



FortiSandbox - Release Notes

Version 3.2.2

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FortiSandbox 3.2.2 Release Notes

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Change Log

Date	Change Description
2020-12-17	Initial release.
2021-07-08	Added Common vulnerabilities and exposures on page 13 .
2021-07-27	Updated supported FortiManager versions in Product Integration and Support on page 10 .
2021-08-04	Updated Resolved Issues on page 12 .
2021-09-08	Updated Resolved Issues on page 12 .

Introduction

This document provides the following information for FortiSandbox version 3.2.2 build 0237.

- [Supported models](#)
- [New features and enhancements](#)
- [Upgrade Information](#)
- [Product Integration and Support](#)
- [Resolved Issues](#)
- [Known Issues](#)

For more information on upgrading your FortiSandbox device, see the *FortiSandbox 3.2.2 Administration Guide* and *FortiSandbox 3.2.2 VM Install Guide*.

Supported models

FortiSandbox version 3.2.2 supports the FSA-500F, FSA-1000D, FSA-1000F, FSA-2000E, FSA-3000D, FSA-3500D, FSA-3000E, and FSA-VM (AWS, Azure, Hyper-V, KVM, and VMware ESXi) models.

New features and enhancements

The following is a list of new features and enhancements in version 3.2.2:

- Enhanced FN/FP sample submission with the added info and forward that directly to fsa_submit@fortinet.com.
- Enhanced Job Report to include *Sender* and *Subject* info on BCC Adapter submission.
- Extended LDAP Group attribute length to 511 characters.
- Added a `tac-report cli` command to collectively run diagnose CLI commands for monitoring and troubleshooting.
- Support large file size upload via RPC.

Upgrade Information

Before and after any firmware upgrade

Before any firmware upgrade, save a copy of your FortiSandbox configuration by going to *Dashboard > System Configuration > Backup*.

After any firmware upgrade, if you are using the web UI, clear the browser cache before logging into FortiSandbox so that web UI screens display properly.

Upgrade path

FortiSandbox 3.2.2 officially supports the following upgrade path.

Upgrade from	Upgrade to
3.2.0–3.2.1	3.2.2
3.1.4	3.2.0
3.0.6–3.1.3	3.1.4
2.5.2–3.0.5	3.0.6
2.4.1–2.5.1	2.5.2
2.4.0	2.4.1



If you are using KVM or Hyper-V, the upgrade path must be 3.1.3 > 3.2.0 > 3.2.2. As with all VM upgrades, take a snapshot or make a checkpoint before upgrading.



After upgrading, FortiSandbox might stop processing files until the latest rating engine is installed either by FDN update or manually. The rating engine is large so schedule time for the download.

Every time FortiSandbox boots up, it checks FDN for the latest rating engine.

If the rating engine is not available or out-of-date, you get these notifications:

- A warning message informs you that you must have an updated rating engine.
- The *Dashboard System Information* widget displays a red blinking *No Rating Engine* message besides *Unit Type*.

If necessary, you can manually download an engine package from [Fortinet Customer Service & Support](#).

If the rating engine is not available or out-of-date, FortiSandbox functions in the following ways:

- FortiSandbox still accepts on-demand, network share, and RPC submissions, but all jobs are pending.
- FortiSandbox does not accept new devices or FortiClients.
- FortiSandbox does not accept new submissions from Sniffer, Device, FortiClient, or Adapter.

Firmware image checksums

The MD5 checksums for all Fortinet software and firmware releases are available at the Fortinet Customer Service & Support portal located at <https://support.fortinet.com>. After logging in select *Download > Firmware Image Checksums*, enter the image file name including the extension, and select *Get Checksum Code*.

Upgrading cluster environments

Before upgrading, it is highly recommended that you set up a cluster IP set so the failover between primary (master) and secondary (primary slave) can occur smoothly.

In a cluster environment, use this upgrade order:

1. Upgrade the workers (regular slaves) and install the new rating engine. Then wait until the devices fully boot up.
2. Upgrade the secondary (primary slave) and install the new rating engine. Then wait until the device fully boots up.
3. Upgrade the primary (master). This causes HA failover.
4. Install the new rating engine on the old primary (master) node. This node might take over as primary (master) node.

Upgrade procedure



When upgrading from 3.1.0 or later and the new firmware is ready, you will see a blinking *New firmware available* link on the dashboard. Click the link and you will be redirected to a page where you can either choose to download and install an available firmware or manually upload a new firmware.

Upgrading FortiSandbox firmware consists of the following steps:

1. Download the firmware image from the [Fortinet Customer Service & Support](#) portal.
2. When upgrading via the CLI, put the firmware image on a host that supports file copy with the SCP or FTP command. The FortiSandbox must be able to access the SCP or FTP server.
In a console window, enter the following command string to download and install the firmware image:
`fw-upgrade -b -s<SCP/FTP server IP address> -u<user name> -t<ftp|scp> -f<file path>`
3. When upgrading via the Web UI, go to *System > Dashboard*. In the *System Information* widget, click the *Update* link next to *Firmware Version*. The Firmware Upgrade page is displayed. Browse to the firmware image on the management computer and select the *Submit* button.

4. Microsoft Windows Sandbox VMs must be activated against the Microsoft activation server if they have not been already. This is done automatically after a system reboot. To ensure the activation is successful, port3 of the system must be able to access the Internet and the DNS servers should be able to resolve the Microsoft activation servers.

Downgrading to previous firmware versions

Downgrading to previous firmware versions is not supported.

FortiSandbox VM firmware

Fortinet provides FortiSandbox VM firmware images for VMware ESXi, Hyper-V, Nutanix, and Kernel Virtual Machine (KVM) virtualization environments.



For more information, see the VM Installation Guide in the [Fortinet Document Library](#).

Product Integration and Support

The following table lists FortiSandbox 3.2.2 product integration and support information.

Web browsers	<ul style="list-style-type: none">• Microsoft Edge version 86• Mozilla Firefox version 82• Google Chrome version 87 Other web browsers may function correctly but are not supported by Fortinet.
FortiOS/FortiOS Carrier	<ul style="list-style-type: none">• 6.4.0 and later• 6.2.0 and later• 6.0.0 and later• 5.6.0 and later
FortiAnalyzer	<ul style="list-style-type: none">• 6.4.0 and later• 6.2.0 and later• 6.0.0 and later• 5.6.0 and later• 5.4.0 and later
FortiManager	<ul style="list-style-type: none">• 7.0.0 and later• 6.4.6 and later
FortiADC	<ul style="list-style-type: none">• 6.0.0 and later• 5.4.0 and later• 5.3.0 and later• 5.0.1 and later
FortiClient	<ul style="list-style-type: none">• 6.4.0 and later• 6.2.0 and later• 6.0.1 and later• 5.6.0 and later
FortiEMS	<ul style="list-style-type: none">• 6.4.0 and later• 6.2.0 and later• 6.0.5 and later
FortiMail	<ul style="list-style-type: none">• 6.4.0 and later• 6.2.0 and later• 6.0.0 and later• 5.4.0 and later
FortiProxy	<ul style="list-style-type: none">• 2.0.0• 1.2.3 and later
FortiWeb	<ul style="list-style-type: none">• 6.3.5• 6.3.2 and later• 6.2.0 and later• 6.0.0 and later

	<ul style="list-style-type: none">• 5.8.0 and later• 5.6.0 and later
AV engine	<ul style="list-style-type: none">• 6.250
Tracer engine	<ul style="list-style-type: none">• 03002.00022
System tool	<ul style="list-style-type: none">• 03002.00048
Traffic sniffer	<ul style="list-style-type: none">• 4.00036
Virtualization environment	<ul style="list-style-type: none">• VMware ESXi: 5.1, 5.5, 6.0, 6.5, 6.7, and 7.0.1.• KVM: Linux version 4.15.0 qemu-img v2.5.0• Microsoft Hyper-V: Windows server 2016 and 2019

Resolved Issues

The following issues have been fixed in FortiSandbox 3.2.2. For inquiries about a particular bug, contact [Customer Service & Support](#).

Fabric Integration

Bug ID	Description
658449	Fixed package version numbering displaying incorrectly in FortiClient.
645576	Fixed RPC login issue when configured with LDAP wildcard.

GUI

Bug ID	Description
673310	Fixed download report issue on Report Center when using Firefox.
680767	Fixed handling of special characters on password for the logon page.
664851	Fixed incorrectly recommended firmware in the auto-upgrade GUI page.
648183	Improved loading response time of the Job Details web page.

Scan

Bug ID	Description
624697	Fixed clone number configuration issue that prevents adding more clones.
666104	Fixed Job Verdict of parent URL when child URL is rated not clean.
655941, 658574, 662178	Fixed NetShare scan stability.
649198	Fixed reboot and slowness issue of VM scan on Hyper-V platform.
671147	Fixed some cases of missing job details on the Job Scan Report.
673901	Fixed wrong rating issue on URL submission from FortiMail.

System & Security

Bug ID	Description
662826	Fixed accepted version on TLS for GUI.
644642	Fixed downloading VM image issue when proxy is used.
681816	Fixed failed upgrade issue of worker node on the primary of a HA cluster.
658816	Fixed failed upgrade on Hyper-V environment.
667509	Fixed rescue mode feature on Hyper-V.
659652	Changed internal configuration sync logs to debug level to filter out on secondary node's event logs.
678332	Rename <code>admin-pwd-reset</code> CLI command to <code>reset-admin-pwd</code> .

Common vulnerabilities and exposures

Bug ID	Description
670283	FortiSandbox 3.2.2 is no longer vulnerable to the following CVE Reference: <ul style="list-style-type: none">• CVE-2021-22125
675152	FortiSandbox 3.2.2 is no longer vulnerable to the following CVE Reference: <ul style="list-style-type: none">• CVE-2020-29014
672978 672979	FortiSandbox 3.2.2 is no longer vulnerable to the following CVE Reference: <ul style="list-style-type: none">• CVE-2021-22124
672977	FortiSandbox 3.2.2 is no longer vulnerable to the following CVE Reference: <ul style="list-style-type: none">• CVE-2020-29011
633086	FortiSandbox 3.2.2 is no longer vulnerable to the following CVE Reference: <ul style="list-style-type: none">• CVE-2020-15939
672976	FortiSandbox 3.2.2 is no longer vulnerable to the following CVE Reference: <ul style="list-style-type: none">• CVE-2020-29013
633044	FortiSandbox 3.2.2 is no longer vulnerable to the following CVE Reference: <ul style="list-style-type: none">• CVE-2020-29012

Known Issues

The following issues have been identified in FortiSandbox 3.2.2. For inquiries about a particular bug or to report a bug, contact [Customer Service & Support](#).

Scan

Bug ID	Description
653559	The guest mouse pointer is misaligned in Interactive mode.
672997	Sniffer mode fails to extract user-defined file type 'eml' from the traffic.
677043	Sniffer mode incorrectly extracts the URL in some cases.
682154	Missing job details info due to retention policy discrepancies caused by heavy load.

System & Security

Bug ID	Description
681038	Small footprint of memory leak on prescan daemon.



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