

Installation Guide

Clearswift Secure ICAP Gateway Amazon Machine Image (AMI)

Version 5.5.0

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Before you begin

We recommend being familiar with Amazon Web Services, Amazon Machine Images (AMI), and the AWS Marketplace before you deploy a Clearswift Gateway AMI.

For further information on getting started with AWS, see <https://docs.aws.amazon.com/marketplace/latest/buyerguide/buyer-getting-started.html>.



You will need to create or sign into an AWS Marketplace account before deploying Clearswift Secure ICAP Gateway.

Installing Secure ICAP Gateway on AWS

Sign in and subscribe

1. Make sure you are signed into AWS Marketplace with your AWS account credentials.



AWS Marketplace provides access to thousands of products, including AMIs for the Clearswift and HelpSystems products.

Use <https://aws.amazon.com/> to create an account or sign in.

2. Navigate to the Clearswift Secure ICAP Gateway product page.
The **Product Overview** displays information about Secure ICAP Gateway.
3. Click **Continue to Subscribe**.



AWS offers AMIs on a subscription basis. Clearswift Secure ICAP Gateway uses a BYOL (Bring Your Own License) model.

4. Click **Continue to Configuration**.

Configure this software

The page displays various implementation options for the software you have subscribed to.

1. Select the following:
 - **Delivery Method:** 64-bit (x86) Amazon Machine Image
 - **Software Version:** 5.5.0
 - **Region:** an appropriate regional data center for your organization



AWS Regions may vary according to proximity and cost, and should be selected carefully.

2. Click **Continue to Launch**.

Launch this software

There are two options for launching the software. We recommend using the Amazon Elastic Compute Cloud (EC2). EC2 is a web service that provides scalable capacity for your machines.

Select **Launch through EC2**. This loads the AMI into your AWS account and enables you to select your sizing requirements.

Choose an Instance Type

The **Choose an Instance Type** page displays a number of available options for building your machine.

1. You can select any of the following for either a test or production workload.

Instance	vCPU	CPU Credits/hour	Mem (GiB)	Storage	Network Performance (GB/s)
t3.large	2	36	8	EBS only	up to 5
t3.xlarge	4	96	16	EBS only	up to 5
t3.2xlarge	8	192	32	EBS only	up to 5
t3a.large	2	36	8	EBS only	up to 5
t3a.xlarge	4	96	16	EBS only	up to 5
t3a.2xlarge	8	192	32	EBS only	up to 5



Use a **large** instance for a test environment and an **xlarge** instance for production workloads.

2. Click **Next: Configure Instance Details**.

Configure Instance Details

The **Configure Instance Details** page includes a number of configuration options.



AWS customers are required to perform all the necessary security configuration and management of their EC2 machines. This includes OS patching and AWS firewall configuration. For further information, see <https://aws.amazon.com/compliance/shared-responsibility-model/>.



For further information on getting started with Amazon VPC, see <https://docs.aws.amazon.com/vpc/latest/userguide/vpc-getting-started.htm>.



For information on how to achieve peering within the Gateways, see [Peering within the Gateways](#).

1. In the **Subnet** section, choose an existing subnet from your VPC that matches your requirements.
2. Disable the **Auto-assign Public IP** using the drop-down (**use subnet setting (Disable)**).
3. In **Network**, enter an IP address in the **Primary IP** field, or leave the field empty for an auto-assigned IP address.
4. Configure any additional options as required.
5. Click **Next: Add Storage**.

Add Storage

The **Add Storage** page enables you to configure your device storage settings.



Use the default devices provided with the AMI. These have been specifically partitioned for the deployment of Secure ICAP Gateway. You can increase the **Size (GiB)** but you should not change the **Device** or **Snapshot ID**.

1. Configure options as required.
2. Click **Next: Add Tags**.

Add Tags

On the **Add Tags** page, you can tag the name of your instance.

1. Add a corresponding key and a value, then **Add Tag**.
2. Click **Next: Configure Security Group**.

Configure Security Group

On the **Configure Security Group** page, you can select a security group to control traffic for your instance. Select the following, including port numbers:

- **SSH - 22**: Configure **Source** to restrict access to your valid IP addresses.
- **HTTPS - 443**: Configure **Source** to restrict access to your valid IP addresses.
- **ICAP - 1344**: Configure **Source** to restrict access to your valid IP addresses.
- **TCP/UDP - 9090**: Configure **Source** to restrict access to the Red Hat Cockpit UI.



When configuring security group **Source**, make sure you set rules to allow access from known IP addresses only.

Key Pair

Select or create a key pair to ensure secure connection to your AMI.

Launch your instance

Click **Launch Instances**.

The user interface takes a few minutes to start.



It may take approximately 15-30 minutes for the anti-virus to install and update. We recommend that you monitor the status of the ICAP Server service from **System > Service Control** page. The anti-virus installs appear in the **Upgrade Service** log. The status of the ICAP Server service will change from 'Failed' to 'Started', indicating progress.


Peering within the Gateways

You can now deploy additional Gateway instances to provide resilience and scalability. Your Gateways can be peered together so that you can manage them all from a single point.

To do this:

1. On the **Configure Instance Details** page, select the desired value of **Number of instances**.
2. Expand the **Advanced Details** section. Copy the following script and paste it into the **User data** field.



You can copy the script by clicking  below. This will open a new browser window where the script can be copied from.



```
#!/bin/bash
```

```
NEWUUID=`uuidgen`
```

```
echo "machine.uuid=$NEWUUID" > /opt/cs-gateway/cfg/system-id.-  
properties
```

```
xmlstarlet ed -L -u "/System/@uuid" -v "$NEWUUID" /var/cs-gate-  
way/uicfg/system.xml
```

```
xmlstarlet ed -L -u "/System/PeerAppliances/Peer/@uuid" -v  
"$NEWUUID" /var/cs-gateway/uicfg/system.xml
```

After you launch

When you have launched your AMI, navigate to the Secure ICAP Gateway installation wizard.



To access the interface, open a supported web browser and navigate to the IP address of your Secure ICAP Gateway:
<https://<ip-address>/Appliance>

The Clearswift Secure ICAP Gateway installation process begins. For information on installation from this point onwards, refer to the [Installation and Getting Started Guide](#), (Configuring Secure ICAP Gateway section).

Configure access to Red Hat Cockpit

Before you access the Secure ICAP Gateway's user interface, you must configure your Gateway's Linux user to access Red Hat Cockpit.

1. Access the SSH key pair.
2. Log in to the virtual machine using SSH, for example:

```
ssh -i keyPair.pem ec2-user@<ip-address>
```

3. Create a password for the root user in order to access Cockpit, for example:

```
sudo -i
```

```
passwd
```



Enter the following URL into a supported web browser to load the Cockpit administration user interface:
<https://<ip-address>:9090>

You have now installed your Secure ICAP Gateway and you should follow the instructions in [Red Hat Cockpit](#) to complete the configuration process.

Upgrade

If you are upgrading your current version of Clearswift Secure ICAP Gateway on AWS, refer to the [Installation and Getting Started Guide](#) for detailed instructions.