

# Release Notes

## FortiSandbox 4.2.4



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FortiSandbox 4.2.4 Release Notes

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# Change Log

Date	Change Description
2023-03-01	Initial release.
2023-03-22	Updated <a href="#">Known Issues on page 15</a>

# Introduction

This document provides the following information for FortiSandbox version 4.2.4 build 0261.

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

For more information on upgrading your FortiSandbox device, see the *FortiSandbox 4.2.4 Administration Guide* and *FortiSandbox 4.2.4 VM Install Guide*.

## Supported models

FortiSandbox	FSA-3000F, FSA-3000E, FSA-2000E, FSA-1000F-DC, FSA-1000F, and FSA-500F
FortiSandbox-VM	AWS, Azure, Hyper-V, KVM, and VMware ESXi



This version no longer supports FSA-1000D, FSA-3000D, FSA-3500D, and VM Base as of version 4.0.0.

# New features and enhancements

The following is summary of new features and enhancements in version 4.2.4. For details, see the [FortiSandbox4.2.4 Administration Guide](#) in the [Fortinet Document Library](#).

## Fabric integration

- Enhanced request mode of ICAP adapter to support application/octet-stream.

# Special Notices

## Scan Profile

After upgrading to 4.2.4 the *VM Association* in the *Scan Profile* changes the CSV extension category from *User defined extension* to *Office Documents* as intended. When a CSV file is scanned by the VM, the CSV file type is displayed as *userdefined* in the *Job Detail*.

### To work around this issue after upgrade:

1. Go to *Scan Policy and Object > Scan profile*.
2. Click the *VM Association* tab and remove *csv* from the *Office documents category*.
3. Click *Save*.
4. Add *csv* back to the *Office documents category* and click *Save*.
5. Submit a *csv* file to be scanned. The file type will display '*csv*' in the *Job Detail*.

## Upgrade path

A feature that was introduced in FortiSandbox v4.2.0 causes a critical bug that only affects FSA-1000F, FSA-500F and VM after upgrading to v4.2.1. We strongly recommend that customers who have upgraded to v4.2.1 upgrade to v4.2.4. Customers upgrading from v4.2.0 should upgrade to 4.2.4.

# 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*.

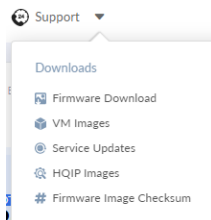
After any firmware upgrade, if you are using the web UI, clear the browser cache before logging into FortiSandbox so that web UI screens display properly.

## Tracer and Rating Engines

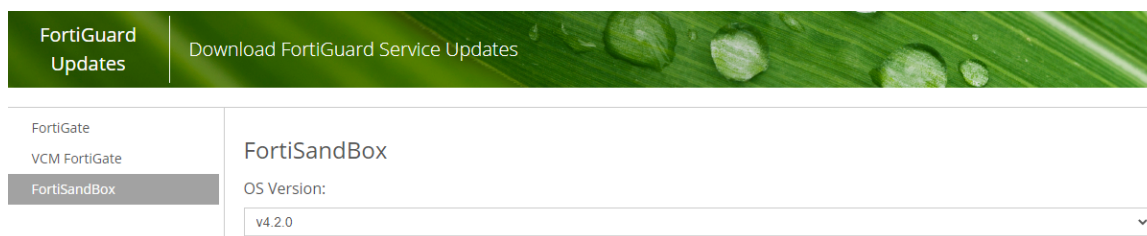
The tracer and rating engines are automatically downloaded by the FortiSandbox from FortiGuard. For air-gapped mode, the engines are available for download from our Support site.

To download the latest engine:

1. Log in to [FortiCloud](#).
2. In the banner, click *Support > Service Updates*.



3. On the *FortiGuard Updates* page, click *FortiSandbox* and select the OS version.



## Upgrade path

FortiSandbox 4.2.4 officially supports the following upgrade path.

Upgrade from	Upgrade to
4.2.0 – 4.2.3	4.2.4
4.0.0 – 4.0.2	4.2.0
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 and tracer engine. Then wait until the devices fully boot up.
2. Upgrade the secondary (primary slave) and install the new rating and tracer engine. Then wait until the device fully boots up.
3. Upgrade the primary (master). This causes HA failover.
4. Install the new rating and tracer 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.

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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 4.2.4 product integration and support information.

<b>Web browsers</b>	<ul style="list-style-type: none"><li>• Microsoft Edge version 110</li><li>• Mozilla Firefox version 109</li><li>• Google Chrome version 110</li></ul> Other web browsers may function correctly but are not supported by Fortinet.
<b>FortiOS/FortiOS Carrier</b>	<ul style="list-style-type: none"><li>• 7.2.0 and later</li><li>• 7.0.0 and later</li><li>• 6.4.0 and later</li><li>• 6.2.0 and later</li><li>• 6.0.0 and later</li><li>• 5.6.0 and later</li></ul>
<b>FortiAnalyzer</b>	<ul style="list-style-type: none"><li>• 7.2.0 and later</li><li>• 7.0.0 and later</li><li>• 6.4.0 and later</li><li>• 6.2.0 and later</li><li>• 6.0.0 and later</li><li>• 5.6.0 and later</li><li>• 5.4.0 and later</li></ul>
<b>FortiManager</b>	<ul style="list-style-type: none"><li>• 7.2.0 and later</li><li>• 7.0.0 and later</li><li>• 6.4.0 and later</li><li>• 6.2.1 and later</li><li>• 6.0.0 and later</li><li>• 5.6.0 and later</li><li>• 5.4.0 and later</li></ul>
<b>FortiMail</b>	<ul style="list-style-type: none"><li>• 7.2.0 and later</li><li>• 7.0.0 and later</li><li>• 6.4.0 and later</li><li>• 6.2.0 and later</li><li>• 6.0.0 and later</li><li>• 5.4.0 and later</li></ul>
<b>FortiClient</b>	<ul style="list-style-type: none"><li>• 7.2.0</li><li>• 7.0.0 and later</li><li>• 6.4.0 and later</li><li>• 6.2.0 and later</li><li>• 6.0.1 and later</li><li>• 5.6.0 and later</li></ul>

<b>FortiEMS</b>	<ul style="list-style-type: none"><li>• 7.2.0</li><li>• 7.0.0 and later</li><li>• 6.4.0 and later</li><li>• 6.2.0 and later</li><li>• 6.0.5 and later</li></ul>
<b>FortiADC</b>	<ul style="list-style-type: none"><li>• 7.2.0</li><li>• 7.1.0 and 7.1.1</li><li>• 7.0.0 and 7.0.3</li><li>• 6.2.0 and later</li><li>• 6.1.0 and later</li><li>• 6.0.0 and later</li><li>• 5.4.0 and later</li><li>• 5.3.0 and later</li><li>• 5.0.1 and later</li></ul>
<b>FortiProxy</b>	<ul style="list-style-type: none"><li>• 7.2.1 and later</li><li>• 7.0.0 and later</li><li>• 2.0.0 and later</li><li>• 1.2.3 and later</li></ul>
<b>FortiWeb</b>	<ul style="list-style-type: none"><li>• 7.2.0</li><li>• 7.0.0 and later</li><li>• 6.4.0 and later</li><li>• 6.3.5 and later</li><li>• 6.3.2 and later</li><li>• 6.2.0 and later</li><li>• 6.0.0 and later</li><li>• 5.8.0 and later</li><li>• 5.6.0 and later</li></ul>
<b>Fortisolator</b>	<ul style="list-style-type: none"><li>• 2.4.2</li></ul>
<b>AV engine</b>	<ul style="list-style-type: none"><li>• 00006.00285</li></ul>
<b>System tool</b>	<ul style="list-style-type: none"><li>• 04002.00042</li></ul>
<b>Traffic sniffer</b>	<ul style="list-style-type: none"><li>• 00007.00138</li></ul>
<b>Virtualization environment</b>	<ul style="list-style-type: none"><li>• VMware ESXi<ul style="list-style-type: none"><li>• Intel CPU server: 5.1, 5.5, 6.0, 6.5, 6.7, and 7.0.1</li><li>• AMD CPU server: 6.7 and 7.0.1</li></ul></li><li>• KVM: Linux version 4.15.0 qemu-img v2.5.0</li><li>• Microsoft Hyper-V Windows server 2016, 2019, and 2022</li></ul>

# Resolved Issues

The following issues have been fixed in FortiSandbox 4.2.4. For inquiries about a particular bug, contact [Customer Service & Support](#).

## GUI

Bug ID	Description
864237	Fixed Local VM clone count when CloudVM is used.
871484	Fixed a few counter issues on the <i>Security Fabric</i> device page for FortiGate.
877216	Fixed file download feature on job detail page due to invalid characters.

## Scan

Bug ID	Description
868205	Enhanced return code for Inline Block deployment to support drop files for unsupported file format.
876901	Fixed a legacy duplicate response on Malware package that impacts FortiSandbox performance.
882869	Fixed a legacy behavior that impacts FortiSandbox performance when FortiGate queries unexisting file.

## System & Security

Bug ID	Description
857120	Fixed DNS traffic flow issue for VM traffic to correctly traverse on port3.
862927	Fixed RAMDISK high usage issue on FSA-2000E.

# Known Issues

The following issues have been identified in FortiSandbox 4.2.4. For inquiries about a particular bug or to report a bug, contact [Customer Service & Support](#).

## Fabric Integration

Bug ID	Description
810164	ICAP Adapter issue with McAfee Web Gateway responding with 'No Content'

## Logging & Reporting

Bug ID	Description
785274	Wrong filename and service info on the <i>Job details</i> of extracted files from FTP traffic via Sniffer mode.

## Scan

Bug ID	Description
822024	Unsupported ISO file in UDF 2.5 format not extracted and launched.

## System & Security

Bug ID	Description
818441	Failover sync issue on HA-Secondary unit due to unique certificate.



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