



FortiWeb Release Notes

VERSION 6.4.1

FORTINET DOCUMENT LIBRARY

<https://docs.fortinet.com>

FORTINET VIDEO GUIDE

<https://video.fortinet.com>

FORTINET BLOG

<https://blog.fortinet.com>

CUSTOMER SERVICE & SUPPORT

<https://support.fortinet.com>

FORTINET COOKBOOK

<https://cookbook.fortinet.com>

FORTINET TRAINING & CERTIFICATION PROGRAM

<https://www.fortinet.com/support-and-training/training.html>

NSE INSTITUTE

<https://training.fortinet.com>

FORTIGUARD CENTER

<https://fortiguard.com/>

END USER LICENSE AGREEMENT

<https://www.fortinet.com/doc/legal/EULA.pdf>

FEEDBACK

Email: techdocs@fortinet.com

September 3, 2021

FortiWeb 6.4.1 Release Notes

1st Edition

TABLE OF CONTENTS

Introduction	4
What's new	5
Product Integration and Support	6
Upgrade instructions	8
Image checksums	8
Upgrading from previous releases	8
Repartitioning the hard disk	13
To use the special firmware image to repartition the operating system's disk	13
To repartition the operating system's disk without the special firmware image	14
Upgrading an HA cluster	15
Downgrading to a previous release	16
FortiWeb-VM license validation after upgrade from pre-5.4 version	16
Resolved issues	17
Known issues	19

Introduction

This document provides information about new and enhanced features, installation instructions, resolved issues, and known issues for FortiWeb 6.4.1, build 1464.

FortiWeb is a web application firewall (WAF) that protects hosted web applications from attacks that target known and unknown exploits. Using multi-layered and correlated detection methods, FortiWeb defends applications from known vulnerabilities and zero-day threats. The Web Application Security Service from FortiGuard Labs uses information based on the latest application vulnerabilities, bots, suspicious URL and data patterns, and specialized heuristic detection engines to keep your applications safe.

FortiWeb also offers a machine-learning function that enables it to automatically detect malicious web traffic. In addition to detecting known attacks, the feature can detect potential unknown zero-day attacks to provide real-time protection for web servers.

FortiWeb allows you to configure these features:

- Vulnerability scanning and patching
- IP reputation, web application attack signatures, credential stuffing defense, anti-virus, and FortiSandbox Cloud powered by FortiGuard
- Real-time attack insights and reporting with advanced visual analytics tools
- Integration with FortiGate and FortiSandbox for ATP detection
- Behavioral attack detection
- Advanced false positive and negative detection avoidance

FortiWeb hardware and virtual machine platforms are available for medium and large enterprises, as well as for service providers.

For additional documentation, please visit the FortiWeb documentation:

<http://docs.fortinet.com/fortiweb/>

What's new

New Hardware platforms

FortiWeb 2000F, 3000F, and 4000F are introduced in this release.

Form Based Delegation

FortiWeb now supports Form Based Delegation to publish web servers including OWA/Exchange (2010/2016). In Site Publish rule, you can select HTML Form Authentication as the Client Authentication Method, then choose Form Based Delegation as the Authentication Delegation.

URL Redirection after Site Publish authentication

It's now allowed to specify a redirection URL in Site Publish rule to redirect users to the URL after successfully authenticated.

SameSite attribute for Cookie Security

The SameSite attribute is supported in Cookie Security so that you can declare if your cookie should be restricted to a first-party or same-site context.

Maximum body cache increased

The maximum body cache size configured in **System > Config > Advanced** is increased from 4 MB to 10 MB.

Local certificate name length increased

Up to 192 characters are supported in the local certificate name.

Web Cache Improvements

When serving cached data to clients, FortiWeb now supports decompressing the data when it detects the client side does not support gzip.

HA Diff tool

HA Diff tool is introduced to compare the configuration difference between the primary and secondary nodes.

Debug support for additional modules

You can now run `diagnose debug application` to diagnose problems for more modules including:

- RBE/CAPTCHA (`rbe`)
- User Tracking (`user-tracking`)
- ADFS Proxy (`adfsproxy`)
- Web Cache (`web-cache`)
- Chunk Decoding (`chunk-decode`)
- Compression/Decompression (`compress-uncompress`)
- Acceleration (`web-acceleration`)

Product Integration and Support

Supported Hardware:

- FortiWeb 100D
- FortiWeb 400C
- FortiWeb 400D
- FortiWeb 400E
- FortiWeb 600D
- FortiWeb 600E
- FortiWeb 1000D
- FortiWeb 1000E
- FortiWeb 2000E
- FortiWeb 3000D/3000DFsx
- FortiWeb 3000E
- FortiWeb 3010E
- FortiWeb 4000D
- FortiWeb 4000E
- FortiWeb 100E
- FortiWeb 2000F
- FortiWeb 3000F
- FortiWeb 4000F

Supported hypervisor versions:

- VMware vSphere Hypervisor ESX/ESXi 4.0/4.1/5.0/5.1/5.5/6.0/6.5/6.7
- Citrix XenServer 6.2/6.5/7.1
- Open source Xen Project (Hypervisor) 4.9 and higher versions
- Microsoft Hyper-V (version 6.2 or higher, running on Windows 8 or higher, or Windows Server 2012/2016/2019)
- KVM (Linux kernel 2.6, 3.0, or 3.1)
- OpenStack Queens 17.0.5
- Docker Engine CE 18.09.1 or higher versions, and the equivalent Docker Engine EE versions; Ubuntu 18.04.1 LTS or higher versions
- Nutanix AHV

FortiWeb is tested and proved to function well on the hypervisor versions listed above. Later hypervisor releases may work but have not been tested yet.

To ensure high performance, it's recommended to deploy FortiWeb-VM on the machine types with minimum 2 vCPUs, and memory size larger than 8 GB.

Supported cloud platforms:

- AWS (Amazon Web Services)
- Microsoft Azure
- Google Cloud
- OCI (Oracle Cloud Infrastructure)
- Alibaba Cloud

Supported web browsers:

- Microsoft Edge 41
- Mozilla Firefox version 59
- Google Chrome version 65

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

Build-in AV engine version: 6.00137

Upgrade instructions

Image checksums

To verify the integrity of the firmware file, use a checksum tool to compute the firmware file's MD5 checksum. Compare it with the checksum indicated by Fortinet. If the checksums match, the file is intact.

MD5 checksums for software releases are available from Fortinet Customer Service & Support:

<https://support.fortinet.com>

To download the Customer Service & Support image checksum tool

After logging in to the website, in the menus at the top of the page, click **Download**, and then click **Firmware Image Checksums**.

Alternatively, near the bottom of the page, click the **Firmware Image Checksums** button. This button appears only if one or more of your devices has a current support contract. In the **File Name** field, enter the firmware image file name including its extension, then click **Get Checksum Code**.

Upgrading from previous releases



- For FortiWeb-VM with a license purchased earlier than February 2019, you must upgrade to 6.3.4 or higher. Do not use a lower patch.
- The VLAN, 802.3ad Aggregate, and Redundant interfaces are not supported anymore on FortiWeb-VMs deployed on public cloud platforms since 6.3.6. If you upgrade from versions earlier than that, these configurations will be removed.

To upgrade from FortiWeb 6.4.0

Upgrade directly.

To upgrade from FortiWeb 6.3.x

Upgrade directly.



The "Bad Robot" and "SQL Injection (Syntax Based Detection)" signatures had been integrated into WAF modules "Bot Mitigation > Known Bots" and "SQL/XSS Syntax Based Detection" since 6.3.3. If you upgrade from a version earlier than 6.3.3, all settings of these two signatures will be merged to corresponding modules except the exception list.

Make sure to **add the exception list manually** after the upgrade, otherwise certain traffic will be blocked unexpectedly because of the missing of the exception list.

To upgrade from FortiWeb 6.1.x and 6.2.x

Upgrade directly.

The machine learning data will be lost after the upgrade as the database format is enhanced in 6.3.0. Machine Learning will automatically start collecting data again after the upgrade.



For FortiWeb-VM on docker platform, it's not supported to upgrade to 6.4.1 from versions earlier than 6.3.0. You need to install FortiWeb-VM 6.4.1 instead of upgrading to 6.4.1. For how to install, see [FortiWeb-VM on docker](#).



The "Bad Robot" and "SQL Injection (Syntax Based Detection)" signatures had been integrated into WAF modules "Bot Mitigation > Known Bots" and "SQL/XSS Syntax Based Detection" since 6.3.3. If you upgrade from a version earlier than 6.3.3, all settings of these two signatures will be merged to corresponding modules except the exception list.

Make sure to **add the exception list manually** after the upgrade, otherwise certain traffic will be blocked unexpectedly because of the missing of the exception list.

To upgrade from FortiWeb 6.0 or 6.0.x

Upgrade directly.

After the upgrade:

- If you upgrade from 6.0, there might be database compatibility issue after the upgrade, because the MarisDB database version is upgraded to 10.3.8 since FortiWeb 6.0.2.
 - Run `get system status` to check the Database Status.
 - If it shows `Available`, it means the database works well. If it shows `Not Available`, you need to run `execute db rebuild` to solve the database compatibility issue. Please note in HA mode running `execute db rebuild` on primary appliance will take effect on all secondary appliances simultaneously.
- If you upgrade from 6.0.1, it's not necessary to run `execute db rebuild` because the database format has already been enhanced in 6.0.1, so that it's compatible with the new database.



The machine learning data will be lost after the upgrade as the database format is enhanced in 6.3.0. Machine Learning will automatically start collecting data again after the upgrade.



For FortiWeb-VM on docker platform, it's not supported to upgrade to 6.4.1 from versions earlier than 6.3.0. You need to install FortiWeb-VM 6.4.1 instead of upgrading to 6.4.1. For how to install, see [FortiWeb-VM on docker](#).



The "Bad Robot" and "SQL Injection (Syntax Based Detection)" signatures had been integrated into WAF modules "Bot Mitigation > Known Bots" and "SQL/XSS Syntax Based Detection" since 6.3.3. If you upgrade from a version earlier than 6.3.3, all settings of these two signatures will be merged to corresponding modules except the exception list.

Make sure to **add the exception list manually** after the upgrade, otherwise certain traffic will be blocked unexpectedly because of the missing of the exception list.

To upgrade from FortiWeb 5.5.x, 5.6.x, 5.7.x, 5.8.x, or 5.9.x

Before the upgrade:

- If you upgrade from a version of FortiWeb previous to 5.9.0 on Azure platform, first change the addressing mode to DHCP in **System > Network > Interface**, then upgrade to FortiWeb 6.1.1, because FortiWeb on Azure platform has enforced the DHCP addressing mode since release 5.9.0.

After the upgrade:

- There might be database compatibility issue after the upgrade, because the MarisDB database version is upgraded to 10.3.8 since FortiWeb 6.0.2.
 - Run `get system status` to check the Database Status.
 - If it shows `Available`, it means the database works well. If it shows `Not Available`, you need to run `execute db rebuild` to solve the database compatibility issue. Please note in HA mode, running `execute db rebuild` on primary appliance will take effect on all secondary appliances simultaneously.



If you upgrade from a version of FortiWeb previous to 5.5.4, the upgrade process deletes any HTTP content routing policies that match X509 certificate content. You can re-create these policies using the new, enhanced X509 certificate settings.



The "Bad Robot" and "SQL Injection (Syntax Based Detection)" signatures had been integrated into WAF modules "Bot Mitigation > Known Bots" and "SQL/XSS Syntax Based Detection" since 6.3.3. If you upgrade from a version earlier than 6.3.3, all settings of these two signatures will be merged to corresponding modules except the exception list.

Make sure to **add the exception list manually** after the upgrade, otherwise certain traffic will be blocked unexpectedly because of the missing of the exception list.

To upgrade from FortiWeb 5.4.x

Before the upgrade:

- Resize your FortiWeb hard disk partitions. See [Repartitioning the hard disk](#).

After the upgrade:

- There might be database compatibility issue after the upgrade, because the MarisDB database version is upgraded to 10.3.8 since FortiWeb 6.0.2.
 - Run `get system status` to check the Database Status.
 - If it shows `Available`, it means the database works well. If it shows `Not Available`, you need to run `execute db rebuild` to solve the database compatibility issue. Please note in HA mode, running `execute db rebuild` on primary appliance will take effect on all secondary appliances simultaneously.



The upgrade process deletes any HTTP content routing policies that match X509 certificate content. You can re-create these policies using the new, enhanced X509 certificate settings.



The "Bad Robot" and "SQL Injection (Syntax Based Detection)" signatures had been integrated into WAF modules "Bot Mitigation > Known Bots" and "SQL/XSS Syntax Based Detection" since 6.3.3. If you upgrade from a version earlier than 6.3.3, all settings of these two signatures will be merged to corresponding modules except the exception list.

Make sure to **add the exception list manually** after the upgrade, otherwise certain traffic will be blocked unexpectedly because of the missing of the exception list.

To upgrade from FortiWeb 5.3.x

Before the upgrade:

- Resize your FortiWeb hard disk partitions. See [Repartitioning the hard disk](#).

After the upgrade:

- There might be database compatibility issue after the upgrade, because the MarisDB database version is upgraded to 10.3.8 since FortiWeb 6.0.2.
 - Run `get system status` to check the Database Status.
 - If it shows `Available`, it means the database works well. If it shows `Not Available`, you need to run `execute db rebuild` to solve the database compatibility issue. Please note in HA mode, running `execute db rebuild` on primary appliance will take effect on all secondary appliances simultaneously.



- If you are upgrading FortiWeb-VM on a hypervisor other than VMware vSphere, see [FortiWeb-VM license validation after upgrade from pre-5.4 version](#).
- The upgrade process deletes any HTTP content routing policies that match X509 certificate content. You can re-create these policies using the new, enhanced X509 certificate settings.
- If you upgrade from a version of FortiWeb previous to 5.3.4 and your server policy configuration includes settings that customize an attack blocking or server unavailable error page, the upgrade deletes these server-based settings. The functionality is replaced by the global, default FortiWeb pages.
- If you upgrade from a version of FortiWeb previous to 5.3.6, the upgrade process deletes any V-zone IP addresses, which are no longer required. This operation has no impact on routing or connectivity after the upgrade.



The "Bad Robot" and "SQL Injection (Syntax Based Detection)" signatures had been integrated into WAF modules "Bot Mitigation > Known Bots" and "SQL/XSS Syntax Based Detection" since 6.3.3. If you upgrade from a version earlier than 6.3.3, all settings of these two signatures will be merged to corresponding modules except the exception list.

Make sure to **add the exception list manually** after the upgrade, otherwise certain traffic will be blocked unexpectedly because of the missing of the exception list.

To upgrade from a version previous to FortiWeb 5.3

FWB5.3.exe is a Microsoft Windows executable script that automatically migrates your FortiWeb 5.2.x configuration settings to a 5.3.x configuration.

1. If your version is 5.0.x or 5.1.x, upgrade to FortiWeb 5.2.x.
2. Use **System > Maintenance > Backup & Restore** to back up your FortiWeb configuration. Fortinet recommends that you use the **Backup entire** configuration option.
Note: If you forget to back up the configuration before you upgrade to FortiWeb 5.3, you can use the **Boot into alternate firmware** option to downgrade to the previous version, and then backup its configuration. For details, see the *FortiWeb Administration Guide*:
<http://docs.fortinet.com/fortiweb/admin-guides>
3. To obtain the upgrade script, log in to the Fortinet Customer Service & Support website:
<https://support.fortinet.com>
 In the menus at the top of the page, click **Download**, and then click **Firmware Images**.
4. For product, select **FortiWeb**. Then, on the Download tab, navigate to the following folder:
 /FortiWeb/v5.00/5.3/Upgrade_script/
5. Download the .zip compressed archive (for example, FWB5.3Upgrade_v1.9.zip) to a location you can access from your Windows PC.
6. In Windows, extract the .zip archive's contents, and then use a command line interface to execute the upgrade script.
 For example, in the directory where the file FWB5.3Upgrade.exe and your backup configuration file are located, execute the following command:

```
FWB5.3Upgrade.exe -i YOUR_CONFIG_NAME.conf -o 5.3_new.conf
```

 The script removes the Domain Server, Physical Server, Server Farm, Content Routing policy configurations and generates a new configuration file named 5.3_new.conf.
7. Resize your FortiWeb hard disk partitions. See [Repartitioning the hard disk](#).
8. Upgrade to 6.3.9 first, then upgrade to 6.4.1.
9. Use **System > Maintenance > Backup & Restore** to restore the configuration file you created using the script (for example, 5.3_new.conf).
10. There might be database compatibility issue after the upgrade, because the MarisDB database version is upgraded to 10.3.8 since FortiWeb 6.0.2:
 - Run `get system status` to check the Database Status.
 - If it shows `Available`, it means the database works well. If it shows `Not Available`, you need to run `execute db rebuild` to solve the database compatibility issue. Please note in HA mode, running `execute db rebuild` on primary appliance will take effect on all secondary appliances simultaneously.



- If you are upgrading FortiWeb-VM on a hypervisor other than VMware vSphere, see [FortiWeb-VM license validation after upgrade from pre-5.4 version](#).
- The upgrade process deletes any HTTP content routing policies that match X509 certificate content. You can re-create these policies using the new, enhanced X509 certificate settings.
- If your server policy configuration includes settings that customize an attack blocking or server unavailable error page, the upgrade deletes these server-based settings. The functionality is replaced by the global, default FortiWeb pages.
- The upgrade process deletes any V-zone IP addresses, which are no longer required. This operation has no impact on routing or connectivity after the upgrade.



The "Bad Robot" and "SQL Injection (Syntax Based Detection)" signatures had been integrated into WAF modules "Bot Mitigation > Known Bots" and "SQL/XSS Syntax Based Detection" since 6.3.3. If you upgrade from a version earlier than 6.3.3, all settings of these two signatures will be merged to corresponding modules except the exception list.

Make sure to **add the exception list manually** after the upgrade, otherwise certain traffic will be blocked unexpectedly because of the missing of the exception list.

Note: To upgrade from 4.0 MR4, Patch x or earlier, please contact Fortinet Technical Support.

Repartitioning the hard disk

To upgrade from a version of FortiWeb previous to 5.5, you must first resize your FortiWeb operating system's disk.

In most cases, you'll have to install a special firmware image to repartition the disk. For details, see [To use the special firmware image to repartition the operating system's disk on page 13](#).

For the following FortiWeb-VM tools, you cannot install the special firmware image to repartition the hard disk:

- Citrix XenServer
- Open-source Xen Project
- Microsoft Hyper-V
- KVM

For these platforms, to repartition the disk you must deploy a new virtual machine and restore the configuration and log data you backed up earlier. See [To repartition the operating system's disk without the special firmware image on page 14](#).



Repartitioning affects the operating system's disk (USB/flash disk), not the hard disk. Existing data such as reports and event, traffic, and attack logs, which are on the hard disk, are not affected.

You can use this image to upgrade an HA cluster by following the same procedure you use for a regular firmware upgrade. For details, see "Updating firmware on an HA pair" in the *FortiWeb Administration Guide*:

<http://docs.fortinet.com/fortiweb/admin-guides>

To use the special firmware image to repartition the operating system's disk

1. Perform a complete backup of your FortiWeb configuration.
Although the repartitioning firmware image automatically saves your FortiWeb configuration, Fortinet recommends that you also manually back it up. For details, see the *FortiWeb Administration Guide*:
<http://docs.fortinet.com/fortiweb/admin-guides>
2. Contact Fortinet Technical Support to obtain the special repartitioning firmware image: special build 5.4.1, build 6066.
3. Follow one of the same procedures that you use to install or upgrade firmware using a standard image:

- In the Web UI, go to **System > Status > Status**. Locate the **System Information** widget. Beside **Firmware Version**, click **[Update]**.
- In the Web UI, go to **System > Maintenance > Backup & Restore**. Select the **Restore** option in **System Configuration**.
- In the CLI, enter the `execute restore config` command.

FortiWeb backs up the current configuration, resizes the hard drive partitions, and boots the system.

Continue with the instructions in [Upgrading from previous releases on page 8](#).

To repartition the operating system's disk without the special firmware image

1. Perform a complete backup of your FortiWeb configuration. For details, see the *FortiWeb Administration Guide*: <http://docs.fortinet.com/fortiweb/admin-guides>
2. Use the instructions for your hypervisor platform to detach the log disk from the VM:
 - [To detach the log disk from a Citrix XenServer VM on page 14](#)
 - [To detach the log disk from a Microsoft Hyper-V VM on page 14](#)
 - [To detach the log disk from a KVM VM on page 14](#)
3. Deploy a new FortiWeb 5.5 or later virtual machine on the same platform.
4. Use the instructions for your hypervisor platform to attach the log disk you detached earlier to the new VM:
 - [To attach the log disk to a Citrix XenServer VM on page 15](#)
 - [To attach the log disk to a Microsoft Hyper-V VM on page 15](#)
 - [To attach the log disk to a KVM VM on page 15](#)
5. Restore the configuration you backed up earlier to the new VM.
6. When you are sure that the new VM is working properly with the required configuration and log data, delete the old VM.

To detach the log disk from a Citrix XenServer VM

1. In Citrix XenCenter, connect to the VM.
2. In the settings for the VM, on the Storage tab, select **Hard disk 2**, and then click **Properties**.
3. For **Description**, enter a new description, and then click **OK**.
4. Select **Hard disk 2** again, and then click **Detach**.
5. Click **Yes** to confirm the detach task.

To detach the log disk from a Microsoft Hyper-V VM

1. In the Hyper-V Manager, select the FortiWeb-VM in the list of machines, and then, under **Actions**, click **Settings**.
2. Select **Hard Drive (data.vhd)**, and then click **Remove**.
3. Click **Apply**.

To detach the log disk from a KVM VM

1. In Virtual Machine Manager, double-click the FortiWeb-VM in the list of machines.
2. Click **Show virtual hardware details** (the "i" button).
3. Click **VirtIO Disk 2**, and then click **Remove**.

To attach the log disk to a Citrix XenServer VM

1. In Citrix XenCenter, connect to the VM.
2. In the settings for the new, FortiWeb 5.5 or later VM, on the Storage tab, select **Hard disk 2**, and then click **Delete**.
3. Click **Yes** to confirm the deletion.
4. On the Storage tab, click **Attach Disk**.
5. Navigate to the hard disk you detached from the old VM to attach it.
6. Start your new virtual machine.

To attach the log disk to a Microsoft Hyper-V VM

1. In the Hyper-V Manager, select the new, FortiWeb 5.5 or later virtual machine in the list of machines, and then, under Actions, click **Settings**.
2. Select **Hard Drive (log.vhd)**, and then click **Browse**.
3. Browse to the hard drive you detached from the old virtual machine to select it.
4. Click **Apply**.
5. Start the new virtual machine.

To attach the log disk to a KVM VM

For KVM deployments, you remove an existing virtual disk from the new VM before you attach the disk detached from the original VM.

1. In Virtual Machine Manager, double-click the new, FortiWeb 5.5 or later VM in the list of machines.
2. Click **Show virtual hardware details** (the "i" button).
3. Click **VirtIO Disk 2**, and then click **Remove**.
4. Click **Add Hardware**.
5. Click **Storage**, select **Select managed or other existing storage**, and then click **Browse**.
6. Click **Browse Local**.
7. Navigate to the log disk file for the original machine to select it, and then click **Open**.
8. For **Device type**, select **Virtio disk**, for **Storage format**, select **qcow2**, and then click **Finish**.
9. Start the new virtual machine.

Upgrading an HA cluster

If the HA cluster is running FortiWeb 4.0 MR4 or later, the HA cluster upgrade is streamlined. When you upgrade the active appliance, it automatically upgrades any standby appliance(s), too; no manual intervention is required to upgrade the other appliance(s). This includes upgrading using the special hard disk repartitioning firmware image for upgrading to 5.5 or later from earlier releases.

If the HA cluster is running FortiWeb 4.0 MR3 Patch x or earlier, contact Fortinet Technical Support for assistance.

Downgrading to a previous release

When you downgrade to version 5.1 or 5.0, the basic configuration for your appliance's connections to the network (e.g., IP address and route configuration) is preserved.

Please note that the machine learning data will be lost if you downgrade to versions lower than 6.2.0. It cannot be recovered because the database architecture is changed since 6.2.0.

FortiWeb-VM license validation after upgrade from pre-5.4 version

On some virtual machine deployments, upgrading FortiWeb-VM from a version previous to 5.4 changes the virtual machine's universal unique identifier (UUID). Because of this change, the first time you upload your existing FortiWeb-VM license, the FortiGuard Distribution Network (FDN) server reports that it is invalid.

To solve this problem, after you have uploaded the license, wait 90 minutes, and then upload the license again.

This issue does not affect FortiWeb-VM deployed on a VMware vSphere hypervisor.

Resolved issues

This section lists issues that have been fixed in version 6.4.1. For inquiries about a particular bug, please contact Fortinet Customer Service & Support:

<https://support.fortinet.com>

Bug ID	Description
0740477/0728936	vdom for letsencrypt is not supported when updating certificate status and logging event.
0739455/0739267	Components are missing in HSTS configuration, values incorrect and word usage wrong.
0738652	FortiWeb does not support the .mkv file type in file upload security.
0738174	FortiWeb is not blocking SQL Injection and Extended SQL completely because it does not decode arg when request use multipart/form-data.
0737678	The scheduled report wrongly shows logs that are not generated in the specified time period.
0737677	view alog from master GUI, Filter and Log Management work abnormal
0737453	Proxy crashes when the read API is used in the middle of the insert flag API operations to insert and set the flag, returning an nCfg_query error in the multithread code.
0737286	If the URI of the redirect in HA > Topology is too long, the filters and attack logs may not show correctly in the primary node's Web UI.
0735456	MITB protection policy may cause failure on parameter validation policy.
0735337	ServerPolicy: some TCP parameter should be adjusted due to kernel change.
0735035	Uninitialized variable in Brotli uncompression function causing garbage data to be added to uncompressed page when a brotli compressed web resource of 1 byte is sent.
0732195	The configuration of signature category does not support ADD/DELETE operation.
0731745	CMDB crash occurs unexpectedly.
0730833	The system becomes unstable after the WSDL and XSD files are uploaded.
0730439	Unable to get any logs at all through GUI, and the CPU usage keeps at extreme value.
0728133	On docker platform, the Geo IP list shows null instead of countries.
0726891	Content Route entries display issue.

Bug ID	Description
0726697	PHP WebShell scripts are not detected
0726635	CPU reaches 100% when there are more than 64K opened connections from FortiWeb to a single backend server IP:port.
0724947	WAD UI loads slowly because disk calculating is disabled.
0724723	FortiWeb fails to load the CRL after import because CRL response with http header of "Transfer-encoding: chunked" is not supported.
0723868	"Internal Resource Limits : (Internal Logic Error)" occurs because parser can't handle head request with data when response includes 100-conitue.
0723742	Unable to configure Bot Mitigation policy in Offline Web Protection profiles.
0722302	Unable to access the secondary device in Active-Active HA mode because the API conf_init and conf_end have memory leak.
0721020	The ".svg" file uploads are blocked.
0719975	The time field in log doesn't reflect timezone setting.
0719623	High memory due to [Proxyd, ML, Mysqld].
0714929	The proxyd and kernel may crash due to core file error.
0711655	After upgrading to 6.4.0, the HA active-active standard mode is changed to active-active high volume mode on cloud platforms.
0693896	Total HTTP transactions and throughput does not accurate.
0693822	Unable to view HA Topology after upgrade to 6.3.10.
0664998	The view/edit (eye) icon in Web UI is missing on multiple pages after upgrading to 6.3.6.

Common Vulnerabilities and Exposures

For more information, visit <https://www.fortiguard.com/psirt>.

Bug ID	CVE reference
0743973	FortiWeb VERSION 6.4.1 is no longer vulnerable to the following CVE-Reference: CVE-2021-22122.
0742829/0742492	FortiWeb VERSION 6.4.1 is no longer vulnerable to the following CWE-Reference: CWE-77.
0704204/0702594	FortiWeb VERSION 6.4.1 is no longer vulnerable to the following CWE-Reference: CWE-79.
0702987	FortiWeb VERSION 6.4.1 is no longer vulnerable to the following CWE-Reference: CWE-400.
0702593	FortiWeb VERSION 6.4.1 is no longer vulnerable to the following CWE-Reference: CWE-121.

Known issues

This section lists known issues in version 6.4.1, but may not be a complete list. For inquiries about a particular bug, please contact Fortinet Customer Service & Support: <https://support.fortinet.com>

Bug ID	Description
0744232	FortiWeb can't detect signature attack when websocket data is masked or compressed.
0744090	When setting down the offline data capture port, the error message "This interface is managed by DPDK..." displays, and the link status shows down.
0743982	Unable to display the settings of the report profile filter "Message(s)" if the value contains space characters.
0743946	Console prints error regularly when 4000F is in offline mode.
0743357	Crash may occur on the F-series without doing any operation.
0740577	Letsencrypt certificate status is failed when trying using it with SNI.
0740291	Websocket traffic is blocked unexpectedly.
0727693	Email Policy configuration can be viewed and edited by any Adom Administrator.
0689010	Many reports are stuck and are titled "undefined".



Copyright© 2021 Fortinet, Inc. All rights reserved. Fortinet®, FortiGate®, FortiCare® and FortiGuard®, and certain other marks are registered trademarks of Fortinet, Inc., in the U.S. and other jurisdictions, and other Fortinet names herein may also be registered and/or common law trademarks of Fortinet. All other product or company names may be trademarks of their respective owners. Performance and other metrics contained herein were attained in internal lab tests under ideal conditions, and actual performance and other results may vary. Network variables, different network environments and other conditions may affect performance results. Nothing herein represents any binding commitment by Fortinet, and Fortinet disclaims all warranties, whether express or implied, except to the extent Fortinet enters a binding written contract, signed by Fortinet's General Counsel, with a purchaser that expressly warrants that the identified product will perform according to certain expressly-identified performance metrics and, in such event, only the specific performance metrics expressly identified in such binding written contract shall be binding on Fortinet. For absolute clarity, any such warranty will be limited to performance in the same ideal conditions as in Fortinet's internal lab tests. In no event does Fortinet make any commitment related to future deliverables, features or development, and circumstances may change such that any forward-looking statements herein are not accurate. Fortinet disclaims in full any covenants, representations, and guarantees pursuant hereto, whether express or implied. Fortinet reserves the right to change, modify, transfer, or otherwise revise this publication without notice, and the most current version of the publication shall be applicable.