



FortiWeb Release Notes

VERSION 6.3.9

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Introduction

This document provides information about new and enhanced features, installation instructions, resolved issues, and known issues for FortiWeb 6.3.9, build 1117.

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

Enhancements

Browsing experience enhanced to quickly locate WAF rules/policies in long lists

A search box is added on the following WAF module pages for you to quickly filter out the desired items:

- Custom Policy
- HTTP Protocol Constraint
- X-Forwarded-For
- SQL/XSS Syntax Based Detection
- File Security
- Cookie Security Policy
- HTTP Content Routing Policy
- Server Health Check

Restricting access based on missing headers

You can now restrict access when requests exclude a specific HTTP Header. It can be configured in **Advanced Protection > Custom Rules**.

Changes

Recommended memory size for FortiWeb-VM

Fortinet is recommending all its customers to use a minimum of 8 GB RAM for FortiWeb-VM, regardless of vCPUs configured. This is to address average configuration using the growing features added to the product.

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

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.

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 6.3.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 6.3.9 from versions earlier than 6.3.0. You need to install FortiWeb-VM 6.3.9 instead of upgrading to 6.3.9. 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

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 master appliance will take effect on all slaves 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 6.3.9 from versions earlier than 6.3.0. You need to install FortiWeb-VM 6.3.9 instead of upgrading to 6.3.9. 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 master appliance will take effect on all slaves 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 master appliance will take effect on all slaves 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 master appliance will take effect on all slaves 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 FortiWeb 6.1.1.
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 master appliance will take effect on all slaves 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 14](#).

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 15](#)
 - [To detach the log disk from a KVM VM on page 15](#)
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 6.3.9. For inquiries about a particular bug, please contact Fortinet Customer Service & Support:

<https://support.fortinet.com>

Bug ID	Description
0680608	Nonexistent directory errors are observed after FortiWeb is upgraded to v6.3.8, which might lead to some unexpected errors in NAT feature.
0675424	For FortiWeb-VM with invalid license, the hamain daemon will not initialize the HA mode to kernel.
0674542	When IPv4&IPv6 addresses are both configured for VIP, FortiWeb does not check IPv6 address duplication.
0672986	CSS decoding on cookie line may cause proxyd crash.
0672625	Chunked multi-part file upload may sometimes cause proxyd crash.
0671992/0662686	On WAF module pages, it's difficult to locate to a specific item when the list is long
0671646/0669474	Even Retry On is not enabled in server policy, packets can be allocated for it sometimes, which will trigger memory leakage.
0670770	When the file name length exceeds 63 characters, the file name will be truncated and the extension of the file name will be lost.
0669970	Executing <code>diagnose system perf</code> crashes the CLI interface. Hitting any key always prints the "Mapped keys" help text.
0669873	FortiWeb's GUI is inaccessible after being upgraded to 6.3.7 because the wrong certificate is used.
0668608	Fail to import SAML IDP metadata.
0668438	Unable to upload PKCS12 certificates without password.
0668058	"CLI internal error" is returned after injection of invalid input in SAML Server configuration.
0667671	- The "HTTP Illegal Header" state in signature is not disabled, which causes traffic to be blocked wrongly. - Certain legitimate traffic is falsely blocked SQL/XSS Syntax Based Detection. - When the content-type is octet-stream, the file name is not parsed.
0666853	The OID type is Counter32, which causes counter-type values to monotonously increase.
0666846	Signature exception window is not expanded correctly.
0665664	Memory leakage occurs when processing HTTP sessions.

Bug ID	Description
0662802/0662329	FortiWeb blocks websites using latest Chrome versions 85.0.x. This is caused by a conflict between this new version and one of the FortiWeb's signatures.
0662657	Incorrect file upload limit displayed in GUI.
0660166	Certain characters in the input can inject original payload, which causes FortiWeb to be vulnerable.
0656122	Powering on HA slave node takes all services down, because the hamain daemon doesn't set the real HA mode to kernel.
0644899	Application is inaccessible intermittently because there is a crash about stream free.
0643366	CRL Entry is expired and not recovered until <code>crl_updatedb</code> is killed.

Common Vulnerabilities and Exposures

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

Bug ID	CVE reference
0669225	FortiWeb 6.3.9 is no longer vulnerable to the following CVE-Reference: CVE-2013-3587
0661378	FortiWeb 6.3.9 is no longer vulnerable to the following CWE-Reference: CWE-122: Heap-based Buffer Overflow.
0660478	FortiWeb 6.3.9 is no longer vulnerable to the following CWE-Reference: CWE-89: Improper Neutralization of Special Elements used in an SQL Command ("SQL Injection").

Known issues

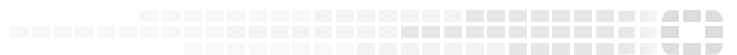
This section lists known issues in version 6.3.9, but may not be a complete list. For inquiries about a particular bug, please contact Fortinet Customer Service & Support:

<https://support.fortinet.com>

Bug ID	Description
0678071	The "last upgrade time" in GUI upgrade section may be shown as "-" in some circumstances after upgrading FortiWeb image.
0672652	After FortiWeb 3000E loads more than 400 policies, the memory usage reaches 98%, while the same configuration in 3000D only consumes 58%.
0672647	The Action filter in event log doesn't work as expected with certain actions.
0669657	The logs sent from FortiWeb are being bundled together when TLS is enabled for syslog server.
0668210	Memory usage is more than 70% without any high load processes running.
0665507	The exception list of WAF signatures under "Bad Robot" and "SQL Injection (Syntax Based Detection)" will be lost if you upgrade from a version earlier than 6.3.3.
0656630	Network > Packet Capture: the selected packet capture page automatically flushes and the capture item fails to be deleted.
0656002	The <code>diagnose debug flow filter client-ip/server-ip</code> function fails to work well for <code>http-detail/session-detail</code> .
0604053	FortiWeb 100D devices reboot for unknown reasons in rare cases.
0597351	In machine learning, for certain domain types with multiple patterns, it costs very long time to finish the sample collection.
0596000	Users with privileges to a certain ADOM can access contents restricted to other ADOMs through CLI.
0578585	In active-active high volume HA mode, if the physical port IP address and the VIP address are in the same network segment, the physical port's mac address instead of the VIP's mac address will be learned by the switch.
0556301	FortiWeb responds with different TCP ports when running <code>sudo nmap</code> towards a physical interface.



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