Forcepoint

V Series, X Series, and Virtual Appliance 8.5.x

Upgrade Guide

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Introduction

- V Series, X Series, and Virtual Appliances can be upgraded directly to v8.5.0 from v8.1.x, v8.2.x, v8.3.x. or v8.4.x.
- V Series, X Series, and Virtual Appliances can be upgraded directly to v8.5.3 from v8.2.x, v8.3.x., v8.4.x, or 8.5.0.
- V Series, X Series, and Virtual Appliances can be upgraded directly to v8.5.4 from v8.4.x, 8.5.0, or 8.5.3.
- V Series, X Series, and Virtual Appliances can be upgraded directly to v8.5.5 from v8.4.x, 8.5.0, 8.5.3, or 8.5.4.



Important

When performing the upgrade, always start with the Forcepoint solution upgrade guide.

- Upgrading web protection solutions
- Upgrading email protection solutions

Starting with v8.3.0, a single ISO image (v8.x.x Unified Appliance Installer) is offered to restore an appliance back to the factory settings as well as to upgrade all installed modules in the target appliance to the corresponding version.

Modules include:

App — Base appliance infrastructure and appliance controller

Forcepoint Web Security:

- Web Forcepoint Web Security core components
- Proxy Content Gateway web proxy

Forcepoint Email Security:

Email — Forcepoint Email Security core components

To upgrade an appliance prior to 8.3.0, the legacy RPM upgrade package is required. Refer to the dedicated upgrade guide for V Series or X Series appliances.

Important

The upgrade process is designed for appliances running in a functional deployment. Required network interfaces must have reliable connections to Forcepoint components and the Internet.

Upgrading does not repair a non-functional system.



Important

Service disruption during upgrade

Appliance services are not available while the upgrade is applied, continuing until the appliance completes its final restart.

Service is not disrupted while the off-box components are upgraded.



Important

v8.5.0 is the last supported software release for the V5K G2R2 appliance and the V10K G3R1 appliance.

Hardware support will continue to be available throughout End-of-Life for these appliance models. Please refer to related Tech Alert and official product life-cycle matrix for details.



Important

v8.5.3 is the last supported software release for the V5KG3, V10KG3R2, and X10GG1 appliances.

Hardware support will continue to be available throughout End-of-Life for these appliance models. Please refer to related Tech Alert and official product life-cycle matrix for details.



Important

If you are currently using link aggregation and plan to enable VLAN support after upgrade, disable link aggregation before enabling VLAN support on the blade or chassis.

VLAN is only available on X-series appliances.



Important

Forcepoint V5000 G2R2 Appliance customers may encounter a memory shortage after upgrading to version 8.2 or later. This issue is the result of newer versions of software requiring additional memory, and was only captured under a very heavy load. A DIMM Kit (2 x 8GB) is certified to expand the physical memory of the V5000 G2R2 Appliance. It is now generally available and recommended for V5000 G2R2 deployment moving to versions 8.2 and later. Please contact your sales representatives for purchase information. For more details, see the related Knowledge Base article and the DIMM Kit installation instructions.



Important

Forcepoint V5000 G2R2 customers upgrading from v8.3 to v8.5 must uninstall 8.3 Appliance Hotfix 12 (APP- 8.3.0-012) if it is installed. The upgrade will automatically include the necessary resolution, so no other hotfix is needed.



Important

Forcepoint V5000 G2R2 customers upgrading from v8.4.0 to v8.5.0 must install 8.4 Appliance Hotfix 101 (APP- 8.4.0-101) before upgrading.



Important

Any appliance with Hotfix 200 (Spectre/Meltdown Hotfix) installed must uninstall the hotfix before upgrading to v8.5.0. After upgrading, Hotfix 200 must be reinstalled on the new version.

Summary of upgrade procedure

Perform Pre-upgrade activities.

If you are upgrading a deployment that includes Forcepoint Web Security, upgrade the Full policy source machine (Policy Broker/Policy Database). If the Full policy source is located on an off-appliance server, follow the instructions in Upgrade Instructions for Forcepoint Web Security. If the Full policy source machine is an X10G, upgrade that blade first.



Important

All Forcepoint components on the Full policy source machine are upgraded when Policy Broker and Policy Database are upgraded.

The upgraded Policy Broker and Policy Database services must be running and available for appliance upgrades to succeed.

Steps

- Download the upgrade package and install it.
- Perform Post-upgrade activities.
- Upgrade the Forcepoint management server (if not upgraded when Policy Broker/Policy Database were upgraded), and other servers that host Forcepoint components.
 For detailed, step-by-step instructions, see Upgrade procedure.

Related concepts

Pre-upgrade activities on page 5 Post-upgrade activities on page 8

Related tasks

Upgrade procedure on page 6

Rollback

When the upgrade is applied, the original file system is preserved. Should the upgrade procedure experience a fatal error, the original file system is restored. Note that off-appliance components may need to be restarted.

Pre-upgrade activities

Before applying the v8.5.x upgrade, perform the following tasks and be aware of the following issues.

If you are not already familiar with the preparation required for upgrade of off-appliance components, review those requirements before upgrading your appliances.

- For web protection solutions, see Before upgrading v8.5.x web protection solutions and the latest Forcepoint Web Protection Release Notes.
- For Forcepoint Email Security, see Upgrading email protection solutions and the latest Forcepoint Email Security Release Notes.

Before upgrading, see either the V Series Appliances Certified Product Matrix or the X Series Appliances Certified Product Matrix to determine the correct BIOS version. If necessary, upgrade the BIOS before upgrading the appliance.

Inventory customizations



Important

Customizations are not retained through the upgrade process.

Before upgrading, inventory all customizations and make a plan for restoring any that are required.

Customizations can include:

- Hand updated files
- Extra packages added
- Extra files added, binary or configuration

Post-upgrade, Forcepoint Technical Support may be able to help restore some files from your pre-upgrade file system.

Content Gateway Integrated Windows Authentication (IWA) settings

Forcepoint Web Security only: If you use IWA, make a record of the current settings before starting the upgrade.

IWA domain joins should be preserved through the upgrade process. However, in case there is a connectivity problem and IWA domain joins are dropped, it is prudent to document the current settings. Keep the record where you can easily retrieve it after the upgrade.

Back up appliance configuration and settings

It's very important to perform a full appliance configuration backup and save it to a filestore.

Steps

- 1) Log on to the CLI and elevate to config mode.
- 2) To perform an immediate full backup use:

```
create backup now --location filestore_alias [--desc "<description>"]
```

Including a unique description makes it easier to identify backup files that may have very similar names and dates.

Upgrade procedure



Important

Appliance services are not available while the upgrade is being applied. Disruption continues until the appliance completes its final restart.

It is a best practice to perform the upgrade at a time when service demand is low.



Note

- OVA images downloaded before June 2, 2017 should use the migration process described in the KBA titled "Migrating from a v8.3 Email Virtual Appliance (initial image) to v8.4".
- OVA images (except for DLP Analytics Engine) can be upgraded to 8.5.3 directly from 8.3.0, 8.4.0, and 8.5.0.
- DLP Analytics Engine OVA upgrade to 8.5.3 is not supported.
- OVA images (except for DLP Analytics Engine) can be upgraded to 8.5.4 directly from 8.4.0, 8.5.0, and 8.5.3.
- DLP Analytics Engine OVAs can be upgraded to 8.5.4 from 8.5.3.
- The 8.5.3 or prior OVA file must use VMware version 6.x. The 8.5.4 OVA file may use VMware version 6.5 or later, or VMware version 7.x. You cannot upgrade a prior OVA version to 8.5.4 on VMware version 7.x.

Steps

- Download the v8.5.x Forcepoint Security Installer to a location where it is easy to copy it to Windows servers hosting Forcepoint web, email, and data components, such as TRITON Manager (renamed Forcepoint Security Manager in v8.4) and Log Server.
- 2) Perform Pre-upgrade activities.

3) If your deployment includes Forcepoint Web Security, you must upgrade the policy source machine (Policy Broker/Policy Database) before upgrading web protection components on your security blades. If the *Full policy source* machine is an X10G, upgrade that blade first. After upgrading the policy source machine, confirm that Policy Broker and Policy Database services are running.



Important

All Forcepoint components on the Full policy source machine are upgraded when Policy Broker/ Policy Database are upgraded.

In all instances, you must upgrade Forcepoint Web Security components in the following order:

a) Full policy source

Upon completion, confirm that Policy Broker and Policy Database services are running. See Upgrading Web Protection Solutions.

- b) User directory and filtering (sometimes called *policy lite*) blades and non-appliance servers that host Policy Server.
- c) *Filtering only* blades, and non-appliance servers that host Filtering Service.
- d) Off-appliance servers hosting other web protection components (like Log Server or Logon Agent).



Important

Successful upgrade of *User directory and filtering* and *Filtering only* appliances require connectivity with the Policy Broker and Policy Database services.

4) If the appliance is registered in Forcepoint Security Manager, in Forcepoint Security Manager go to Appliances > Manage Appliance and unregister the appliance. Re-registration is a post-upgrade activity. If the appliance is a User directory and filtering appliance, unregister the appliance. In the Web module of Forcepoint Security Manager, go to the Settings > General > Policy Servers page and unregister the appliance.

- 5) Download and apply the upgrade.
 - a) Download the upgrade file.

load upgrade

b) Install the upgrade.

install upgrade

Select the upgrade file from the list. When prompted, confirm to continue, then accept the subscription agreement.

The upgrade performs several system checks. The checks may take several minutes.

When installation is complete, the appliance automatically restarts. If the upgrade fails, the blade server automatically rolls back to the prior version. If the source of the failure is not obvious or cannot be easily addressed, contact Forcepoint Technical Support.

If an error message displays, indicating that ISO verification has failed, repeat the command with the parameter --force <iso_file_name>.

If installation seems to stop, allow the process to run for at least 90 minutes. If installation has not completed in that time, contact Forcepoint Technical Support.

- 6) Perform Post-upgrade activities.
- 7) Return to Step 5 and upgrade remaining appliances.
- 8) Upgrade the management server (if not upgraded when Policy Broker/Policy Database were upgraded), and other servers that host Forcepoint components. See Upgrading Web Protection Solutions and Upgrading Email Protection Solutions for instructions.

Related concepts

Pre-upgrade activities on page 5 Post-upgrade activities on page 8

Post-upgrade activities

Depending on the Forcepoint solutions installed on your appliances, after upgrade perform the following activities.

Important

(Forcepoint Web Security only)

Changing the policy mode is not supported on X Series appliances that have been upgraded to v8.5.x from a version earlier than 8.3. This is consistent with past versions.

When the set mode command is used to change the policy mode, an error is returned. The last line of the error output is:

```
ERROR: [the time]:
ApplianceModeChanger::main(): Unable to switch appliance modes.
```

The policy mode can be changed on v8.5.x X Series appliances sourced from the factory or that have been re-imaged with version 8.5.x.

All appliances can use the set mode command to change the policy source *location* (the IP address of the policy source host machine).

In the CLI

- Elevate to config mode and perform system and configuration checks.
 - Display system information.

show appliance info

Results may be similar to:

```
Uptime : 0 days, 2 hours, 13 minutes
Hostname : webapp.example.com
Hardware_platform : X10G G2
Appliance_version : 8.5.4
Mode : Forcepoint Web Security
Policy_mode : Filtering only
Policy_source_ip: : 10.222.21.10
```

Display the upgrade history.

show upgrade history

Display the appliance and module status.

```
show appliance status
show <module>
```

If expected system services are not running, restart the module that hosts the services.

restart <module>

Display network interface settings.

show interface info

If you have bonded interfaces, note that the names used to indicate the type of bonding have changed. For example, load-balancing is now balance-rr.

Check and, if necessary, synchronize the system time.

```
show system ntp
show system clock
show system timezone
```

If the clock is off and NTP is configured, sync with:

sync system ntp

Otherwise, to sync when the time is set manually, see **System time and time synchronization with Forcepoint servers** in Forcepoint Appliances Getting Started.

- Use the set log archive command to establish size and frequency values for archiving log files.
- If you integrate with a SIEM or an SNMP server, check your SNMP polling and alerting settings.

```
show snmp config
show trap config
show trap events
```

Additional tasks

- If your appliance includes Forcepoint Email Security, perform email Post-upgrade activities.
- In Forcepoint Security Manager, go to the Appliances tab and register your appliances.
- If you have User directory and filtering appliances, in Forcepoint Security Manager go to the Web Security module Settings > General > Policy Servers page, and add the Policy Server instances.
- If your appliance includes Forcepoint Web Security, perform the Content Gateway Post-upgrade activities.
- Review the Release Notes for the Forcepoint solutions on your appliances. New features may require configuration to be put into effect.

Version 8.5.5

- v8.5.5 Forcepoint Web Protection Release Notes
- v8.5.5 Forcepoint Email Security Release Notes

Version 8.5.4

- v8.5.4 Forcepoint Web Protection Release Notes
- v8.5.4 Forcepoint Email Security Release Notes

Version 8.5.3

- v8.5.3 Forcepoint Web Protection Release Notes
- v8.5.3 Forcepoint Email Security Release Notes

Version 8.5.0

- v8.5.0 Forcepoint Web Protection Release Notes
- v8.5.0 Forcepoint Email Security Release Notes

Version 8.4.0

- v8.4.0 Forcepoint Web Protection Release Notes
- v8.4.0 Forcepoint Email Security Release Notes

Version 8.3.0

- v8.3.0 Web Protection Release Notes
- v8.3.0 TRITON AP-EMAIL Release Notes

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