


# FORTRA



Fortra Secure Email Gateway  
Version 6.3.0  
**Installation Guide**

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# 1. About this guide

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This guide provides information for administrators installing Fortra Secure Email Gateway onto a virtual machine or physical server. It covers the requirements and procedures necessary for a full installation.

## Who is this guide for?

This guide is intended for use by:

- New and existing customers installing Secure Email Gateway version 6.3.0.
- Existing customers upgrading from version 6.x of Secure Email Gateway to version 6.3.0.

## Identified issue in this release

### "Applying updates failed" error

You might encounter an error, stating “Applying updates failed”, when updating via **Cockpit > Software updates**. This is due to an issue with the Red Hat Cockpit component.

- To resolve the error, run `dnf upgrade --nobest` from the command line.
- For more information, see [this knowledge article](#) in the Fortra Support Portal.

## 2. Before installing

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This chapter outlines prerequisites and considerations you need to make before installing Secure Email Gateway. Secure Email Gateway runs on 64 bit Red Hat Enterprise Linux (RHEL) 9.7. You can install the product on a virtual machine or physical server.

### Types of installation

You can install Secure Email Gateway using one of the following:

Installation type	Description	Where to start
Private cloud (e.g. VMware, Hyper-V and customer hardware)	Applies to users installing the product from an ISO image that contains both RHEL 9.7 and the Gateway software.	<a href="#">ISO installation</a>
Public cloud (e.g. AWS, Azure or customer supplied OS)	Applies to users installing the product on an existing RHEL 9.7 platform.	<a href="#">Software installation</a>

You can select to operate your Gateway in **FIPS mode**, but when and how to enable it depends on your installation type. Refer to the relevant chapter for more information.

### Prerequisites

#### Hardware requirements

**Testing and demonstration environment:** Your computer or virtual machine requires a minimum of 8 GB RAM and an 80 GB hard drive.

**Production environment:** We recommend a minimum of 200 GB hard drive, based on your storage and processing requirements.

For a production environment, we recommend the following, based on your storage and processing requirements where your Secure Email Gateway is configured so that your policy has:

- 1 anti-virus scanner
- Optical Character Recognition (OCR) disabled

Product spec	Estimated Throughput	CPU Cores/vCPU	RAM (GB)	Disk (GB)	Raid
Physical - Low Spec	Under 20,000 msgs/hour	2	16	200+	Optional

Product spec	Estimated Throughput	CPU Cores/vCPU	RAM (GB)	Disk (GB)	Raid
Physical - High Spec	75,000 msgs/hour	4	16	300+	Yes
Virtual - Low Spec	Under 20,000 msgs/hour	2	16	200+	Optional
Virtual - High Spec	75,000 msgs/hour	4	16	300+	Yes



We recommend increasing the size of the disk by a minimum of 25% if you intend to store message-tracking data for 2 years.

### Installation media

The software ISO image ([EMAIL-6.3.0.iso](#)) is available from the Fortra Support Portal. See the [ISO installation](#) chapter of this guide for more information.

## 3. ISO installation

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If you are upgrading from version 6.x to 6.3.0, go to the [Upgrade](#) chapter of this guide.

If you are migrating from version 5.7.0 to 6.3.0, see the [Migrate](#) chapter of this guide for more information.

### Before you start

#### Obtain the software ISO image

The software ISO image is available from the Fortra Support Portal.

- Log in to the [Fortra Support Portal](#) and select your product.
- On the **Secure Email Gateway** page, navigate to **Downloads > VIEW DOWNLOADS**.
- Download the Secure Email Gateway software ISO image from the [Downloads](#) page. Ensure that you are using the correct version of the ISO image (`EMAIL-6.3.0.iso`).



After downloading the ISO image, it is recommended that a MD5/SHA hash is generated and compared with the published hashes from the Downloads page.



If you would like to copy the ISO image to USB media, see the [Appendix](#) of this guide for more information.

#### Additional settings for your Secure Email Gateway

- **FIPS mode:** If you wish to operate your Secure Email Gateway in FIPS mode, there are additional steps. See the [Appendix](#) of this guide for more information.
- **DISA STIG security profile:** If you wish to secure your Red Hat 9.7 server to DISA STIG compliance standards, you will need to apply this profile after installing Secure Email Gateway. See the [Appendix](#) of this guide for more information.



STIG remediation may not be suitable for your installation. See the relevant chapter of this guide to check this.

## Install RHEL 9.7 and Secure Email Gateway from the ISO image

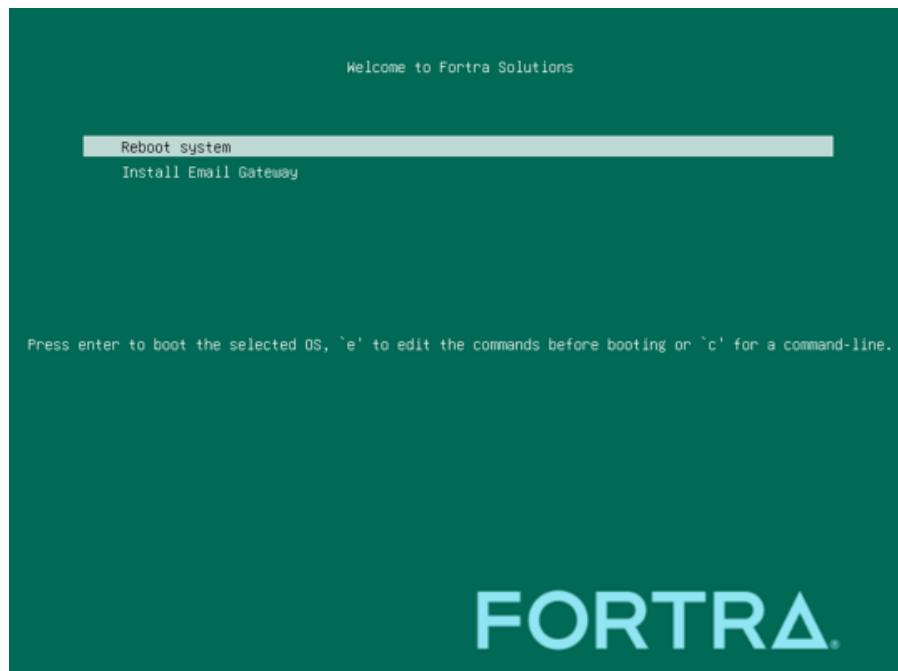
1. Connect the ISO image or the media containing the ISO image as a bootable device.

Power on the server. The **Welcome** menu is displayed. If the load device can not be found, you might need to adjust your system boot sequence.

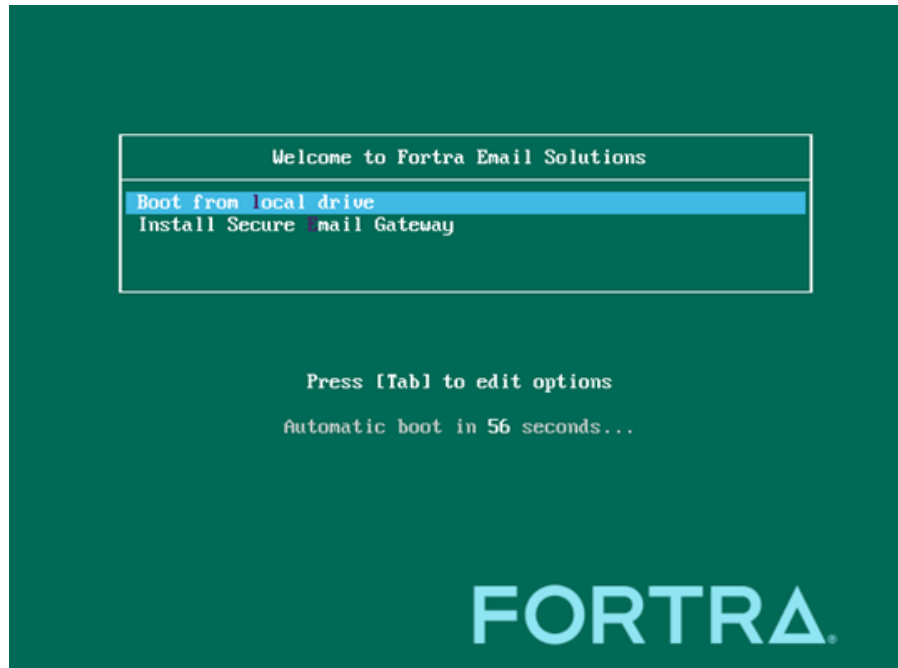



If you wish to operate your Secure Email Gateway in **FIPS mode**, there are additional steps at this point. See the [Appendix](#) of this guide for more information.

(Boot mode: UEFI)



(Boot mode: BIOS)



2. Use the arrow keys or keyboard shortcuts to select the **Install** option from the menu, and then press the **Enter** key. The install process begins.
3. The **Red Hat Installation Wizard** is displayed and prompts you to select the language to be used during the installation process.
4. Configure the server. On the **INSTALLATION SUMMARY** page:
  - Settings with  icon: these must be configured.
  - Other settings: these should not be modified unless advised by Support, as Fortra provides default configuration.
5. Set a password for the root user account and create an additional administrator account.



See the [Create administrator accounts](#) section of this guide for more information.

Creating additional administrator account(s) can also be done post-installation via Red Hat Cockpit.

6. We recommend configuring your network and hostname settings now.



By default, the network settings will be configured to use DHCP to obtain an IP address. If a DHCP server is not available you



will be unable to continue unless a static IP address has been configured.

7. Scroll to the bottom of the wizard configuration page.
8. Click **Network & Host Name**.
9. Select the Network Card to configure and click **Configure**.
10. Select the **IPv4** Settings tab. Select **Manual** entry and click **Add**.



As a standard, we recommend configuring each network card with a static network address, but you could leave this automatic. Configure as per your organization's requirements.

11. Enter your network settings and click **Save**.



Do not modify the **Device** field on the **Ethernet** tab as doing so could cause unexpected errors.

12. You can accept the default hostname, or enter your hostname in the **Host Name** field and click **Apply**.
13. Once satisfied that the hostname and network cards are configured correctly, click **Begin Installation**. This will configure Red Hat and install the Gateway.
14. The package installation takes approximately 15-20 minutes. Once complete, the Gateway automatically reboots.
15. Go to the [Configure Gateway](#) chapter of this guide and continue.



There are several actions you may need to perform at this point, including configuring the online repositories.

See the [Post-install actions](#) section (under the Configure Gateway chapter) of this guide for more information.

## 4. Software installation

---

The following steps describe how to install Secure Email Gateway on top of an existing Red Hat Enterprise Linux (RHEL) 9.7 Server (including a suitably configured AWS or Azure instance).



If you are upgrading from version 6.x to 6.3.0, go to the [Upgrade](#) chapter of this guide.

If you are migrating from version 5.7.0 to 6.3.0, see the [Migrate](#) chapter of this guide for more information.

### Before you start

#### Prerequisites for installing Red Hat 9.7

- **Software Selection:** You should install Red Hat 9.7 as a **Minimal** installation, with a separate `/ (root)` and `/var` partition.
- The `root` partition should be a minimum of 20 GB, and the `/var` partition should use a minimum of 80 GB for a test environment, and 200 GB for a production environment.
- **Network & Host Name:** Ensure that your Gateway has a hostname configured. To check this, run the following:

```
hostnamectl
```

#### FIPS mode

**FIPS mode:** If you wish to operate your Secure Email Gateway in FIPS mode, there are additional steps. See the [Appendix](#) of this guide for more information.

#### DISA STIG security profile

**DISA STIG security profile:** If you wish to secure your Red Hat 9.7 server to DISA STIG compliance standards, you will need to apply this profile after installing Secure Email Gateway. See the [Appendix](#) of this guide for more information.



STIG remediation may not be suitable for your installation. See the relevant chapter of this guide to check this.

## Install from the Secure Email Gateway ISO



We recommend disabling or removing any existing repositories in `/etc/yum.repos.d/` on Secure Email Gateway as they may cause conflicts.

To install Secure Email Gateway:

1. Open a Terminal and log in as root user.
2. Insert the media containing the ISO image, or attach the ISO image to your virtual machine as a DVD drive.
3. Mount the media to `/media/os`:

```
mkdir -p /media/os  
mount /dev/cdrom /media/os
```

4. Import the Fortra GPG public key:

```
rpm --import /media/os/RPM-GPG-KEY-CS-PROD
```

5. Install the `cs-rhel9-media` package. The `cs-rhel9-media` package configures your system to install the Gateway from the ISO image:

```
dnf install -y /media/os/cs-iso-repo/cs-rhel9-media*.rpm
```

6. If you intend to update from the online repositories in the future, enter the following to install the required configuration files:



```
dnf install -y /media/os/cs-iso-repo/cs-rhel9-email-repo*.rpm  
/media/os/cs-iso-repo/cs-rhel9-mirrors*.rpm
```

7. Enable the media repositories:

```
dnf config-manager --set-enabled cs-media,cs-rhel-9-media*
```

8. Install the required product:

```
dnf install -y cs-email
```



If this step fails due to additional conflicts, you might need to



remove the conflicting packages first using:

```
dnf remove <package name>
```

9. Reboot Secure Email Gateway.
10. Go to the [Configure Gateway](#) chapter of this guide and continue.



There are several actions you may need to perform at this point, including configuring the online repositories.

See the [Post-install actions](#) section (under the Configure Gateway chapter) of this guide for more information.

## Install from the online repositories

To install Secure Email Gateway from repositories hosted online by Fortra, you will need the Internet access to them.




We recommend disabling or removing any existing repositories in `/etc/yum.repos.d/` on Secure Email Gateway as they may cause conflicts.

1. Assume root role at the command line.



When downloading and installing files, we recommend that you check the downloaded file can be verified against the vendor public key.

2. Download the packages containing the online repository configuration files:  
(Click  to open a page from where you can copy the commands and scripts.)



```
curl -Of https://cs-products.fortra.com/rhel9/seg/cs-rhel9-mirrors-1.0.1.rpm
curl -Of https://cs-products.fortra.com/rhel9/seg/cs-rhel9-email-repo-1.0.2.rpm
```

### 3. Download and install the Fortra GPG public key:



```
rpm --import https://cs-products.fortra.com/RPM-GPG-KEY-CS-PROD
```

### 4. Verify the downloaded packages:

```
rpm --checksig --verbose cs-*.rpm
```

This will display the results below, where all checks respond with OK:

```
cs-rhel9-mirrors-1.0.1.rpm:
```

```
Header V4 RSA/SHA256 Signature, key ID 9c75f096: OK
Header SHA256 digest: OK
Header SHA1 digest: OK
Payload SHA256 digest: OK
MD5 digest: OK
```

```
cs-rhel9-email-repo-1.0.2.rpm:
```

```
Header V4 RSA/SHA256 Signature, key ID 9c75f096: OK
Header SHA256 digest: OK
Header SHA1 digest: OK
Payload SHA256 digest: OK
MD5 digest: OK
```

### 5. Install the downloaded repository-file packages:

```
dnf -y install cs-*.rpm
```

### 6. Install the required product:

```
dnf install -y cs-email --enablerepo=cs-*
```

This command temporarily enables access to the online repositories, and installs Secure Email Gateway.



If this step fails due to additional conflicts, you might need to remove the conflicting packages first using:

```
dnf remove <package name>
```

### 7. Reboot Secure Email Gateway.

### 8. Go to the [Configure Gateway](#) chapter of this guide and continue.



There are several actions you may need to perform at this point, including configuring the online repositories.

See the [Post-install actions](#) section (under the Configure Gateway chapter) of this guide for more information.

## 5. Configure Secure Email Gateway

---

After the installation, you may need to perform some actions to set up your Secure Email Gateway, and then complete the Initial Setup Wizard.

During this process, all system administration actions should be performed using Red Hat Cockpit.



When you log in to Cockpit with the root user name for the first time after the installation, you might receive an error, stating that your user name and password are incorrect, even if you used the correct credentials. To resolve this, follow the steps in the [Red Hat Documentation](#).



You should avoid changing network configuration at the command line as Secure Email Gateway may not be notified of these changes.

If changing network configuration at the command line is necessary, please contact Support for more information.

### Post-installation actions

We recommend that you consider the following after installing Secure Email Gateway, but before configuring its Initial Setup Wizard.

#### Configure update repositories

(Applies to all installation types: ISO installation and software installation)

By default, the online repositories are disabled after installation. This means that any updates will need to be installed using the ISO of subsequent Secure Email Gateway releases.

Alternatively, if Secure Email Gateway has access to the Internet, it can receive updates from the online repositories. Switching from offline to the online repositories gives access to Red Hat security fixes, normally within 24 hours of their publication and subsequent testing to ensure there are no compatibility issues. We recommend this for most installations. However, you should only do this if you intend to also use the online repositories for future product upgrades.



Be aware that enabling the online repositories is an irreversible action.

To enable the online repositories:

1. Log in to Cockpit using the administrator credentials. Ensure that you have the **Administrative access** (not the **Limited access**) to the account.

To access the Cockpit administration user interface, open a supported web browser and enter the IP address of your Secure Email Gateway, on port 9090:

`https://<ip-address>:9090`

2. Navigate to **Fortra**. From **Product Actions > Enable online repositories**, click **Enable**.



Do not install updates at this point. You can install updates after completing the Initial Setup Wizard using `dnf upgrade --nobest` from the command line.

## Firewall ports

(Applies to all installation types: ISO installation and software installation)

You may need to open firewall ports on your DMZ, depending on your network configuration. See [Firewall ports](#) in the Online Help for more information.

## Create administrator accounts

(Applies to all installation types: ISO installation and software installation)

Before you start using the Gateway:

- Create a new (primary) administrator account
- Create a secondary administrator account - it is good practice, in case the password for the primary administrator account is lost.
- Disable the root user account as a security precaution

To do this:

1. Log in to Cockpit using the credentials created during the Red Hat installation. Ensure that you have the **Administrative access** (not the **Limited access**) to the account.

To access the Cockpit administration user interface, open a supported web browser and enter the IP address of your Secure Email Gateway, on port 9090:

<https://<ip-address>:9090>

2. Navigate to **Accounts > Create new account**.
  - Enter the name of the new administrator account and a strong password that meets the criteria defined in the password policy.
3. Click the new administrator account and enable the following role and policy:
  - Ensure that you assign appropriate **Groups** (e.g. `wheel`) to the account, so it has the administrator privileges. The administrator user can switch their privileges by selecting either the **Administrative access** or the **Limited access**.
  - In the **Options** section, click **edit**. In the **Account expiration** dialog, select **Never expire account** and click **Change**.
  - In the **Password** section, click **edit**. In the **Password expiration** dialog, select **Never expire password** and click **Change**.



If you set the password expiry for any created accounts, ensure that you keep a record of it, as Red Hat does not automatically notify the user when the password is due to expire. If the administrator account becomes locked out, the only resolution is to take the system offline and boot into single user mode.

4. Log out of Cockpit and log back in using the new administrator credentials. Ensure that you have the **Administrative access** (not the **Limited access**) to the account.
5. Navigate to **Accounts**.
  - Expand the options (...) for the root user, and select **Lock account** to disable it.

### Password policy

(Applies to all installation types: ISO installation and software installation)

See [Password policy](#) in the Online Help for more information.

### crontab configuration

(Applies to software installation only)

The crontab configuration is modified. Pre-existing root cronjobs might be lost, but you can re-add them.

### Install additional software

(Applies to software installation only)

The software installation process will not automatically disable any of your pre-existing repository configurations. From the command line, you will be able to install additional third-party software in the normal way. This includes additional Red Hat software.



If you use Cockpit to update your Gateway, only Fortra-provided updates will be applied. This ensures that only Fortra-trusted repositories are used during the process, and any unintended updates from third-party repositories will be blocked.

## Complete the Initial Setup Wizard

Once you have gone through the post-installation actions above and have restarted Secure Email Gateway, run the Initial Setup Wizard.



If the installation media has been disconnected following the reboot, you must reconnect it before configuring the Initial Setup Wizard. The wizard requires access to the installation media to complete the setup of your Secure Email Gateway.

If you are installing from ISO, ensure that the media is mounted at `/media/os`.

1. To access the Secure Email Gateway's web user interface, open a supported web browser and enter the IP address of your Gateway:  
`https://<ip-address>`
2. The Initial Setup Wizard is displayed.
3. Complete the wizard to configure Secure Email Gateway.
4. The system might take around 5-10 minutes to apply the settings before you can use the Gateway. We recommend visiting the [Configure Gateway](#) topic in the Online Help when the interface is accessible.

## Post-wizard actions

We recommend you consider the following after you ran the Initial Setup Wizard.

### SSH access

If SSH access is required, you need to re-enable it through the web user interface. See [SSH Access](#) in the Online Help for more information.

### DISA STIG security profile

(Applies to all installation types: ISO installation and software installation)

If you wish to secure your Secure Email Gateway to DISA STIG compliance standards, there are additional steps. See the [Appendix](#) of this guide for more information.

## 6. Upgrade from Secure Email Gateway 6.x

The method used for upgrading from version 6.x depends on whether you are upgrading from the ISO or the online repositories.



If you are installing Secure Email Gateway for the first time, go to the relevant chapter ([ISO install](#) or [Software install](#)) of this guide.

### Security enhancement and required adjustments

From version 6.2.0, HTTP protocol is no longer supported in certain end-user functionalities, such as the Manage Message token/link in Inform, the Digest Messages in PMM and managing Trusted Senders in PMM. If you are currently using any of them via HTTP, you may need to reconfigure the Gateway after the upgrade.

See [Version 6.2.0 Release Notes](#) for more information.

## Upgrade from the Secure Email Gateway ISO



When upgrading from the ISO using:

- **DNF** - you are advised to use `dnf upgrade --nobest`, instead of just `dnf upgrade`.
- **Cockpit** - the process should complete without any issues.

Use Cockpit to install the upgrade from the version 6.3.0 ISO image.

1. You must make the version 6.3.0 ISO image available to your Secure Email Gateway.

If you are using a DVD and if it does not mount automatically, you may have to type the following at the command-line:

```
mount -r /dev/cdrom /media/os
dnf clean all
```

2. Once all update have been installed, you need to reboot the Gateway. Use the reboot option at the end of the process, or navigate to **Overview** and select **Reboot**. Alternatively, you can navigate to **Terminal** and enter a command.



During the ISO upgrade process, you might see an error, stating "PackageKit crashed" in Cockpit, which will be resolved on its own. Refresh the screen to check if all updates have been installed successfully. Secure Email Gateway should work without issues after the reboot.

## Upgrade from the online repositories



When upgrading from the online repositories using:

- **DNF** - you are advised to use `dnf upgrade --nobest`, instead of just `dnf upgrade`.
- **Cockpit** - the process should complete without any issues.

Unless "offline mode" is a very specific requirement for your system, you should upgrade Secure Email Gateway from the online repositories.

Offline mode is designed for installations that operate in a closed environment, disconnected from the Internet. To perform an offline upgrade, you require a copy of the latest release ISO mounted to suitable media (e.g. USB). If you need additional guidance, please contact Support.

To upgrade from the online repositories:

1. Ensure that your Gateway has access to the Internet and the online repositories are enabled. See the [Configure update repositories](#) section of this guide for more information.
2. Log in to Cockpit using the administrator credentials. Ensure that you have the **Administrative access** (not the **Limited access**) to the account.

To access the Cockpit administration user interface, open a supported web browser and enter the IP address of your Secure Email Gateway, on port 9090:

<https://<ip-address>:9090>

3. Navigate to **Software updates** and check for updates.
4. Install all updates to upgrade the Gateway.
5. Once all update have been installed, you need to reboot the Gateway. Use the reboot option at the end of the process, or navigate to **Overview** and select **Reboot**. Alternatively, you can navigate to **Terminal** and enter a command.



After the upgrade, you may find that your upgrade mode has been reset to "offline". Ensure that you re-enable the online repositories.

## Peer support

When upgrading your Secure Email Gateway, the following peer support rules are applicable:

- Secure Email Gateway version 6.3.0 can peer with another Secure Email Gateway version 6.3.0.
- Peer groups with mixed versions can co-exist with older versions to share message tracking, reporting and other peering features, but policy may not be applied remotely.

## 7. Migrate from Secure Email Gateway 5.x

---

In-place upgrade is not supported from version 5.x to version 6.3.0.

If you wish to restore your version 5.x configuration on version 6.3.0, you must first upgrade your Secure Email Gateway to version 5.7.0 and backup your system. Then, you can install version 6.3.0 and restore the version 5.7.0 backup to version 6.3.0.

Basic steps will be:

**Upgrade:** Upgrade your Gateway to version 5.7.0, if you are using the older versions

**Backup:** Backup all the system areas

**Install:** Install version 6.3.0

**Restore:** Restore the version 5.7.0 system backup to version 6.3.0

### Pre and post-migration considerations

Beware of the following before and/or after you perform the backup and restore operations.

#### FTP command "LIST" (dir)

From version 6.0.0, `-a` option has been removed from the FTP command `LIST (dir)`. This allows Secure Email Gateway to work with certain FTP servers to perform the backup and restore operations. If the old functionality is required, create a file `/opt/cs-gateway/custom/general.properties` and add the following to it:

```
ftpSwitches=-a
```

#### Security enhancement and required adjustments

From version 6.2.0, HTTP protocol is no longer supported in certain end-user functionalities, such as the Manage Message token/link in Inform, the Digest Messages in PMM and managing Trusted Senders in PMM. If you are using any of them via HTTP in older versions of the Gateway, you may need to reconfigure them before you start using version 6.3.0.

See [Version 6.2.0 Release Notes](#) for more information.

### Backup and restore version 5.7.0 to version 6.3.0

See the [Backup and restore](#) chapter of this guide for more information.


## Troubleshoot upgrading

### Upgrade the Japanese Secure Email Gateway to version 5.7.0

When upgrading the Japanese Gateway to version 5.7.0, it is possible that the user interface and other components may become broken.

To resolve this:

1. Edit `control_cs_gw_stats.sh` and comment out the following in the `ExecStart` function:

(Click  to open a page from where you can copy the commands and scripts.)



```
if [ ! "${_INFENV_INCLUDED}" ]; then . "${CS_SCRIPTS_DIR}"/_
infenv; fi
```

2. Then, execute the following:

```
sudo systemctl daemon-reload
sudo systemctl restart cs-gw-stats
sudo systemctl restart cs-gw-admin-ui.service
```

After completing these steps, you will be able to backup the system and upgrade to version 6.3.0.

## 8. Backup and restore Secure Email Gateway

---



In the Secure Email Gateway's web user interface, navigate to **System > Configuration > Backup & Restore** to access the feature. See [Backup and Restore the system](#) in the Online Help for more information.

### Backup and restore version 5.7.0 to version 6.3.0

When migrating Secure Email Gateway from version 5.x to version 6.3.0, part of the process involves backup and restore operations.

Note that:

- The **User Interface Service** logs will not be restored.
- PMM protocol can be reset to HTTP, even if it was set to HTTPS in the backup. It can be set to HTTPS after the restore process.
- If the PMM IP address cannot be found or used, PMM modes will be disabled. In this case, PMM modes must be enabled again after you have completed the restore process and selected the new IP address.
- If you use PMM, it is necessary to join the domain after the restore process.
- You can only restore FIPS configurations to a FIPS-enabled Gateway. If your source Gateway operates in FIPS mode, the target Gateway also needs to be in FIPS mode.

### Backup and restore version 6.3.0 to version 6.3.0

If you installed a new instance of Secure Email Gateway or upgraded it from version 6.x to 6.3.0, you may still need to backup and restore your Gateway as part of regular maintenance.

Note that:

- If the PMM IP address cannot be found or used, PMM modes will be disabled. In this case, PMM modes must be enabled again after you have completed the restore process and selected the new IP address.
- If you use PMM, it is necessary to join the domain after the restore process.
- You can only restore FIPS configurations to a FIPS-enabled Gateway. If

your source Gateway operates in FIPS mode, the target Gateway also needs to be in FIPS mode.

## Appendix: FIPS mode installation

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FIPS (Federal Information Processing Standards) is a set of standards developed by the United States Federal Government for use in computer systems. FIPS 140-2 is the subset of standards which defines approved encryption algorithms used for handling sensitive information. See [FIPS mode](#) in the Online Help for more information.

You can select to operate your Secure Email Gateway in FIPS mode, but when and how to enable it depends on your installation type.

### Enable FIPS mode on ISO installation

This section is an extra step to the [ISO installation](#) chapter of this guide. Read the chapter first to ensure that you are aware of the entire installation process and its requirements.

1. Connect the Secure Email Gateway ISO.



This is the software ISO image provided by Fortra that contains both RHEL 9.7 and Secure Email Gateway.

2. On the **Welcome** menu:

(Boot mode: UEFI)

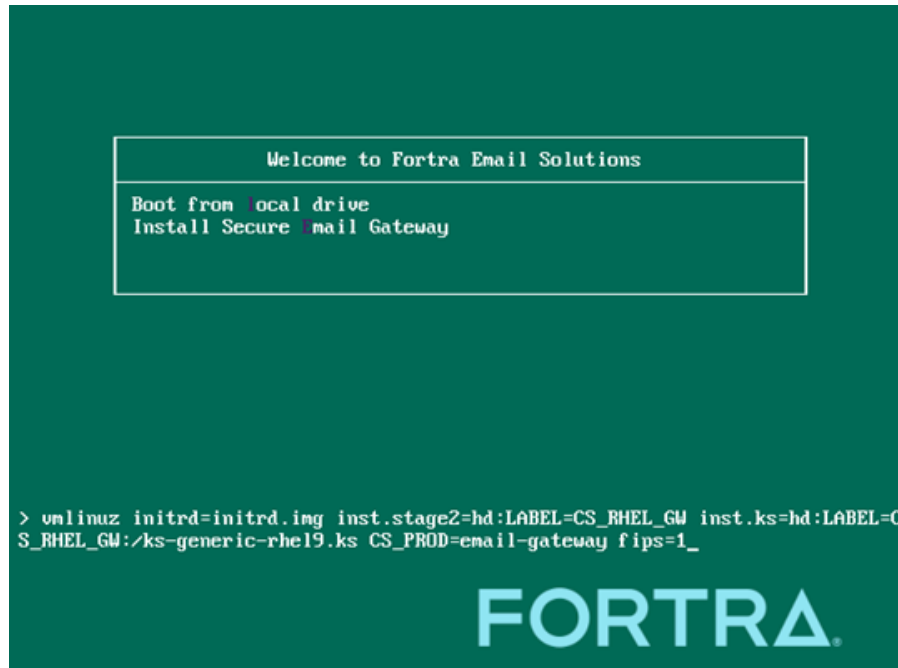
Press 'e' key and edit the first line to add `fips=1`. Then, press **F10** key.



```
GRUB version 2.06
setparams 'Install Email Gateway'
linuxefi /images/pxeboot/vmlinuz inst.stage2=hd:LABEL=CS_RHEL_GW inst.ks=hd:LABEL=CS_RHEL_GW:/ks-generic-rhel19.ks CS_\
PROD=email-gateway fips=1_
initrdefi /images/pxeboot/initrd.img
```

(Boot mode: BIOS)

Use the arrow keys or keyboard shortcuts to select **Install Secure Email Gateway**, and press the **Tab** key. Add `fips=1` to the kernel command line and press the **Enter** key.



3. Return to the [Install RHEL and the Gateway](#) section of this guide and continue.



Once enabled, you cannot disable FIPS mode without reinstalling the Gateway.

## Enable FIPS mode on software installation

This section is an extra step to the [Software installation](#) chapter of this guide. Read the chapter first to ensure that you are aware of the entire installation process and its requirements.

There are three different timings to enable FIPS mode:

1. Before the RHEL 9.7 installation
2. After the RHEL 9.7 installation
3. During the Secure Email Gateway installation

### Before the RHEL 9.7 installation

You are going to enable FIPS mode before installing RHEL 9.7.

1. Connect the RHEL 9.7 ISO.



This is the ISO image provided by Red Hat that only contains RHEL 9.7, not the Secure Email Gateway's software ISO provided by Fortra.

2. On the boot menu:

(Boot mode: UEFI)

Press 'e' and edit the first line to add `fips=1`. Then, press **F10**.

(Boot mode: BIOS)

Select your preferred installation option and press the **Tab** key. Add `fips=1` to the kernel command line and press the **Enter** key.

3. Return to the [Software installation](#) chapter of this guide and continue.



Once enabled, you cannot disable FIPS mode without reinstalling the Gateway.

### After the RHEL 9.7 installation

You are going to enable FIPS mode after installing RHEL 9.7, but before the Secure Email Gateway installation.

1. Install RHEL 9.7, but do not install Secure Email Gateway yet.
2. Execute the following on the command line:

```
fips-mode-setup --enable
```

3. Reboot, then return to the [Software installation](#) chapter of this guide and continue.



Once enabled, you cannot disable FIPS mode without reinstalling the Gateway.

### During the Secure Email Gateway installation

You are going to enable FIPS mode after installing Secure Email Gateway, but before configuring its Initial Setup Wizard.

1. Install RHEL 9.7 and Secure Email Gateway, but do not reboot the Gateway yet.
2. Execute the following on the command line:

```
fips-mode-setup --enable
```

3. Reboot, then go to the [Configure Gateway](#) chapter of this guide and continue.



Once enabled, you cannot disable FIPS mode without reinstalling the Gateway.

## Appendix: Install with USB installation media

The following steps describe how to copy the Secure Email Gateway software ISO image to USB media.

1. The software ISO image is available from the Fortra Support Portal.
  - Log in to the [Fortra Support Portal](#) and select your product.
  - On the **Secure Email Gateway** page, navigate to **Downloads > VIEW DOWNLOADS**.
  - Download the Secure Email Gateway software ISO image from the [Downloads](#) page. Ensure that you are using the correct version of the ISO image (`EMAIL-6.3.0.iso`).



After downloading the ISO image, it is recommended that a MD5/SHA hash is generated and compared with the published hashes from the Downloads page.

2. Use Fedora Media Writer to create a bootable USB. The latest version is available from <https://github.com/FedoraQt/MediaWriter/releases>.
3. Plug in the USB and follow the [ISO installation](#) chapter of this guide to install the product.



If you use USB media to install the product, it is important that you follow the remaining steps before you [complete the Initial Setup Wizard](#). Do not run the wizard at this point.

4. Go to Cockpit and verify that the USB is still mounted at `/media/os`. If not, run the following commands.

- To verify the USB device ID:

```
realpath /dev/disk/by-label/CS_RHEL_GW
```

- To mount the device (in this example, assuming it is `sda1`):

```
mount /dev/sda1 /media/os
```

5. You can now run the Initial Setup Wizard.
6. After completing the wizard, verify your license and check that your licensed anti-virus-software services are installed.

## Appendix: DISA STIG security profile

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The Defense Information System Agency (DISA) publishes Security Technical Implementation Guides (STIG) which describe how to securely configure various computer systems and software.

Fortra provides a DISA STIG security profile that is tailored to meet the Secure Email Gateway's operational requirements. This profile needs to be applied after installing Secure Email Gateway.

### Before you start

#### STIG remediation on different installation types

Applying the DISA STIG security profile has been successfully tested on the following.

Running the profile on other VM technology or on hardware is not recommended as this can cause the OS to become unusable and require a full reinstall.

- Hyper-V
- VMware ESXi
- Azure
- AWS instances with UEFI boot mode



STIG remediation on AWS instances that only support Legacy BIOS boot mode, such as *t2.xlarge* will fail.

#### Possible impact on the performance

Applying the DISA STIG security profile could reduce the performance of traffic-processing on your Secure Email Gateway. This is due to the increase in the level of auditing performed by the Red Hat audit service.

We recommend that you carefully monitor performance before and after applying the profile, and assign additional hardware resources if required.

### Apply the DISA STIG security profile

After installing Secure Email Gateway:



You can apply the profile after completing the Initial Setup Wizard, and anti-virus scanners have been installed and configured.

1. If you have not enabled the online repositories, insert your Secure Email Gateway ISO.
2. Log in to Cockpit using the credentials for your administrator account. Ensure that you have the **Administrative access** (not the **Limited access**) to the account.  
To access the Cockpit administration user interface, open a supported web browser and enter the IP address of your Secure Email Gateway, on port 9090:  
<https://<ip-address>:9090>

3. If you are using the ISO, mount it using:

```
sudo mount /dev/cdrom /media/os/
```

4. Navigate to **Terminal**. Assume root user privileges using the following command:

```
sudo su
```

5. Execute the following script and wait for it to complete:

```
/opt/clearswift/platform/stig/bin/remediate-disa-stig.sh
```

6. Once the script has completed, you must reboot the system in order for the DISA STIG security profile modifications to be applied.
7. After the reboot, your ISO will be dismounted. Ensure that you re-mount using:

```
sudo mount /dev/cdrom /media/os/
```

8. Return to the [Configure Gateway](#) chapter of this guide and continue.

## Evaluating Secure Email Gateway

To evaluate the DISA STIG compliance rating of your Secure Email Gateway, you can generate a report.

1. Log in to Cockpit using the credentials for your administrator account. Ensure that you have the **Administrative access** (not the **Limited access**) to the account.

To access the Cockpit administration user interface, open a supported web browser and enter the IP address of your Secure Email Gateway, on port 9090:  
<https://<ip-address>:9090>

2. Navigate to **Terminal**. Assume root user privileges using the following command:

```
sudo su
```

3. Execute the following script:

```
/opt/clearswift/platform/stig/bin/evaluate-disa-stig.sh
```

4. The report will be available from:

```
/var/opt/clearswift/platform/stig/disa-stig-report.html
```



If you wish to validate your DISA STIG compliance, please contact Support and request a compliance document.

## Contact Fortra

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For more information about the Fortra products and cybersecurity solutions, please visit our [website](#).

You can contact us for questions, and to receive technical bulletins, updates, program fixes and other information on your Secure Email Gateway via email or Internet.

## Fortra Support Portal

[Fortra Support Portal](#) offers various helpful resources, such as product documentation and knowledge articles. You can also contact our Technical Support, using this Portal.

For support issues, please:

- Check this guide's table of contents and topics for information that addresses your concern.
- Check the Knowledge Base in the Fortra Support Portal for information that addresses your concern.
- Gather and organize as much information as possible about the problem, including job/error logs, screenshots or anything else to document the issue.