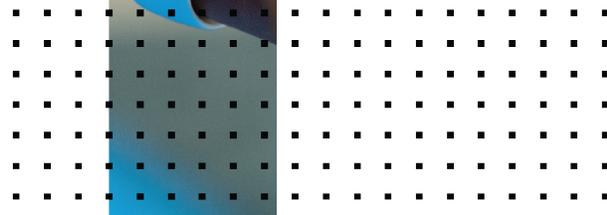


Release Notes

FortiProxy 7.0.20



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FEEDBACK

Email: techdoc@fortinet.com



March 11, 2025

FortiProxy 7.0.20 Release Notes

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Change log

Date	Change Description
2025-01-09	Initial release.
2025-01-15	Added CVE-2024-55591 to Resolved issues on page 13.
2025-03-11	Added CVE-2024-45324 to Resolved issues on page 13.

Introduction

FortiProxy delivers a class-leading Secure Web Gateway, security features, unmatched performance, and the best user experience for web sites and cloud-based applications. All FortiProxy models include the following features out of the box:

Security modules

The unique FortiProxy architecture offers granular control over security, understanding user needs and enforcing Internet policy compliance with the following security modules:

Web filtering	The web-filtering solution is designed to restrict or control the content a reader is authorized to access, delivered over the Internet using the web browser. The web rating override allows users to change the rating for a web site and control access to the site without affecting the rest of the sites in the original category.
DNS filtering	Similar to the FortiGuard web filtering. DNS filtering allows, blocks, or monitors access to web content according to FortiGuard categories.
Email filtering	The FortiGuard Antispam Service uses both a sender IP reputation database and a spam signature database, along with sophisticated spam filtering tools on Fortinet appliances and agents, to detect and block a wide range of spam messages. Updates to the IP reputation and spam signature databases are provided continuously by the FDN.
CIFS filtering	CIFS UTM scanning, which includes antivirus file scanning and DLP file filtering.
Application control	Application control technologies detect and take action against network traffic based on the application that generated the traffic.
Data Loss Prevention (DLP)	The FortiProxy DLP system allows you to prevent sensitive data from leaving your network.
Antivirus	Antivirus uses a suite of integrated security technologies to protect against a variety of threats, including both known and unknown malicious codes (malware), plus Advanced Targeted Attacks (ATAs), also known as Advanced Persistent Threats (APTs).
SSL/SSH inspection (MITM)	SSL/SSH inspection helps to unlock encrypted sessions, see into encrypted packets, find threats, and block them.
Intrusion Prevention System (IPS)	IPS technology protects your network from cybercriminal attacks by actively seeking and blocking external threats before they can reach potentially vulnerable network devices.
Content Analysis	Content Analysis allow you to detect adult content images in real time. This service is a real-time analysis of the content passing through the FortiProxy unit.

Caching and WAN optimization

All traffic between a client network and one or more web servers is intercepted by a web cache policy. This policy causes the FortiProxy unit to cache pages from the web servers on the FortiProxy unit and makes the cached pages available to users on the client network. Web caching can be configured for standard and reverse web caching.

FortiProxy supports WAN optimization to improve traffic performance and efficiency as it crosses the WAN. FortiProxy WAN optimization consists of a number of techniques that you can apply to improve the efficiency of communication across your WAN. These techniques include protocol optimization, byte caching, SSL offloading, and secure tunneling.

Protocol optimization can improve the efficiency of traffic that uses the CIFS, FTP, HTTP, or MAPI protocol, as well as general TCP traffic. Byte caching caches files and other data on FortiProxy units to reduce the amount of data transmitted across the WAN.

FortiProxy is intelligent enough to understand the differing caching formats of the major video services in order to maximize cache rates for one of the biggest contributors to bandwidth usage. FortiProxy will:

- Detect the same video ID when content comes from different CDN hosts
- Support seek forward/backward in video
- Detect and cache separately; advertisements automatically played before the actual videos

What's new

FortiProxy 7.0.20 does not include any new features, enhancements, or changes.

Product integration and support

The following table lists product integration and support information for FortiProxy 7.0.20 build 0210:

Type	Product and version
FortiProxy appliance	<ul style="list-style-type: none">• FPX-400E• FPX-2000E• FPX-4000E• FPX-400G• FPX-2000G• FPX-4000G
FortiProxy VM	<ul style="list-style-type: none">• FPX-AZURE• FPX-HY• FPX-KVM• FPX-KVM-ALI• FPX-KVM-AWS• FPX-KVM-GCP• FPX-KVM-OPC• FPX-VMWARE• FPX-XEN
Fortinet products	<ul style="list-style-type: none">• FortiOS 6.x and 7.0 to support the WCCP content server• FortiOS 6.0 and 7.0 to support the web cache collaboration storage cluster• FortiManager - See the FortiManager Release Notes.• FortiAnalyzer - See the FortiAnalyzer Release Notes.• FortiSandbox and FortiCloud FortiSandbox- See the FortiSandbox Release Notes and FortiSandbox Cloud Release Notes.• Fortisolator 2.2 and later - See the Fortisolator Release Notes.
Fortinet Single Sign-On (FSSO)	5.0 build 0301 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 64-bit (requires Microsoft SHA2 support package)• Windows Server 2008 R2 64-bit (requires Microsoft SHA2 support package)

Type	Product and version												
	<ul style="list-style-type: none"> Windows Server 2008 Core (requires Microsoft SHA2 support package) Novell eDirectory 8.8 												
Web browsers	<ul style="list-style-type: none"> Microsoft Edge Mozilla Firefox version 87 Google Chrome version 89 <hr/> <div style="display: flex; align-items: center;">  <p>Other web browsers may work correctly, but Fortinet does not support them.</p> </div> <hr/>												
Virtualization environments	<p>Fortinet recommends running the FortiProxy VM with at least 4 GB of memory because the AI-based Image Analyzer uses more memory compared to the previous version.</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">Hyper-V</td> <td> <ul style="list-style-type: none"> Hyper-V Server 2008 R2, 2012, 2012R2, 2016, 2019, and 2022 </td> </tr> <tr> <td>Linux KVM</td> <td> <ul style="list-style-type: none"> RHEL 7.1/Ubuntu 12.04 and later CentOS 6.4 (qemu 0.12.1) and later </td> </tr> <tr> <td>Xen hypervisor</td> <td> <ul style="list-style-type: none"> OpenXen 4.13 hypervisor and later Citrix Hypervisor 7 and later </td> </tr> <tr> <td>VMware</td> <td> <ul style="list-style-type: none"> ESXi versions 6.5, 6.7, and 7.0 </td> </tr> <tr> <td>Openstack</td> <td> <ul style="list-style-type: none"> Ussuri </td> </tr> <tr> <td>Nutanix</td> <td> <ul style="list-style-type: none"> AHV </td> </tr> </table>	Hyper-V	<ul style="list-style-type: none"> Hyper-V Server 2008 R2, 2012, 2012R2, 2016, 2019, and 2022 	Linux KVM	<ul style="list-style-type: none"> RHEL 7.1/Ubuntu 12.04 and later CentOS 6.4 (qemu 0.12.1) and later 	Xen hypervisor	<ul style="list-style-type: none"> OpenXen 4.13 hypervisor and later Citrix Hypervisor 7 and later 	VMware	<ul style="list-style-type: none"> ESXi versions 6.5, 6.7, and 7.0 	Openstack	<ul style="list-style-type: none"> Ussuri 	Nutanix	<ul style="list-style-type: none"> AHV
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Openstack	<ul style="list-style-type: none"> Ussuri 												
Nutanix	<ul style="list-style-type: none"> AHV 												
Cloud platforms	<ul style="list-style-type: none"> AWS (Amazon Web Services) Microsoft Azure GCP (Google Cloud Platform) OCI (Oracle Cloud Infrastructure) Alibaba Cloud 												

Deployment information

You can deploy the FortiProxy on a FortiProxy unit or VM. You can also upgrade or downgrade an existing FortiProxy deployment. Refer to [Product integration and support on page 8](#) for a list of supported FortiProxy units and VM platforms.

Downloading the firmware file

1. Go to <https://support.fortinet.com>.
2. Click *Login* and log in to the Fortinet Support website.
3. From the *Support > Downloads* menu, select *Firmware Download*.
4. In the *Select Product* dropdown menu, select *FortiProxy*.
5. On the *Download* tab, navigate to the FortiProxy firmware file for your FortiProxy model or VM platform in the *Image Folders/Files* section. *.out* files are for upgrade or downgrade. *.zip* and *.gz* files are for new deployments.
6. Click *HTTPS* to download the firmware that meets your needs.

Deploying a new FortiProxy appliance

Refer to the [FortiProxy QuickStart Guide](#) for detailed instructions of deploying a FortiProxy appliance. Refer to [Product integration and support on page 8](#) for a list of supported FortiProxy units.

Deploying a new FortiProxy VM

Refer to the [FortiProxy Public Cloud](#) or [FortiProxy Private Cloud](#) deployment guides for more information about how to deploy the FortiProxy VM on different public and private cloud platforms. Refer to [Product integration and support on page 8](#) for a list of supported VM platforms.



On ESXi 7.0 or later, you cannot deploy FortiProxy 7.0.20 directly. As a workaround, deploy FortiProxy 7.0.17 first and then upgrade to 7.0.20.

Upgrading the FortiProxy



- For FortiProxy appliances, you can upgrade from 7.0.x or 2.0.x to 7.0.20 directly.
 - For FortiProxy VMs, you can upgrade from 7.0.x or 2.0.6 or later to 7.0.20 directly. However, to upgrade from 2.0.5 or earlier to 7.0.20, additional backup and configuration is required as FortiProxy 2.0.6 introduced a new FortiProxy VM license file that cannot be used by earlier versions of the FortiProxy VM.
 - If Security Fabric is enabled, all FortiProxy units must be upgraded to the same version. For example, if Security Fabric is enabled in FortiProxy 7.0.20, all FortiProxy devices in the Security Fabric must run FortiProxy 7.0.20. Otherwise, some devices may get stale or disconnected from the root, resulting in issues with fabric logging and address synchronization.
-

To upgrade FortiProxy appliances from 7.0.x or 2.0.x to 7.0.20, or to upgrade FortiProxy VMs from 7.0.x or 2.0.6 or later to 7.0.20:

1. In the GUI, go to *System > Firmware*.
2. Click *Browse* in the *File Upload* tab.
3. Select the file on your PC and click *Open*.
4. Click *Confirm and Backup Config*.
5. Click *Continue*.
The configuration file is automatically saved and the system will reboot.
6. Click *Reset All Dashboards* in the GUI to avoid any issues with FortiView.

To upgrade a FortiProxy 2.0.5 VM to 7.0.20:

1. Back up the configuration from the GUI or CLI. Make sure the VM license file is stored on the PC or FTP or TFTP server.
2. Shut down the original VM.
3. Deploy the new VM. Make sure that there is at least 4 GB of memory to allocate to the VM.
4. From the VM console, configure the interface, routing, and DNS for GUI or CLI access to the new VM and its access to FortiGuard.
5. Upload the VM license file using the GUI or CLI.
6. Restore the configuration using the CLI or GUI.
7. Click *Reset All Dashboards* in the GUI to avoid any issues with FortiView.

Downgrading the FortiProxy



- For FortiProxy appliances, you can downgrade from 7.0.20 to 7.0.x or 2.0.x directly.
- For FortiProxy VMs, you can downgrade from 7.0.20 to 7.0.x or 2.0.6 or later directly. However, to downgrade from 7.0.20 to 2.0.5 or earlier, additional backup and configuration is required as FortiProxy 2.0.6 introduced a new FortiProxy VM license file that cannot be used by earlier versions of the FortiProxy VM.
- If Security Fabric is enabled, all FortiProxy units must be downgraded to the same version. For example, if Security Fabric is enabled in FortiProxy 7.0.20, all FortiProxy devices in the Security Fabric must run FortiProxy 7.0.20. Otherwise, some devices may get stale or disconnected from the root, resulting in issues with fabric logging and address synchronization.

To downgrade FortiProxy appliances from 7.0.20 to 7.0.x or 2.0.x, or to downgrade FortiProxy VMs from 7.0.20 to 2.0.6 or later:

1. In the GUI, go to *System > Firmware*.
2. Click *Browse* in the *File Upload* tab.
3. Select the file on your PC and click *Open*.
4. Click *Confirm and Backup Config*.
5. Click *Continue*.
The configuration file is automatically saved and the system will reboot.
6. Click *Reset All Dashboards* in the GUI to avoid any issues with FortiView.

To downgrade a FortiProxy 7.0.20 VM to FortiProxy 2.0.5 or earlier:

1. Back up the configuration from the GUI or CLI. Make sure the VM license file is stored on the PC or FTP or TFTP server.
2. Shut down the original VM.
3. Deploy the new VM. Make sure that there is at least 2 GB of memory to allocate to the VM.
4. From the VM console, configure the interface, routing, and DNS for GUI or CLI access to the new VM and its access to FortiGuard.
5. Upload the VM license file using the GUI or CLI
6. Restore the configuration using the CLI or GUI.
7. Click *Reset All Dashboards* in the GUI to avoid any issues with FortiView.

Downgrading FortiProxy 7.0.20 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

Resolved issues

The following issues have been fixed in FortiProxy 7.0.20. For inquiries about a particular bug, please contact [Customer Service & Support](#).

Bug ID	Description
1093060	Format string vulnerability in certificate import.
1092960	Format string vulnerability in FortiToken import.
1022667, 1086628	FTP fails to transfer file when preview is enabled in ICAP profile.
1096728	Continuous WAD crashing on Azure which affects some VIP traffic.
1101390	Proxy-address host address config update does not take effect.
1093606	Buffer overflow.

Common vulnerabilities and exposures

FortiProxy 7.0.20 is no longer vulnerable to the following CVE references. Visit <https://fortiguard.com/psirt> for more information.

Bug ID	CVE reference
1108891	CVE-2024-55591
1092960, 1093060	CVE-2024-45324

Known issues

FortiProxy 7.0.20 includes the known issues listed in this section. For inquiries about a particular issue, please contact [Fortinet Customer Service & Support](#).

Bug ID	Description
996825	scanunit application inside FortiProxy firmware crash.
979076	WAD worker health status is not alive after moving users to FortiProxy.
1017952	FPX-2000E automatically powers off.



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