

## **Installation Guide**

### **Clearswift Secure ICAP Gateway Amazon Machine Image (AMI) with AWS**

**Version 5.2.0**

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## Before you begin

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We recommend being familiar with Amazon Web Services, Amazon Machine Images (AMI), and the AWS Marketplace before you deploy a Clearswift Gateway AMI. You can find out more on getting started with AWS here:

<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 the Clearswift Secure ICAP Gateway.

# Installing your Gateway on AWS

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## 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 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 the Gateway.
3. Click **Continue to Subscribe**.



AWS offers AMIs on a subscription basis. The 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:** 5.2.0
  - **Region:** the appropriate regional data-centre 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 size

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

## Configure instance details



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. You can find out more information here:

<https://aws.amazon.com/compliance/shared-responsibility-model/>

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

**Step 3. Configure Instance Details** includes a number of configuration options.



Use the Getting Started with Amazon VPC for more detailed information.

<https://docs.aws.amazon.com/vpc/latest/userguide/vpc-getting-started.htm>

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

## Add Storage

**Step 4. Add Storage** 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 the Clearswift Gateway . You can increase the **Size (GiB)** but you should not change the **Device** or **Snapshot ID**.

## Add Tags

You can use **Add Tags** to tag the name of your instance. Add a corresponding key and a value, then **Add Tag**.

## Configure Security Group

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/UPD - 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 UI takes a few minutes to start.



## After you launch

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



To access the interface, open a web browser with the IP address as your Gateway UI, for example: `https://10.11.12.13`

The Clearswift Secure ICAP Gateway installation process begins. For information on installation from this point onwards, please refer to the [Installation and Getting Started Guide](#), section 3.3.

### Configure access to Red Hat Cockpit

Before you access the Gateway UI, 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
```



To access the interface, open a web browser with the same IP address as your Gateway UI, on port **9090**, for example: `https://10.11.12.13:9090/`

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