

# FortiSandbox - Release Notes

Version 2.5.1

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FortiSandbox 2.5.1 Release Notes

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# Change Log

Date	Change Description
2018-01-17	Initial release.
2018-01-26	Added FortiAnalyzer 5.6.2 support to <i>Product Integration &amp; Support</i> .
2018-03-19	Corrected VM00 link.

# Introduction

This document provides the following information for FortiSandbox version 2.5.1 build 0329:

- [Supported models](#)
- [What's new in FortiSandbox 2.5.1](#)
- [Upgrade Information](#)
- [Product Integration and Support](#)
- [Resolved Issues](#)
- [Known Issues](#)

For more information on upgrading your FortiSandbox device, see the *FortiSandbox 2.5.1 Administration Guide*.

## Supported models

FortiSandbox version 2.5.1 supports the FSA-1000D, FSA-2000E, FSA-3000D, FSA-3500D, FSA-3000E, and FSA-VM (VMware ESXi and KVM) models.

## What's new in FortiSandbox 2.5.1

The following is a list of new features in version 2.5.1:

- Support file limitation on the FortiMail domains

The following is a list of enhancements in version 2.5.1:

- Added OFTP conserve mode
- Scan the file submitted from On Demand URL scan if the URL is a download link.

# Special Notices

## FortiSandbox 3000E Port Labelling

FortiSandbox 3000E units with a serial number in the following ranges have their port 5 and port 6 reversed. The ports on the back of the unit from left to right should read 6 and 5.

- FSA3KE3R16000039 and less
- FSA3KE3R17000014 and less

# 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 prior to login on the FortiSandbox unit to ensure proper display of the web UI screens.

## Upgrading to 2.5.1

FortiSandbox 2.5.1 officially supports upgrading from version 2.3.3, 2.4.0, 2.4.1, and 2.5.0 to 2.5.1.

When upgrading from version 2.3.0 and 2.3.2, it is required to upgrade to 2.3.3 first, then to 2.5.1.

When upgrading from version 2.2.1 and below, the required upgrade path is: 2.2.2 > 2.3.0 > 2.3.3 > 2.5.1.



After upgrading to v2.5.0, admin users with *read* or *device* level privilege will match to the default admin profile *Read Only* or *Device*. By default, those two admin profiles do not have the *Download original file* and *JSON API* permissions enabled. Users need to manually add them back if needed.

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## Upgrading Cluster Environments



In a cluster environment, it is recommended to upgrade the cluster in the following order:

1. Slave devices
2. Primary Slave
3. Master

Upgrade a unit after the previous one fully boots up. After upgrade, it is highly recommended to setup a cluster level fail-over IP set, so the fail-over between Master and Primary Slave can occur smoothly.

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## Upgrade procedure

Upgrading FortiSandbox firmware consists of the following steps:

## Step 1: Upgrade the firmware

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> - p<password> -t<ftp|scp> -  
f<file path>
```
3. When upgrading via the Web-based Manager, 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.

## Step 2: Install Microsoft Windows VM package

If the unit does not have a Microsoft Windows VM package installed, they can be installed manually.



By default, FortiSandbox supports a base package of 4 Windows VM images.

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### To manually download the package:

#### 1. FSA-1000D, FSA-3000D, and FSA-VM-BASE models:

Download the package from [ftp://fsavm.fortinet.net/images/v2.00/general\\_base.pkg](ftp://fsavm.fortinet.net/images/v2.00/general_base.pkg)

#### FSA-2000E model:

Download the package from [ftp://fsavm.fortinet.net/images/v2.00/2000E\\_base.pkg](ftp://fsavm.fortinet.net/images/v2.00/2000E_base.pkg)

#### FSA-3500D model:

Download the package from [ftp://fsavm.fortinet.net/images/v2.00/3500D\\_base.pkg](ftp://fsavm.fortinet.net/images/v2.00/3500D_base.pkg)

#### FSA-3000E:

Download the package from [ftp://fsavm.fortinet.net/images/v2.00/3000E\\_base.pkg](ftp://fsavm.fortinet.net/images/v2.00/3000E_base.pkg)

#### FSA-VM00:

Download the package from [ftp://fsavm.fortinet.net/images/v2.00/VM00\\_base.pkg](ftp://fsavm.fortinet.net/images/v2.00/VM00_base.pkg)

Users can also purchase, download and install extra Android, Windows 8.1 and Windows 10 image packages. These packages can be downloaded from:

#### Android:

Download the package from <ftp://fsavm.fortinet.net/images/v2.00/AndroidVM.pkg.7z>

#### Windows 8.1:

Download the package from <ftp://fsavm.fortinet.net/images/v2.00/WIN81VM.pkg.7z>

#### Windows 10:

Download the package from <ftp://fsavm.fortinet.net/images/v2.00/WIN10VM.pkg.7z>



**MD5 File:**

Download the package from <ftp://fsavm.fortinet.net/images/v2.00/md5.txt>

2. Put the package 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.
3. In a console window, enter the following command string to download and install the package:

```
fw-upgrade -v -s<SCP/FTP server IP address> -u<user name> -p<password> -t<ftp|scp> -  
f<file path>
```

### Step 3: Install the Microsoft Office license file

1. If the unit has no Office license file installed, download the Microsoft Office license file from the [Fortinet Customer Service & Support](#) portal.
2. Log into the FortiSandbox and go to *System > Dashboard*. In the *System Information* widget, click the *Upload License* link next to Microsoft Office. The *Microsoft Office License Upload* page is displayed. Browse to the license file on the management computer and select the *Submit* button. The system will reboot.
3. The Microsoft Office license must be activated against the Microsoft activation server. This is done automatically after a system reboot. To ensure the activation is successful, port3 must be able to access the Internet and the DNS servers should be able to resolve the Microsoft activation servers.



For FSA-3000D and FSA-1000D specific models, contact Fortinet Customer Service & Support to obtain the license file.

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### Step 4: Install Windows 8.1 or Windows 10 license files

1. If user purchases Windows 8.1 or Windows 10 support, download the Windows license file from the [Fortinet Customer Service & Support](#) portal
2. Log into FortiSandbox and go to *System > Dashboard*. In the *System Information* widget, click the *Upload License* link next to *Windows VM* field. The *Microsoft VM License Upload* page is displayed. Browse to the license file on the management computer and click the *Submit* button. The system will reboot.
3. The Microsoft Windows license must be activated against the Microsoft activation server. This is done automatically after a system reboot. To ensure the activation is successful, port3 must be able to access the Internet and the DNS servers should be able to resolve the Microsoft activation servers. Network configurations for port3 can be configure on the *Scan Policy > General* page.

### Step 5: Check system settings

After upgrading, from a version prior to 2.2.0, the following settings should be checked in order for system to work as expected

1. Check *Network > System Routing* page and *Network > System DNS* page to make sure the static routing and DNS settings are correct for non-guest VM traffic. As port3 is reserved for guest VM traffic, all existing static routings on port3 should be removed.
2. Check *Scan Policy > General* to make sure the next hop Gateway, proxy server and DNS settings are correct for guest VM images to communicate externally.
3. Check *Virtual Machine > VM Images* page to make sure the clone number of each VM type is expected.

4. Check *Scan Policy > Scan Profile* page to make sure each file type is scanned by the correct VM type.
5. Go to *Scan Policy > URL Category* page to make sure the checked URL categories should be excluded from the malicious list.
6. Go to *Log & Report > Log Servers* to make sure the log servers are receiving expected levels of logs.



When upgrading from a previous release, the database will be rebuilt. The *Database Not Ready* message will be displayed on web pages. The rebuild time depends on the existing data volume.

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## 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 and Kernel Virtual Machine (KVM) virtualization environments.



More detailed information can be found in the VM Installation Guide, which is available on the [Fortinet Document Library](#).

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## 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*.

# Product Integration and Support

## FortiSandbox 2.5.1 support

The following table lists FortiSandbox version 2.5.1 product integration and support information.

<b>Web Browsers</b>	<ul style="list-style-type: none"><li>• Microsoft Internet Explorer version 11</li><li>• Mozilla Firefox version 54</li><li>• Google Chrome version 59</li></ul> Other web browsers may function correctly, but are not supported by Fortinet.
<b>FortiAnalyzer</b>	<ul style="list-style-type: none"><li>• 5.0.8 and later</li><li>• 5.2.0 and later</li><li>• 5.4.0 and later</li><li>• 5.6.2</li></ul>
<b>FortiClient</b>	<ul style="list-style-type: none"><li>• 5.4.0 and later</li><li>• 5.6.0</li></ul> <b>Note:</b> Starting from FSA 2.5, FCT 5.6.0 and below devices will be automatically authorized.
<b>FortiMail</b>	<ul style="list-style-type: none"><li>• 5.4.0 and later</li><li>• 5.3.0 and later</li></ul>
<b>FortiManager</b>	<ul style="list-style-type: none"><li>• 5.0.8 and later</li><li>• 5.2.0 and later</li><li>• 5.4.0 and later</li><li>• 5.6.2</li></ul>
<b>FortiOS/FortiOS Carrier</b>	<ul style="list-style-type: none"><li>• 5.0.4 and later</li><li>• 5.2.0 and later</li><li>• 5.4.0 and later</li><li>• 5.6.0 and later</li></ul>
<b>FortiWeb</b>	<ul style="list-style-type: none"><li>• 5.4.0 and later</li></ul>
<b>Virtualization Environment</b>	<ul style="list-style-type: none"><li>• VMware ESXi 5.1, 5.5, or 6.0 and later</li><li>• KVM</li></ul>

# Resolved Issues

The following issues have been fixed in version 2.5.1. For inquiries about a particular bug, please contact [Customer Service & Support](#).

## Resolved issues

Bug ID	Description
417227	Remove RC4 set from the cipher list for SSH.
457281	URLs stayed in pending forever after URL detection disabled .
457369	VM initialization keeps going to process due to no disk space on device.
457373	Files were dropped by quard due to configuration changes on both Fortigate and Fortisandbox.
457516	OFTPD hangs sometimes when handling SIGUSR2 signal.
458246	Re-run FortiGuard server IP lookup when service status changes.
458544	<code>admin</code> users may lose CLI or GUI access after upgrading in HC mode.
459335	The default admin user's untrusted hosts setting is disabled.
459700	Domains not being protected by FE may be listed as a device.
460167	<i>Threats by Topology</i> does not load when there are special characters.
461258	Rename <i>Cloud Server</i> to <i>Community Cloud s\Server</i> .
461491	Loaded clone# should be 0 when file scan is disabled on HC master.
461674	Pending job keeps increasing after fabric connection were disconnected.
464973	.eml files are not extracted for scan.
465164	Displayed <i>Critical Logs</i> in the dashboard <i>Critical Log Widget</i> does not match with its setting.
467340	FSA is sending constant stream of HTTP traffic to <code>www.iso-volta.com</code> from Port3.

# Known Issues

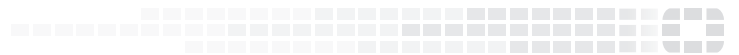
The following are the known issues that have been identified in version 2.5.1. For inquiries about a particular bug or to report a bug, please contact [Customer Service & Support](#).

## Known issues

Bug ID	Description
466475	URL rating in file should consider the Black/White list and defined benign URL category.
467333	FortiMail connections may be reset randomly.
467359	HC should not send jobs to members when their Windows clones are all 0.
467539	Black/White lists tab is broken after uploading .doc file.



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