

Due to SES requirements, all Atlassian accounts must be linked to an active UWE email account. Any accounts without the necessary UWE email will no longer receive Confluence email notifications.

How To: EC2 - Launch an EC2 Instance

Created by Cameron Magee, last modified by Paul Kishter on May 17, 2024

⚠ Regarding backups: While eVo provides a variety of mechanisms for you to back up your EC2 instances, we do not automatically back them up. We recommend you set up snapshots, AMIs, or AWS Backup to preserve the configuration of important systems. For information on AWS Backup, see [How To: Backup](#)

⚠ Regarding subnet selection: Be aware that a project in eVo has "public" subnets (has "public" in the name) and "private" subnets (may have "private" in the name, or names just like "us-east-subnet-1"). The intent was for "public" to be for services shared across eVo, but those distinctions have morphed over time. However, at this time, instances in the private subnets have a more direct network path and will experience less network latency. We recommend you put instances in the private subnets whenever possible.

⚠ Regarding login options: There are at least three ways you can log into an EC2 instance

1. Username/password login, which is configured and controlled by eVo automation
2. SSH keys (the key you specified before spinning up the instance)
3. Session Manager - see [How To: EC2 - Connect to EC2 instances with Session Manager](#)

Overview

There are many AMIs available to be launched in EC2. The AMI details are below. Only approved AMIs that have been secured and hardened by eVo are permitted for use in the environment. AMIs from the Amazon Marketplace are restricted.

Once an image is launched and provisioning is complete, you should be able to use your Active Directory username and password to login.

Note: RHEL7/CentOS7 will be removed 6/30/24 as they are EOL on that date.

Ubuntu 18 was removed 10/31/23 as it was EOL.

AMI Name	OS	Approximate Time Until AD Login	Date Updated
eVo_AMI_AmazonLinux2	Amazon Linux 2	3 minutes	Updated Daily
eVo_AMI_CentOS7	CentOS 7	5 minutes	Updated Daily
eVo_AMI_EKS_Amazon2	EKS Amazon Linux 2	3 minutes	Updated Daily
eVo_AMI_Ubuntu20	Ubuntu 20.04 LTS	5 minutes	Updated Daily

eVo_AMI_DeepLearning_Ubuntu	DeepLearning Ubuntu	7 minutes	Updated Daily
eVo_AMI_DeepLearning_Amazon	DeepLearning Amazon	4 minutes	Updated Daily
eVo_AMI_Windows2016	Windows Server 2016	10 minutes	Updated Daily
eVo_AMI_Windows2019	Windows Server 2019	12 minutes	Updated Daily
eVo_AMI_RHEL7	Red Hat Enterprise Linux 7	5 minutes	Updated Daily
eVo_AMI_RHEL8	Red Hat Enterprise Linux 8	5 minutes	Updated Daily

RHEL8 INFO

Patches for the operating system are enabled for these instance. There are are few enabled repositories enabled already. You'll see errors like the below

Updating Subscription Management repositories.
Unable to read consumer identity

This system is not registered with an entitlement server. You can use subscription-manager to register.

NOTE: this should not prevent patching of the OS

To enable the Red Hat CodeReady Linux Builder for RHEL 8 please run

```
sudo dnf config-manager --set-enabled codeready-builder-for-rhel-8-rhui-rpms
```

To see what is enabled repository wise you can run this

```
sudo yum repolist
```

```
repo id
ansible-2-for-rhel-8-rhui-rpms
codeready-builder-for-rhel-8-rhui-rpms
RHUI
epel
rhel-8-appstream-rhui-rpms
rhel-8-baseos-rhui-rpms
rhui-client-config-server-8
saltstack
```

```
repo name
Red Hat Ansible Engine 2 for RHEL 8 (RPMs) from RHUI
Red Hat CodeReady Linux Builder for RHEL 8 x86_64 (RPMs) from
Extra Packages for Enterprise Linux 8 - x86_64
Red Hat Enterprise Linux 8 for x86_64 - AppStream from RHUI (RPMs)
Red Hat Enterprise Linux 8 for x86_64 - BaseOS from RHUI (RPMs)
RHUI Client Configuration Server 8
SaltStack latest Release Channel for RHEL/CentOS 8
```

Further info:

<https://aws.amazon.com/partners/redhat/faqs/>

<https://www.redhat.com/en/blog/introduction-appstreams-and-modules-red-hat-enterprise-linux>

Step-by-step Guide for spinning up EC2 instances

1. [Log into Kion](#) to access your project's AWS Console
2. Once in the AWS Console, search or click on the **EC2** service.
3. Make sure you are in the **US East (N. Virginia)** region. If you are in the Oregon or Ohio regions (see menu at the top right), change to **N. Virginia**.
4. On the EC2 Dashboard, select **Launch Instance**.
5. On the screen, '**Name and tags**' give your instance a descriptive name for identification in the EC2 dashboard and add additional tags if you like.
6. On the screen, '**Application and OS Images (Amazon Machine Image)**', select **My AMIs**.
7. Select '**Shared with me**'
8. Under '**Amazon Machine Image (AMI)**', click on the down arrow to the right to see a list of all EVO AMI's that you can use.
9. You may choose any one of the AMIs listed here. This list will provide all approved AMIs for use in eVo.

▼ Application and OS Images (Amazon Machine Image) [Info](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Search our full catalog including 1000s of application and OS images

My AMIs | Quick Start

☐ Owned by me ☒ Shared with me

[Browse more AMIs](#)
Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

eVo_AMI_AmazonLinux2-v2.0.5-202212190531-packerbuilt
ami-0eb08d159f11e5196
2022-12-19T05:33:39.000Z Virtualization: hvm ENA enabled: true Root device type: ebs

Description
-

Architecture	AMI ID
x86_64	ami-0eb08d159f11e5196

Number of instances [Info](#)
1

Software Image (AMI)
eVo_AMI_AmazonLinux2-v2.0.5-20...[read more](#)
ami-0eb08d159f11e5196

Virtual server type (instance type)
t2.micro

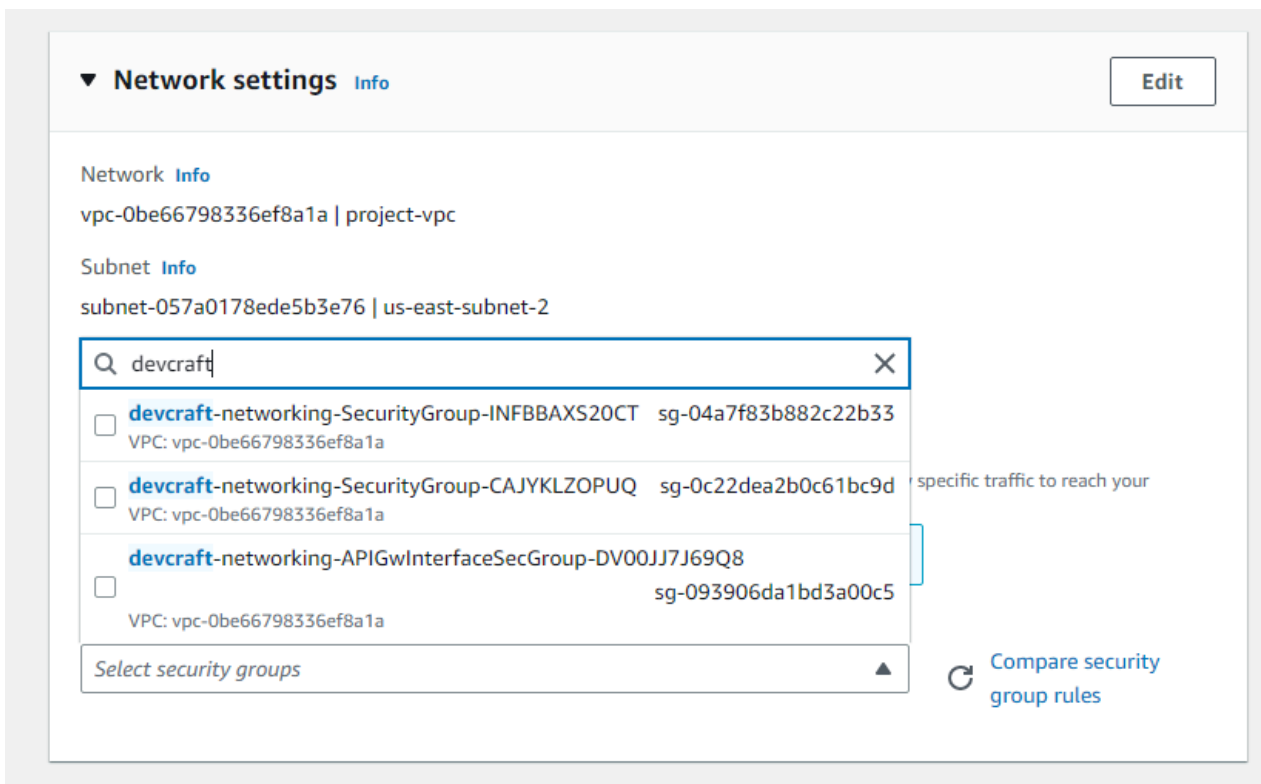
Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel [Launch instance](#)

10. On the screen, **Instance Type**, select the appropriate instance type. The list of allowed instance types is here: [AWS Policies and Allowed Services](#)
11. When prompted to select a keypair, you can select any option. If you choose to "Proceed without a key pair", your AD credentials must be used to login to the instance. Otherwise, you may follow this [guide](#) to create a key pair.
12. On the screen, **Network Settings**, You'll see '**Firewall (Security Groups)**' click: **Select an existing security group**.
13. In the search box '**Select security groups**', type in '**Devcraft**' and select the group: **devcraft-networking-SecurityGroup-XXXXXXXXXX** (the X will be random letters). Select either of the two you see listed.



a.

b. **NOTE** - avoid using the "default" Security Group, as this is tied to a VPC that no longer exists.

14. On the screen, **Add Storage**, you can make changes to the storage size and type that you want to attach to your EC2 instance. After the time period listed at the top of this page (about 5 minutes), you should now be able SSH into your instance using the Private IP, and providing your eVo username and password when prompted.
15. On the screen, **Advanced Details**, select '**IAM instance profile**' and then select/search for the "**evoforge-user**" IAM role to attach to your EC2 instance. This will allow programmatic access to preassigned key pairs and access to the AWS Command Line Interface (CLI). You also have the ability to create your own roles - see [How To: IAM Roles](#)
16. You may then select and modify all the other options under Advanced Details that you want to customize. Otherwise, leave everything else on the default setting.
17. Review all the settings and ensure all options are correct and then click on "**Launch Instance**" at the bottom of the page.

Related articles

[How To: EC2 - Launch an EC2 Instance](#)

[How To: Backup](#)

[Amazon WorkSpaces](#)

[01/27/2020 - RDS Database reboots](#)

[aws](#) [ec2](#) [kb-how-to-article](#)