 IPsec VPN fails to establish after adding new phase 2 with mismatched traffic selector.
715651	iked crashed when clients from the same peer connect to two different dynamic server configurations that are using RADIUS authentication.
717082	FortiGate keeps initiating DHCP SA rekey after lifetime expires.

Bug ID	Description
720024	Signature authentication IKE negotiation gets stuck and tunnel is not set up. This issue appears after a reboot, and can become unstuck by running <code>get vpn ike gateway</code> .
752947	The hub sometimes allows the IKEv2 IPsec tunnel with a spoke to be established that uses an expired or revoked certificate.

Log & Report

Bug ID	Description
703738	Log upload through user proxy is randomly terminated.
704998	FortiCloud connection might get disconnected when FortiCloud logging restarts because the keep alive counter is not reset properly.
713014	Cannot perform disk scan after enabling disk raid.
718140	Logs are missing on FortiGate Cloud from a certain point.
722315	System might generate garbage administrator log events upon session timeout.
724827	Syslogd is using the wrong source IP when configured with <code>interface-select-method auto</code> .
745310	Need to add the MIGSOCK send handler to flush the queue when the first item is added to the syslog queue to avoid logs getting stuck.

Proxy

Bug ID	Description
520176	Multiple WAD crashes observed with signal 6. The issue could be reproduced with a slow server that will not respond the connection in 10 seconds, and if the configuration changes during the 10 seconds.
568905	WAD crashes due to RCX having a null value.
582464	WAD SSL crash due to wrong cipher options chosen.
586281	WAD memory corruption.
615391	Reusing the buffer region causes frequent WAD crashes.
663088	Application control in Azure fails to detect and block SSH traffic with proxy inspection.
670339	Proxy-based SSL out-band-probe session has local out connection. Since the local out session will not learn the router policy, it makes all outbound connections fail if there is no static router to the destination.
675343	WAD crashes with transparent web proxy when connecting to a forward server.

Bug ID	Description
691468	WAD IPS crashes because task is scheduled after closing.
717157	When using certificate inspection in a firewall policy, the WAD daemon might crash when clients try to connect to a web proxy server through the FortiGate in transparent mode or through a web proxy forward server.
719681	Flow control failure occurred while transferring large files when <code>stream-scan</code> was running, which sometimes resulted in WAD memory spike.
726999	WAD crash on <code>wad_hash_map_del</code> .
727349	Traffic is stuck if HTTP POST does not have an end of boundary.
733760	Proxy inspection firewall policy with proxy AV blocks POP3 traffic of the Windows 10 built-in Mail app.
735893	After the Chrome 92 update, in FOS 6.2, 6.4, or 7.0 running an IPS engine older than version 5.00246, 6.00099, or 7.00034, users are unable to reach specific websites in proxy mode with UTM applied. In flow mode everything works as expected.
744756	Web proxy forward server group could not recover sometimes if the FQDN is not resolved.

REST API

Bug ID	Description
663441	REST API unable to change status of interface when VDOMs are enabled.

Routing

Bug ID	Description
611708	Make SNMP get BGP peer state timely once BGP neighbor enters or exits established state.
655447	BGP prefix lifetime resets every 60 seconds when scanning BGP RIB.
661270	OSPF is stuck in loading state when there is a large amount of OSPF interfaces.
662655	The OSPF neighborship cannot be established; get MD5 authentication error when the wrong MD5 key is deleted after modifying the key.
693396	hasync daemon was busy in dead loop if FD resource was used up when flushing routes from the kernel.
693496	SD-WAN rules not working for FortiAnalyzer settings because the <code>interface-select-method</code> is implemented on a remote device FortiAnalyzer/FDS but not added to FortiView/log viewing API.

Bug ID	Description
693988	For DSL interface, adding static route with <code>set dynamic-gateway enable</code> does not add route to routing table.
697658	FortiCloud activation does not honor the <code>set interface-select-method</code> command under <code>config system fortiguard</code> .
723726	TCP session drops between virtual wire pair with <code>auto-asic-offload</code> enabled in policy.
725322	Improve the help text for <code>distance</code> to indicate that 255 means unreachable.
748733	Remote IP route shows <code>incomplete inactive</code> in the routing table, which causes issues with BGP routes where the peer is the next hop.

Security Fabric

Bug ID	Description
635183	ACI dynamic address cannot be retrieved in HA vcluster2 from SDN connector.
666242	Automation stitch CLI scripts fail with greater than 255 characters; up to 1023 characters should be supported.
735717	vmwd gives an error when folders are created in the vSphere web interface, and vmwd ignores the IP addresses from vApp.

SSL VPN

Bug ID	Description
646295	When DNS domain is configured, requests with NTLM of hostname only bookmark could not get response from server.
677057	SSL VPN firewall policy creation via CLI does not require setting user identity.
677548	In SSL VPN web mode, options pages are not shown after clicking the option tag on the left side of the webpage on an OWA server.
677668	sslvpn crashes due to wrong application index referencing the wrong shared memory when daemons are busy. Crash found when RADIUS user uses Framed-IP.
695404	WALLIX personal bookmark issue in SSL VPN portal.
695763	FortiClient iOS 6.4.5. has new feature that allows bypassing of 2FA for SSL VPN 2FA. The FortiGate should allow access when 2FA is skipped on FortiClient.
697637	FortiToken Cloud user not working when in a user group.

Bug ID	Description
706646	SolarWinds Orion NPM platform's web application has issues in SSL VPN web mode.
711516	If there are multiple VDOMs and the management VDOM is not the root, when SAML is configured on the non-root VDOM, the SAML button may not display correctly after a policy refresh.
714604	SSL VPN daemon may crash when connection releases.
715928	SSL VPN signal 11 crashes at <code>sslvpn_ppp_associate_fd_to_ipaddr</code> . For RADIUS users with Framed-IP using tunnel mode, the first user logs in successfully, then a second user with the same user name logs in and kicks the first user out. SSL VPN starts a five-second timer to wait for the first user resource to clean up. However, before the timer times out, the PPP tunnel setup fails and the PPP context is released. When the five-second timer times out, SSL VPN still tries to use the PPP context that has already been released and causes the crash.
716622	Due to a change on samld side that increases the length of the SAML attribute name to 256, SSL VPN could not correctly parse the username from the SAML response when the username attribute has a long name.
718170	SSL VPN web portal does not show thumbnails of videos for an internal JS-based web server.
726576	Internal webpage with JavaScript is not loading in SSL VPN web mode.
731278	Customer internal website (ac***.sa***.com) does not load properly when connecting via SSL VPN web mode.
745499	In cases where a user is establishing two tunnel connections, there is a chance that the second session knocks out the first session before it is updated, which causes a session leak.

Switch Controller

Bug ID	Description
689403	Unable to add FSW-448E using serial number on FortiGate.

System

Bug ID	Description
514239	There are no kernel routing updates when the session is re-initialized at the DSLAM side. DSL creates a default route to 240.0.0.1 after changing any configuration on the DSL interface.
539059	Updating fails on low-end models because of disk space shortage (/data).
627236	TCP traffic disruption when traffic shaper takes effect with NP offloading enabled.
627645	When upgrading FG-100D, several processes randomly go into D state, which generates cluster and service issues.

Bug ID	Description
636999	LTE does not connect after upgrading from 6.2.3 on FG-30E-3G4G models.
639089	Transceiver is not detected/fails to read module EEPROM. Affected models: FG-80E, FG-100E, FG-140E, and FG-100EF.
641708	FTLF8536P4BCV shows <code>This transceiver is not certified by Fortinet, corrupt part number and serial number after HA cluster sync.</code>
648014, 661784	FortiDDNS is unable to update the renewed public IP address to FortiGuard server in some error conditions.
649729	HA synchronization packets are hashed to a single queue when <code>sync-packet-balance</code> is enabled.
651626	A session clash is caused by the same NAT port. It happens when many sessions are created at the same time and they get the same NAT port due to the wrong port seed value.
675418	FortiManager CLI script for 2FA FortiToken mobile push does not trigger activation code email.
681791	Install preview does not show all changes performed on the FortiGate.
682227	DSL creates a default route to 240.0.0.1 after changing any configuration on a DSL interface.
683387, 711698	Change WWAN interface default netmask to /32 and default distance to 1.
687398	Multiple SFPs and FTLX8574D3BCL in multiple FG-1100E units have been flapping intermittently with various devices.
687519	Bulk changes through the CLI are very slow with 24000 existing policies.
688009	Update built-in modem firmware that comes with the device in order for the SIM to be correctly identified and make LTE link work properly.
689317, 698927	After pushing the interface configuration from FortiManager, the device index is incorrectly set to 0.
691729	WWAN interface on FG-40F- 3G4G eventually goes offline until a reboot or configuration change occurs.
692490	When an <code><entry name></code> is on the same line as <code>config <setting> <setting> <entry name></code> , it is not handled properly to send to FortiManager.
692943	If an updated FFDB package is found, crash may happen at <code>init_ffdb_map</code> if it is called when <code>ffdb_map</code> or <code>ffdb_app</code> is already in the process of being parsed, especially in HA.
696556	Support <code>gtp-enhance-mode</code> (GTP-U) on FG-3815D.
697146	DHCP client is unable to clean old LTE IP addresses on VLAN and FortiExtender WAN interfaces running in DHCP mode.
699902	SNMP query of <code>fgFwPolTables</code> (1.3.6.1.4.1.123456.101.5.1.2.1) causes high CPU on a specific configuration.
702135	<code>cmdbsvr</code> memory leak due to unreleased memory allocated by OpenSSL.

Bug ID	Description
702932	FG-1500D reboots suddenly after COMLog reported kernel panic and voipd is tainted.
702966	There was a memory leak in the administrator login debug that caused the getty daemon to be killed.
704981	LLDP transmission fails if there are nested software switches.
713324	Command fail when running <code>execute private-encryption-key <xxx></code> .
713835	The BLE pin hole behavior should not be applied on FG-100F generation 1 that has no BLE built in.
714256	A softirq happened in an unprotected session read lock and caused a self-deadlock.
714805	FortiManager shows auto update for down port from FortiGate, but FortiGate event logs do not show any down port events when user shuts down the <code>ha monitor dev</code> .
715647	In VWP with <code>set wildcard-vlan enable</code> , for some special cases the SKB headlen is not long enough for handling. It may cause a protective crash when doing <code>skb_pull</code> .
715978	NTurbo does not work with EMAC VLAN interface.
716341	SFP28 port flapping when the speed is set to 10G.
721733	IPv6 networks are not reachable shortly after FortiGate failover because an unsolicited neighbor advertisement is sent without a router flag.
722273	SA is freed while its timer is still pending, which leads to a kernel crash.
725264	FG-600E copper speed LED does not work.
740649	FortiGate sends CSR configuration without double quote (") to FortiManager.
753602	FG-40F has a newcli signal 11 crash.

Upgrade

Bug ID	Description
716912	SSH access may be lost in some cases after upgrading to 6.2.8, 6.4.6, or 7.0.0.

User & Device

Bug ID	Description
625107	No response when using FortiToken Mobile push because the source IP cannot be set.
688989	Two-factor authentication can be bypassed with some configurations.

Bug ID	Description
701356	When a GUI administrator certificate, <code>admin-server-cert</code> , is provisioned via SCEP, the FortiGate does not automatically offer the newly updated certificate to HTTPS clients. FortiOS 7.0.0 and later does not have this issue.
710212	RADIUS accounting port is occasionally missing.
725056	FSSO local poller fails after recent Microsoft Windows update (KB5003646, KB5003638, ...).
750551	DST_Root_CA_X3 certificate is expired.

VM

Bug ID	Description
739376	vmwd gives an error when folders are created in the vSphere web interface, and vmwd ignores the IP addresses from vApp.

Web Filter

Bug ID	Description
672994	Web filter warning message does not contain certification chain.
717619	Running a remote CLI script from FortiManager can create a duplicated FortiGuard web filter category.
739349	Web filter local rating configuration check might strip the URL, and the URL filter daemon does not start when <code>utm-status</code> is disabled.

WiFi Controller

Bug ID	Description
676689	RADIUS traffic not matching SD-WAN rule when using wpad daemon for wireless connection.
709871	After the firmware upgrade, the AP cannot register to the central WLC because NPU offload changed the source and destination ports from 4500 to 0.
739793	VM license file generated by FortiCare lacks new line at the end and causes <code>cw_acd</code> process to constantly restart.

Common Vulnerabilities and Exposures

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

Bug ID	CVE references
600586	FortiOS 6.2.10 is no longer vulnerable to the following CVE Reference: <ul style="list-style-type: none">• CVE-2019-16151
669673	FortiOS 6.2.10 is no longer vulnerable to the following CVE Reference: <ul style="list-style-type: none">• CVE-2021-26103
686912	FortiOS 6.2.10 is no longer vulnerable to the following CVE Reference: <ul style="list-style-type: none">• CVE-2021-32600
710161	FortiOS 6.2.10 is no longer vulnerable to the following CVE Reference: <ul style="list-style-type: none">• CVE-2021-24018
726300	FortiOS 6.2.10 is no longer vulnerable to the following CVE Reference: <ul style="list-style-type: none">• CVE-2021-36169
752134	FortiOS 6.2.10 is no longer vulnerable to the following CVE Reference: <ul style="list-style-type: none">• CVE-2021-42757

Known issues

The following issues have been identified in version 6.2.10. To inquire about a particular bug or report a bug, please contact [Customer Service & Support](#).

DNS Filter

Bug ID	Description
582374	License shows expiry date of 0000-00-00.

Explicit Proxy

Bug ID	Description
540091	Cannot access explicit FTP proxy via VIP.

Firewall

Bug ID	Description
654356	In NGFW policy mode, sessions are not re-validated when security policies are changed. Workaround: clear the session after policy change.

FortiView

Bug ID	Description
635309	When FortiAnalyzer logging is configured using an FQDN domain, the GUI displays a 500 error message on the FortiView <i>Compromised Hosts</i> page.
673225	FortiView <i>Top Traffic Shaping</i> widget does not show data for outbound traffic if the source interface's role is WAN. Data is displayed if the source interface's role is LAN, DMZ, or undefined.

GUI

Bug ID	Description
354464	Antivirus archive logging enabled from the CLI will be disabled by editing the antivirus profile in the GUI, even if no changes are made.
514632	Inconsistent reference count when using ports in HA <code>session-sync-dev</code> .
529094	When creating an antispam block/allowlist entry, <i>Mark as Reject</i> should be grayed out.
541042	Log viewer forwarded traffic does not support multiple filters for one field.
584915	OK button missing from many pages when viewed in Chrome on an Android device.
584939	VPN event logs are incorrectly filtered when there are two <i>Action</i> filters and one of them contains "-".
602102	Warning message is not displayed when a user configures an interface with a static IP address that is already in use.
602397	Managed FortiSwitch and FortiSwitch <i>Ports</i> pages are slow to load when there are many managed FortiSwitches. This performance issue needs a fix on both FortiOS and FortiSwitch. A fix was provided in FortiOS 7.0.1 GA and FortiSwitch 7.0.1 GA.
621254	When creating or editing an IPv4 policy or address group, firewall address searching does not work if there is an empty wildcard address due to a configuration error.
664007	GUI incorrectly displays the warning, <i>Botnet package update unavailable, AntiVirus subscription not found.</i> , when the antivirus entitlement is expiring within 30 days. The actual botnet package update still works within the active entitlement duration.
672599	After performing a search on firewall <i>Addresses</i> , the matched count over total count displayed for each address type shows an incorrect total count number. The search functionality still works correctly.
682440	On <i>Firewall Policy</i> list, the tooltip for <i>IP Pool</i> incorrectly shows <i>Port Block Allocation</i> as being exhausted if there are expiring PBAs available to be reallocated.
688994	The <i>Edit Web Filter Profile</i> page incorrectly shows that a URL filter is configured (even though it is not) if the URL filter entry has the same name as the web filter profile in the CLI.
695163	When there are a lot of historical logs from FortiAnalyzer, the FortiGate GUI <i>Forward Traffic</i> log page can take time to load if there is no specific filter for the time range. Workaround: provide a specific time range filter, or use the FortiAnalyzer GUI to view the logs.

Intrusion Prevention

Bug ID	Description
565747	IPS engine 5.00027 has signal 11 crash.

Bug ID	Description
586544	IPS intelligent mode not working when reflect sessions are created on different physical interfaces.
587668	IPS engine 5.00035 has signal 11 crash.
590087	When IPS pcap is enabled, traffic is intermittently disrupted after disk I/O reaches IOPS limit.

Log & Report

Bug ID	Description
606533	User observes <code>FGT internal error</code> while trying to log in or activate FortiGate Cloud from the web UI.

REST API

Bug ID	Description
584631	REST API administrator with token unable to configure HA setting (via login session works).
713445	For API user tokens with CORS enabled and set to wildcard *, direct API requests using this token are not processed properly. This issue impacts FortiOS version 5.6.1 and later. Workaround: set CORS to an explicit domain.
714075	When CORS is enabled for REST API administrators, POST and PUT requests with body data do not work with CORS due to the pre-flight requests being handled incorrectly. This only impacts newer browser versions that use pre-flight requests.

Routing

Bug ID	Description
537354	BFD/BGP dropping when <code>outbandwidth</code> is set on interface.

Security Fabric

Bug ID	Description
614691	Slow GUI performance in large Fabric topology with over 50 downstream devices.

SSL VPN

Bug ID	Description
505986	On IE 11, SSL VPN web portal displays blank page title <code>{{::data.portal.heading}}</code> after authentication.
887674	FortiGate will intermittently stop accepting new SSL VPN connections across all VDOMs.

Switch Controller

Bug ID	Description
588584	GUI should add support to allow using switch VLAN interface under a tenant VDOM on a managed switch VDOM.
605864	If the firewall is downgraded from 6.2.3 to 6.2.2, the FortiLink interface loses its CAPWAP setting.

System

Bug ID	Description
464340	EHP drops for units with no NP service module.
578031	FortiManager Cloud cannot be removed once the FortiGate has trouble with contract.
595244	There is duplicate information when checking interface references in global.
600032	SNMP does not provide routing table for non-management VDOM.
607565	Interface <code>emac-vlan</code> feature does not work on SoC4 platform.
669645	VXLAN VNI interface cannot be used with a hardware switch.
694202	<code>stpforward</code> does not work with LAG interfaces on a transparent VDOM.

Upgrade

Bug ID	Description
658664	FortiExtender status becomes <code>discovered</code> after upgrading from 6.0.10 (build 0365). Workaround: change the <code>admin</code> from <code>discovered</code> to <code>enable</code> after upgrading. <code>config extender-controller extender</code>

Bug ID	Description
	<pre>edit <id> set admin enable next end</pre>

User & Device

Bug ID	Description
595583	Device identification via LLDP on an aggregate interface does not work.

VM

Bug ID	Description
587757	FG-VM image unable to be deployed on AWS with additional HDD (st1) disk type.
596742	Azure SDN connector replicates configuration from primary device to secondary device during configuration restore.
605511	FG-VM-GCP reboots a couple of times due to kernel panic.
608881	IPsec VPN tunnel not staying up after failing over with AWS A-P cross-AZ setup.
640436	FortiGate AWS bootstrapped from configuration does not read SAML settings.
668625	During every FortiGuard UTM update, there is high CPU usage because only one vCPU is available.
685782	HTTPS administrative interface responds over heartbeat port on Azure FortiGate despite <code>allowaccess</code> settings.

Built-in AV engine

Resolved engine issues

Bug ID	Description
752420	If a .TAR.BZ2 or .TAR.GZ archive contains an archive bomb inside its compressed stream, the AV engine will time out.
771674	Fixed malformed trailer and xref stream in PDF files caused by CDR reconstruction. CDR returning <code>NULL</code> value for reconstructed PDF file paths has been fixed.
772019	New engine version (6.2155, 6.4258, 6.6350) cannot dump some XLS files while some older versions could (6.2142, 6.2137).
833753	FortiMail postdeliveryd signal 11 crash caused by AV engine CDR.
852102	CDR is removing PDF file's content.

Built-in IPS engine

Resolved engine issues

Bug ID	Description
730235	The IPS engine application crashed during traffic testing (FG-5001E, FG-5001E1).
811213	High CPU usage on IPS engine (7.00124 and 7.00126) when CP is enabled.
819224	Migrate regex engine to PCRE2.

Limitations

Citrix XenServer limitations

The following limitations apply to Citrix XenServer installations:

- XenTools installation is not supported.
- FortiGate-VM can be imported or deployed in only the following three formats:
 - XVA (recommended)
 - VHD
 - OVF
- The XVA format comes pre-configured with default configurations for VM name, virtual CPU, memory, and virtual NIC. Other formats will require manual configuration before the first power on process.

Open source XenServer limitations

When using Linux Ubuntu version 11.10, XenServer version 4.1.0, and libvir version 0.9.2, importing issues may arise when using the QCOW2 format and existing HDA issues.



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