FORTRA

Clearswift Secure Email Gateway Version 6.0.0 Installation Guide (on Microsoft Azure)

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1. About this guide

This guide provides information for administrators installing Clearswift Secure Email Gateway onto a virtual machine using Microsoft Azure. 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 6.0.0 on the Microsoft Azure platform.

Alternative installation types and migration

This guide focuses on the installation of a new instance of Secure Email Gateway on Microsoft Azure.

If you require information on the following, refer to the Installation Guide.

- Alternative installation types: see the "**Before installing**" chapter.
- Migrating from version 5.7.0 to 6.0.0: see the "Migrate" chapter.



You can access all installation guides from the Online Help.

2. Before installing

This chapter outlines prerequisites and considerations you need to make before installing the cloud-hosted Secure Email Gateway. Secure Email Gateway runs on 64 bit Red Hat Enterprise Linux (RHEL) 9.4.

Types of installation

You can install Secure Email Gateway onto a virtual machine using Microsoft Azure.



Note that for the **Personal Message Management (PMM)** feature, you must install a separate network interface controller.

Prerequisites

Before installing, ensure that you have the following:

- A valid Microsoft Azure account
- Your subscription details

3. Configure a virtual machine using Microsoft Azure

This chapter outlines how to create the Azure virtual machine (VM) required to host Secure Email Gateway, using the Azure portal.

For detailed instructions on using external resources, such as the Azure portal, refer to the appropriate documentation by the providers. Fortra is not responsible for changes to any of the procedure steps described.

3.1 Create the VM

- 1. Sign in to the <u>Azure portal</u>.
- 2. Select Create a resource.
- 3. Select Virtual machine > Create.

3.2 Configure the basic settings

Use the **Basics** tab to configure the details of your virtual machine.

Project Details

• Enter your **Subscription** and **Resource group**.

Instance details

- Enter Virtual machine name.
- For **Region**, select the nearest data center for your location. You will need this information in order to log in to the machine later.



Some regions might have limitations on available disk types and disk sizes. For more information, see https://azure.microsoft.com/en-us/regions/.

- For the **Availability**, **Zone** and **Security** settings, select appropriate options as per the current policy of your organization.
- Under Image, click See all images. In the Marketplace, search for Red Hat.
 Select a Red Hat Enterprise Linux (RHEL) 9.4 option.

- Select an appropriate VM architecture.
- Set Run with Azure Spot discount as per the current policy of your organization.
- Under Size, click See all sizes and select a suitable VM size. We recommend a VM with 16 GB of RAM, and a minimum of two processors.
- Set Enable Hibernation as required.

Administrator account

- Select an appropriate Authentication type.
 SSH public key:
 - Enter **Username**.

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Select SSH public key source. You can Generate new key pair.
 Alternatively, you can Use existing key stored in Azure and select
 Stored Keys.

The SSH key pair is generated and made available as a . pem file that can be downloaded once the VM has been created.

Password:

 Enter Username and Password. Ensure that your password satisfies Microsoft's password requirements.

Inbound port rules

Unless otherwise required by your organizational policy, these settings can be left to the default. You can use the <u>Networking</u> tab later to create access rules for known IP addresses.

Click Next and move to the Disks tab.

Review + create

You can click **Review + create** at this point to review the basic configuration and create the VM.

However, you will still need to configure the **Disks**, **Networking** and **Management** tabs. We recommend that you configure these tabs first, the use **Review + create** at the end.

3.3 Configure the disk settings

Use the **Disks** tab to configure the disk options and data disks of your virtual machine.

VM disk encryption

• Set as per your subscription and the current policy of your organization.

OS disk

- The default OS disk size assigned to Azure VM is 64 GB. You can change this to a more suitable size, such as 128 GB or 256 GB.
- Configure other options as required.

Data disks

 If required, additional disks can be added or existing disks can be attached to this VM. For detailed instructions, refer to the appropriate Azure documentation.

Click Next and move to the Networking tab.

3.4 Configure the networking settings

Use the **Networking** tab to configure the network interface options of your virtual machine.

Network interface

- For Virtual network, select an existing virtual network. Alternatively, click Create new to add a new one.
- Select a virtual network as Subnet. The default network location is 10.0.0.0/24. This is used internally and is not the public IP address that you will use to access your VM. This is specified by Public IP, which enables you to customize a name for access to the machine.
- For NIC network security group, we recommend the Advanced option with firewall rules configured as follows.

Select an appropriate **Configure network security group** if available, or click **Create new** to set up a new group.

| Priority | Name | Port | Protocol | Source | Destination |
|----------|-----------|------|----------|-----------------------------------|----------------|
| 1000 | Allow-ssh | 22 | ТСР | <your ip<br="">address></your> | VirtualNetwork |

| Priority | Name | Port | Protocol | Source | Destination |
|----------|------------------------------|------|----------|-----------------------------------|----------------|
| 1010 | Allow-admin- ui-access | 443 | ТСР | <your ip<br="">address></your> | VirtualNetwork |
| 1020 | Allow- cockpit- access | 9090 | ТСР | <your ip<br="">address></your> | VirtualNetwork |
| 1030 | Allow-smtp-in | 25 | ТСР | Anywhere | VirtualNetwork |



To configure the Firewall ports and protocols for the product, see <u>Firewall ports</u> in the Online Help for more information.

 Configure other options. Unless otherwise required by your organizational policy, these settings can be left to the default.

Load balancing

 Configure as required. Unless otherwise required by your organizational policy, these settings can be left to the default.

Click Next and move to the Management tab.

3.5 Configure the additional settings

The following tags are available to configure further options for your virtual machine.

Management

Monitoring

Advanced

Tags



The settings on these tabs depend on the current policy of your organization and your preferences.

For example, you might enable the **Auto-shutdown** option in the **Management** tab.

When ready, click **Review + create**.

3.6 Review and create the VM

Use the **Review + create** tab to check that your settings are correct and validation has passed. You can then create the virtual machine.

Check the VM configuration

- Scroll through the page to review the current configuration of your VM.
 If any settings need amending, click **Previous** and return to the required tab.
 After you have amended the setting, go to the **Review + create** tab again.
- Once satisfied, click **Create** to create the VM.

Generate new key pair

If you selected to access the VM using a newly generated **SSH public key** in the <u>Basic</u> tab, you are now prompted to download the new key.

- Click Download private key and create resource.
- When prompted, save the .pem file to a safe location.

When the deployment has been complete, click Go to resource.

3.7 Configure public IP address and DNS name

The **Overview** page displays the details of your virtual machine.

- Review your networking settings. Select your Public IP address and check its properties.
- From Setting > Configuration, change IP address assignment from Dynamic to Static.
- Enter DNS name label.
- Save your settings.

3.8 Increase the disk size

Azure virtual machines are automatically given a default disk size of 64 GB. You may need to stop the VM and increase the disk size.



If you have already allocated a sufficiently large disk size during the <u>VM creation</u>, resizing is not required at this point.

If you wish to increase the disk size after the VM creation:

- Wait for provisioning to finish, then stop the VM.
- Increase the disk size of the OS disk from the Azure portal.

It is recommended that your disk size is large enough to accommodate two 20 GB partitions for root and /opt, and 200 GB for /var. Refer to the table of required partition size for more information.

Start the VM.

3.9 Expand the OS partition

After increasing the disk size, you will need to resize the disk from the default size in Azure.

Follow the instructions at <u>https://docs.microsoft.com/en-us/azure/virtual-machines/linux/resize-os-disk-gpt-partition</u> for RHEL systems.

Required partition size

As a guidance, we recommend the following:

| Partition | Required size | | | | | |
|---------------|---|--|--|--|--|--|
| root and /opt | Minimum of 20 GB (per partition) | | | | | |
| /var | Testing environment: Minimum of 80 GB | | | | | |
| | Production environment: Minimum of 200 GB | | | | | |
| usr | | | | | | |
| temp | These partitions may already be using up to 20 GB of disk space | | | | | |
| home | These partitions may already be using up to 20 GB of disk space | | | | | |
| boot | | | | | | |

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/opt may be part of the root partition. If this is a case, you might set root to 40 GB to accommodate the sufficient size.

Increase the size of the partitions

When the virtual machine has restarted, perform the following steps.

1. Access your VM as a root user by using the following command.

#sudo su

2. Use the lsblk command to determine which logical volume (LV) is mounted on the root of the file system.

In this example, it would be rootvg-rootlv in sda4 which is currently reported as 63.3 GB.

| [root@12thDec2024 | azureuse | er]# | t lsbl | k | | |
|-------------------|----------|------|--------|----|------|-------------|
| NAME | MAJ:MIN | RM | SIZE | R0 | TYPE | MOUNTPOINTS |
| sda | 8:0 | θ | 128G | θ | disk | |
| -sda1 | 8:1 | θ | 200M | θ | part | /boot/efi |
| -sda2 | 8:2 | θ | 500M | θ | part | /boot |
| -sda3 | 8:3 | θ | 1M | θ | part | |
| Lsda4 | 8:4 | θ | 63.3G | θ | part | |
| -rootvg-tmplv | 253:0 | θ | 2G | θ | lvm | /tmp |
| -rootvg-usrlv | 253:1 | θ | 10G | θ | lvm | /usr |
| -rootvg-homelv | 253:2 | θ | 1G | θ | lvm | /home |
| -rootvg-varlv | 253:3 | θ | 8G | θ | lvm | /var |
| └_rootvg-rootlv | 253:4 | θ | 2G | θ | lvm | 1 |
| sdb | 8:16 | θ | 75G | θ | disk | |
| L_sdb1 | 8:17 | θ | 75G | θ | part | /mnt |



Note that in this example, the /opt partition is mounted on rootvg-rootly.

3. Use the pvscan command to determine which disk and partition holds the LVM physical volume or volumes (PV) in the volume group named rootvg.

Note the size and free space listed between the square brackets, as [*size / free space*].



4. Expand the partition that contains this PV by using growpart, the device name, and the partition number.

This expands the specified partition to use all the free contiguous space on the device.

```
[root@12thDec2024 azureuser]# growpart /dev/sda 4
CHANGED: partition=4 start=1437696 old: size=132777984 end=134215679 new: size=266997727 end=268435422
```

5. Use the lsblk command again to verify that the partition has been resized as expected.

In this example, sda4 has changed from 63.3 GB to 127.3 GB.

| [root@12thDec2024 | azureus | er]# | t lsblk | | | |
|-------------------|---------|------|---------|----|------|-------------|
| NAME | MAJ:MIN | RM | SIZE | R0 | TYPE | MOUNTPOINTS |
| sda | 8:0 | θ | 128G | θ | disk | |
| -sda1 | 8:1 | θ | 200M | θ | part | /boot/efi |
| -sda2 | 8:2 | θ | 500M | θ | part | /boot |
| -sda3 | 8:3 | θ | 1M | θ | part | |
| -sda4 | 8:4 | θ | 127.3G | θ | part | |
| -rootvg-tmplv | 253:0 | θ | 2G | θ | lvm | /tmp |
| -rootvg-usrlv | 253:1 | θ | 10G | θ | lvm | /usr |
| -rootvg-homelv | 253:2 | θ | 1G | θ | lvm | /home |
| -rootvg-varlv | 253:3 | θ | 8G | θ | lvm | /var |
| -rootvg-rootly | 253:4 | θ | 2G | θ | lvm | 1 |
| sdb | 8:16 | θ | 75G | θ | disk | |
| └_sdb1 | 8:17 | θ | 75G | θ | part | /mnt |

6. Use the pvscan command again to verify that the new size of the PV is as expected.

Compare the new size with the original [size / free space] values.

[root@12thDec2024 azureuser]# pvscan
 PV /dev/sda4 VG rootvg lvm2 [127.31 GiB / 104.31 GiB free]
 Total: 1 [127.31 GiB] / in use: 1 [127.31 GiB] / in no VG: 0 [0]

7. By using the *lvresize* commend, increase the size of the *root* partition as necessary.

In this example, the root is currently 2 GB. According to the table of <u>required</u> partition size, extra 18 GB need to be added.

```
# lvresize -r -L +18GB /dev/mapper/rootvg-rootlv
```

| [root@120 Size of File sy | thDec2024 azureuser]# lv f logical volume rootvg/ ystem xfs found on rootv | resize -r -L + rootlv changed g/rootlv mount | +1868 /dev/mapper/rootvg-rootlv d from 2.00 GiB (512 extents) to 20.00 GiB (5120 extents). ted at /. | | | | |
|--|--|--|--|--|--|--|--|
| Extend | ing file system xfs to 2 | 0.00 GiB (214) | 74836480 bytes) on rootvg/rootlv | | | | |
| xfs_grow | fs /dev/rootvg/rootlv | | | | | | |
| meta-data | a=/dev/mapper/rootvg-roo | tlv isize=512 | agcount=4, agsize=131072 blks | | | | |
| | = | sectsz=4096 | attr=2, projid32bit=1 | | | | |
| | = | crc=1 | finobt=1, sparse=1, rmapbt=0 | | | | |
| | = | reflink=1 | bigtime=1 inobtcount=1 nrext64=0 | | | | |
| data | = | bsize=4096 | blocks=524288, imaxpct=25 | | | | |
| | = | sunit=0 | swidth=0 blks | | | | |
| naming | =version 2 | bsize=4096 | ascii-ci=0, ftype=1 | | | | |
| log | =internal log | bsize=4096 | blocks=16384, version=2 | | | | |
| | = | sectsz=4096 | <pre>sunit=1 blks, lazy-count=1</pre> | | | | |
| realtime | =none | extsz=4096 | blocks=0, rtextents=0 | | | | |
| data blocks changed from 524288 to 5242880 | | | | | | | |
| xfs growfs done | | | | | | | |
| Extended file system xfs on rootva/rootly. | | | | | | | |
| Logical | l volume rootva/rootly s | uccessfully r | esized. | | | | |



You can run the lsblk command to verify that the rootvg-rootlv size has been increased accordingly.

8. The size of /opt also needs to be increased. However, in this example, /opt is part of the root partition.

To accommodate this, you may add further 20 GB to root and make this partition 40 GB.

| # _ | lvresize -r -L +2 | 0GB /dev/mapp | er/rootvg-rootlv | | | | | | | |
|--|--|--------------------|---------------------------------------|--|--|--|--|--|--|--|
| | | | | | | | | | | |
| [roo | <pre>[root@12thDec2024 azureuser]# lvresize -r -L +2068 /dev/mapper/rootvg-rootly</pre> | | | | | | | | | |
| ີ S i | Size of logical volume rootvg/rootly changed from 20.00 GiB (5120 extents) to 40.00 GiB (10240 extents). | | | | | | | | | |
| E i | ile system xfs found on | rootvg/rootly moun | ted at /. | | | | | | | |
| E | xtending file system xfs | to 40.00 GiB (429 | 49672960 bytes) on rootvg/rootlv | | | | | | | |
| xfs | growfs /dev/rootvg/root | lv | | | | | | | | |
| meta | a-data=/dev/mapper/rootv | g-rootly isize=512 | agcount=40, agsize=131072 blks | | | | | | | |
| | = | sectsz=4096 | attr=2, projid32bit=1 | | | | | | | |
| | = | crc=1 | finobt=1, sparse=1, rmapbt=0 | | | | | | | |
| | = | reflink=1 | bigtime=1 inobtcount=1 nrext64=0 | | | | | | | |
| date |) = | bsize=4096 | blocks=5242880, umaxpct=25 | | | | | | | |
| | = | sunit=0 | swidth=0 blks | | | | | | | |
| nami | ing =version 2 | bsize=4096 | ascii-ci=0, ftype=1 | | | | | | | |
| log | =internal log | bsize=4096 | blocks=16384, version=2 | | | | | | | |
| - | = | sectsz=4096 | <pre>sunit=1 blks, lazy-count=1</pre> | | | | | | | |
| real | ltime =none | extsz=4096 | blocks=0, rtextents=0 | | | | | | | |
| data | data blocks changed from 5242880 to 10485760 | | | | | | | | | |
| xfs_growfs_done | | | | | | | | | | |
| Extended file system xfs on rootvg/rootlv. | | | | | | | | | | |
| Lo | Logical volume rootvg/rootlv successfully resized. | | | | | | | | | |

If you have a separate /opt partition, then, increase it to 20 GB, instead of increasing root to 40 GB.



For example, if you have $\verb"rootvg-optlv"$ which is 2 GB, add 18 GB to it.

lvresize -r -L +18GB /dev/mapper/rootvg-optlv

9. Increase the size of /var as necessary.

Check how much disk space you have by using the pvscan command. Also, refer to the table of required partition size.

lvresize -r -L +<value>GB /dev/mapper/rootvg-varlv

Enter a required number in the <value>. For example, to add 66 GB:

lvresize -r -L +66GB /dev/mapper/rootvg-varlv

10. Use the following commends to verify whether the logical volumes have an increased file system size.



4. Install Secure Email Gateway

You can install the Secure Email Gateway software using the following instructions.

Install from the Clearswift online repositories

To install Secure Email Gateway from repositories hosted online by Clearswift, 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 do open a page from where you can copy the commands and scripts.)

```
Curl -Of https://cs-products.fortra.com/rhel9/seg/cs-rhel9-mir-
rors-1.0.0.rpm
```

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

3. Download and install the Clearswift 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-1.0.0.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. Move Microsoft Update Repos from /etc/yum.repos.d/ directory:

```
mv /etc/yum.repos.d/* /var/tmp
```

6. Install the downloaded repository-file packages:

dnf -y install cs-*.rpm

7. Remove rsyslog:

```
dnf -y remove rsyslog
```

8. Install the jemalloc package:

dnf install -y jemalloc --enablerepo=cs-*

9. Install the required product using the following command:

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>

- 10. Reboot Secure Email Gateway.
- 11. Go to the <u>Configure Gateway</u> chapter of this guide and continue.

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.

Over 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 <u>Red Hat Documentation</u>.

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 Fortra's Clearswift 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.

Set a password for Azure user

If you used an <u>SSH key</u> when you created the Azure virtual machine, you will need to set a user password, so that you can access Cockpit.

- 1. Connect to the VM using your SSH key.
- 2. Enter the following command:

passwd <username>

3. When prompted, enter the password.

You can now use the user name and password combination to log in to Cockpit.

Configure update repositories

By default, the Clearswift 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 Clearswift. From Product Actions > Enable online repositories, click Enable.

To check and install future updates

1. Navigate to **Software updates** to check and install updates.

Create administrator accounts

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.

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.

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 <u>Configure Gateway</u> 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 <u>SSH Access</u> in the Online Help for more information.

Contact Fortra

For more information about the Fortra's Clearswift products and cybersecurity solutions, please visit our <u>website</u>.

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

<u>Fortra Support Portal</u> offers various helpful resources, such as product documentation and knowledge articles. You can also contact our Technical Support, using the Fortra Support 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.