



Deploying the Assembler in AWS

Version 1.0

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Howdy! This guide describes how to deploy the Assembler in AWS . This replaces *Step 2: Set up the Expel Assembler* in Getting Started with Expel. For everything else, follow [Getting Started with Expel](#).

You may need to do things differently than described in this procedure based on how you use AWS.

Getting access to the Expel Assembler AMI

1. Send your AWS account ID and the AWS region(s) in which you want to deploy an Assembler to your engagement manager
2. Your engagement manager will let you know when the Expel Assembler AMI is shared with your account

Launch an instance from the Expel Assembler AMI

1. Go to the AWS EC2 console at <https://console.aws.amazon.com/ec2/>
2. Choose **AMIs** from the left-hand navigation pane
3. Change the image selector drop-down to “Private Images”
4. Select the latest Expel Assembler image with owner 555836951224 (Expel’s AWS Account ID)
5. Click **Launch**
6. Choose an instance type of **t2.large** (Expel may later ask you to resize to t2.xlarge if the number and types of security devices you onboard require additional resources)
7. Modify other instance parameters at your discretion. **The Expel Assembler image allows inbound SSH from all addresses. Expel recommends assigning the Assembler to a Security Group that restricts inbound SSH to your authorized IP addresses**
8. Click **Review and Launch**
9. Click **Launch**
10. Choose a key pair that you will use to log into the Assembler

Register the Assembler in Expel Workbench

1. In Expel Workbench, click on Settings in the top navigation bar
2. You should see a box with the **Assembler Name and Location** fields — if not, click the **Add Assembler** button
3. Enter the **Assembler Name and Location** for the Assembler. It's best to choose names that will be meaningful to both you and to Expel so you can easily identify the Assembler in the user interface (e.g. ACME HQ)
4. Click **Save**
5. Note the Install Code for the newly registered Assembler. You will need this in the next section to activate the Assembler
6. If you want to add another Assembler, click the **Add Assembler** button and repeat the previous steps

Activate the Assembler

1. SSH to the **expel** account on the instance you just launched
2. **Activate the Assembler** by supplying the 8-character install code created in the previous step:

```
ssh expel@<hostname>
```

```
sudo expelmanage -activate <eight-character install code>
```

You should see output like this:

```
[expel@hostname ~]$ sudo expelmanage --activate abcd1234
Activation code set
Regenerating SSH keys
Activated
[expel@hostname ~]$
```

3. Run **exit** to log out of the Assembler



Authorize the Assembler in Expel Workbench

Within 30 seconds of activating the Assembler with a matching install code, the Assembler you registered at <https://workbench.expel.io/settings/assemblers> will change status from **Not Yet Connected** to **Connected**, and an Authorize button will appear for the Assembler. Once this happens, click the **Authorize** button.

Expel will now automatically configure the Assembler. This process takes between 10 and 30 minutes. When complete, the status will change to **Active**.

To complete onboarding, return to [Getting Started with Expel](#) and follow *Step 3: Register your Security Devices*.

That's it! Give yourself a pat on the back — you're done!

If you have any issues, concerns, questions or feedback, please don't hesitate to contact Expel at devicehealth@expel.io.