

Release Notes

FortiSandbox 4.0.2



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FortiSandbox 4.0.2 Release Notes

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Change Log

Date	Change Description
2021-12-02	Initial release.
2021-12-28	Updated Known Issues on page 15
2022-02-17	Updated New features and enhancements on page 6 and Product Integration and Support on page 11 .
2022-11-15	Added Special Notices on page 7 .
2022-11-16	Updated Known Issues on page 15 .
2023-03-20	Updated Upgrade Information on page 8 .

Introduction

This document provides the following information for FortiSandbox version 4.0.2 build 0074.

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

For more information on upgrading your FortiSandbox device, see the *FortiSandbox 4.0.2 Administration Guide* and *FortiSandbox 4.0.2 VM Install Guide*.

Supported models

FortiSandbox version 4.0.2 supports the FSA-3000F, FSA-3000E, FSA-2000E, FSA-1000F-DC, FSA-1000F, FSA-500F, and FSA-VM (AWS, Azure, Hyper-V, KVM, and VMware ESXi) models.



As of version 4.0.0., the following models are no longer supported: FSA-3500D, FSA-3000D, FSA-1000D, and VM Base.

New features and enhancements

The following is summary of new features and enhancements in version 4.0.2. For details, see the [FortiSandbox 4.0.2 Administration Guide](#) in the [Fortinet Document Library](#).

GUI

- Enhanced performance related widgets on the dashboard.
- Displayed Fortinet logo and firmware version.
- Extended FP/FN submission feature on URLs.
- Added configuration to exclude password on downloaded job file/package.

Fabric integration

- Extended instant types on FortiSandbox AWS with Elastic Network Adapter (ENA) support.

Scan

- Extended ICAP feature to support "PUT" method.
- Upgraded Yara engine and added Magic module.

System & Security

- Supported Hot-Standby VM feature on FortiSandbox AWS and Azure.
- Upgraded JQuery library to latest stable version.

CLI

- Supported hard disk size expansion on FortiSandbox AWS and Azure. (CLI: `resize-hd`)

Special Notices

Downloading signatures from FortiManager

Due to a change in protocol information in FortiManager v7.0.5 and later, FortiSandbox v4.0.2 cannot retrieve database updates.

To work around this issue, upgrade FortiSandbox to v4.2.2 or higher.

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 4.0.2 officially supports the following upgrade path.

Upgrade from	Upgrade to	Notes
4.0.0-4.0.1	4.0.2	After upgrading a HA-Cluster from 4.0.0 or 4.0.1 to 4.0.2, re-configure the password for LDAP/RADIUS server on the new secondary node.
3.2.4	4.0.2	Not supported on 4.0.1 Upgrade to latest patch release of 4.0
3.2.3	4.0.2	
3.2.0-3.2.2	3.2.3	
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, then follow the upgrade table.

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 4.0.2 product integration and support information.

Web browsers	<ul style="list-style-type: none">• Microsoft Edge version 95• Mozilla Firefox version 94• Google Chrome version 95 Other web browsers may function correctly but are not supported by Fortinet.
FortiOS/FortiOS Carrier	<ul style="list-style-type: none">• 7.0.0 and later• 6.4.0 and later• 6.2.0 and later• 6.0.0 and later
FortiAnalyzer	<ul style="list-style-type: none">• 7.0.0 and later• 6.4.0 and later• 6.2.0 and later• 6.0.0 and later• 5.6.0 and later
FortiManager	<ul style="list-style-type: none">• 7.0.0 and later• 6.4.6 and later• 6.2.1 and later• 6.0.0 and later• 5.6.0 and later
FortiMail	<ul style="list-style-type: none">• 7.0.0 and later• 6.4.0 and later• 6.2.0 and later• 6.0.0 and later• 5.4.0 and later
FortiClient	<ul style="list-style-type: none">• 7.0.0 and later• 6.4.0 and later• 6.2.0 and later• 6.0.1 and later• 5.6.0 and later
FortiClient EMS	<ul style="list-style-type: none">• 7.0.0 and later• 6.4.0 and later• 6.2.0 and later• 6.0.5 and later
FortiADC	<ul style="list-style-type: none">• 6.2.0 and later• 6.1.0 and later• 6.0.0 and later

	<ul style="list-style-type: none"> • 5.4.0 and later • 5.3.0 and later • 5.0.1 and later
FortiProxy	<ul style="list-style-type: none"> • 7.0.0 and later • 2.0.0 and later • 1.2.3 and later
FortiWeb	<ul style="list-style-type: none"> • 6.4.0 and later • 6.3.5 and later • 6.3.2 and later • 6.2.0 and later • 6.0.0 and later
AV engine	<ul style="list-style-type: none"> • 6.00266
Tracer engine	<ul style="list-style-type: none"> • 4000.00009
YARA engine	<ul style="list-style-type: none"> • Version available upon request from Technical Support team.
System tool	<ul style="list-style-type: none"> • 4000.00106
Traffic sniffer	<ul style="list-style-type: none"> • 00004.00036
Virtualization environment	<ul style="list-style-type: none"> • VMware ESXi: 7.0.1, 6.7, 6.5, 6.0, 5.5, and 5.1 • KVM: Linux 4.15.0 qemu-img 2.5.0 • Microsoft Hyper-V: Windows server 2019 and 2016

Resolved Issues

The following issues have been fixed in FortiSandbox 4.0.2. For inquiries about a particular bug, contact [Customer Service & Support](#).

GUI

Bug ID	Description
726685	Fixed a flickering screen issue during Interaction Scan.

Fabric integration

Bug ID	Description
731107	Fixed incorrect disk usage on CLI of FortiSandbox in Azure.
757185	Fixed portal connectivity issue on FortiSandbox in Azure.

Scan

Bug ID	Description
716617	Fixed a VM timeout issue on Win10 clone due to incompatibility with a few host's CPU.
728025	Fixed improper use of URL safelist on the Network Share scan.
746427	Fixed routing issue on FTP traffic during static scan.
747072	Fixed scan performance when website is unreachable.
758767	Fixed scan performance due to processing delays on iterations.

System & Security

Bug ID	Description
742300	Fixed booting hang issue after executing factory-reset.
754931	Fixed LDAP bind password sync issue in HA-Cluster environment.
761582	Fixed licensing issue after applying the perpetual-based Custom-VM license.

Logging & Reporting

Bug ID	Description
743507	Fixed truncated <code>usr</code> and <code>emailrcvr</code> log fields by extending its length.

Known Issues

The following issues have been identified in FortiSandbox 4.0.2. For inquiries about a particular bug or to report a bug, contact [Customer Service & Support](#).

HA Cluster

Bug ID	Description
694610	Issues about cluster external/internal interface

Logging & Reporting

Bug ID	Description
710656	Scheduled detailed report randomly fails to send.

System & Security

Bug ID	Description
575345	Known Memory Yara setting is not supported on backup/restore.

Fabric Integration

Bug ID	Description
790423	FortiSandbox fails to download packages from FortiManager. For details, see Special Notices on page 7 .



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