

Lesson 03 Demo 01

Creating an AMI Image

Objective: To create an AMI from an Amazon EC2 instance

Tools required: AWS workspace

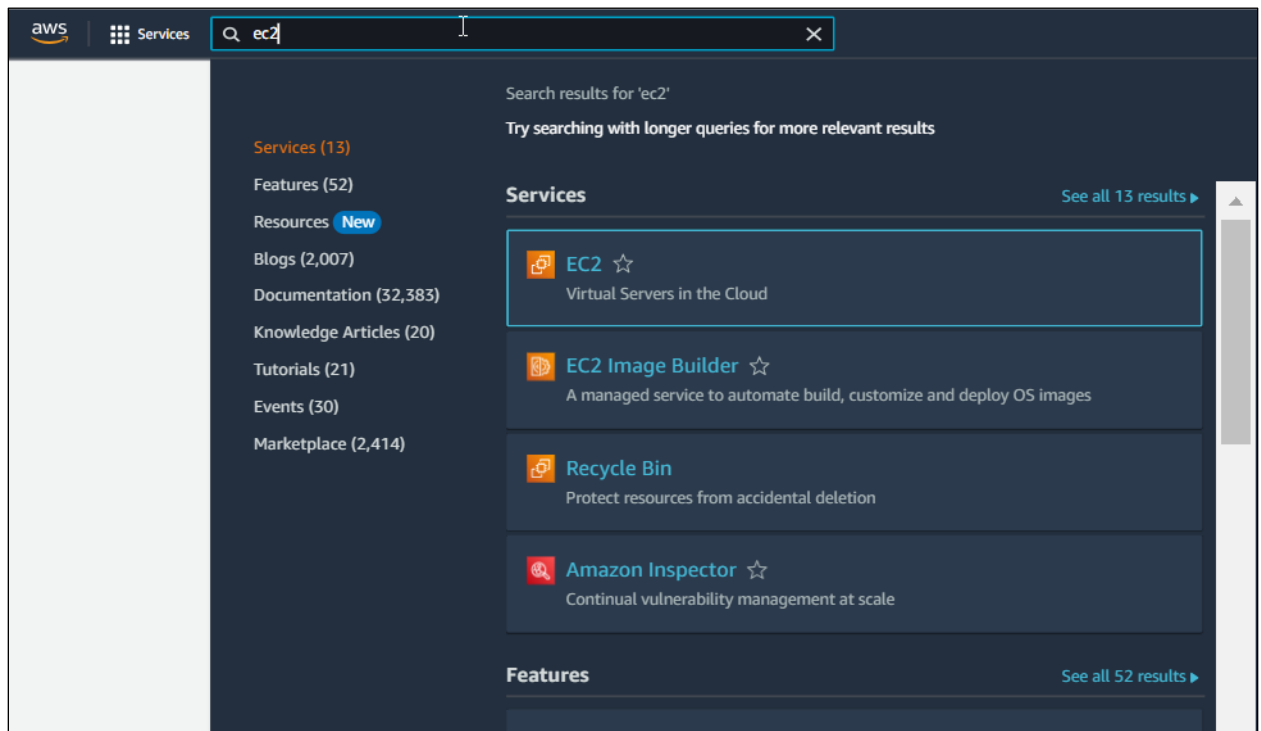
Prerequisites: None

Steps to be followed:

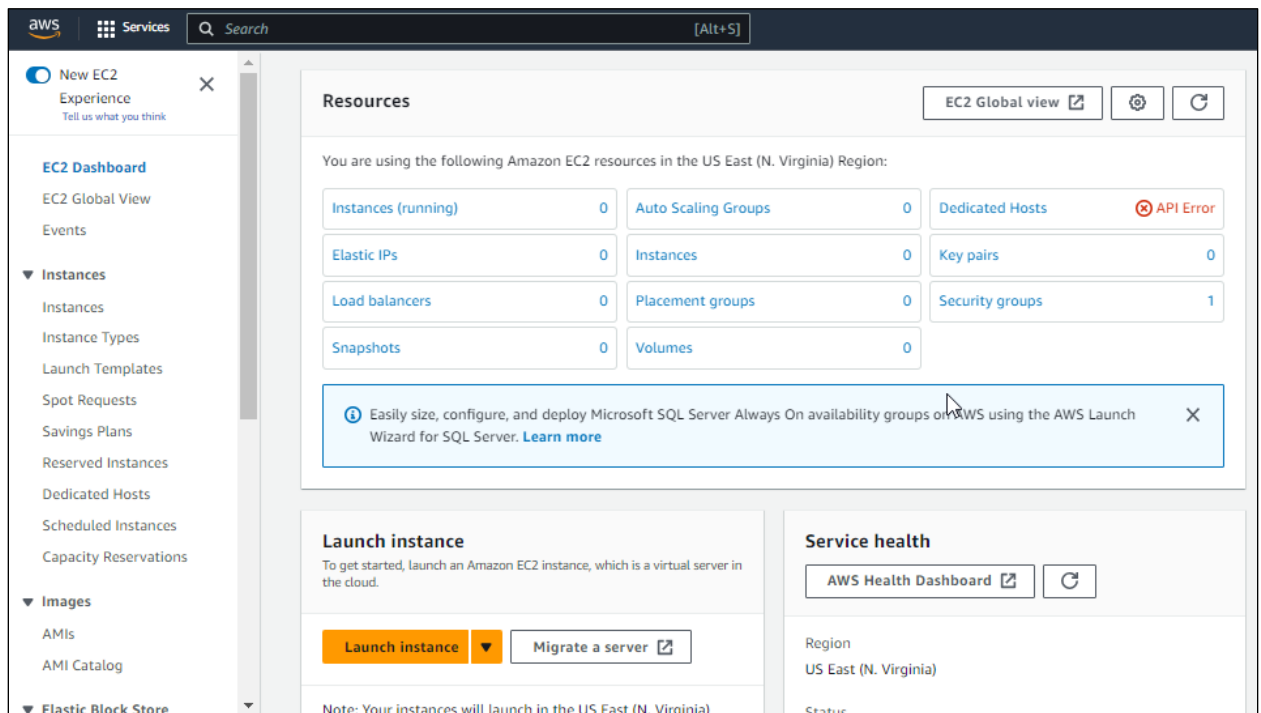
1. Create an AMI image

Step 1: Create an AMI image

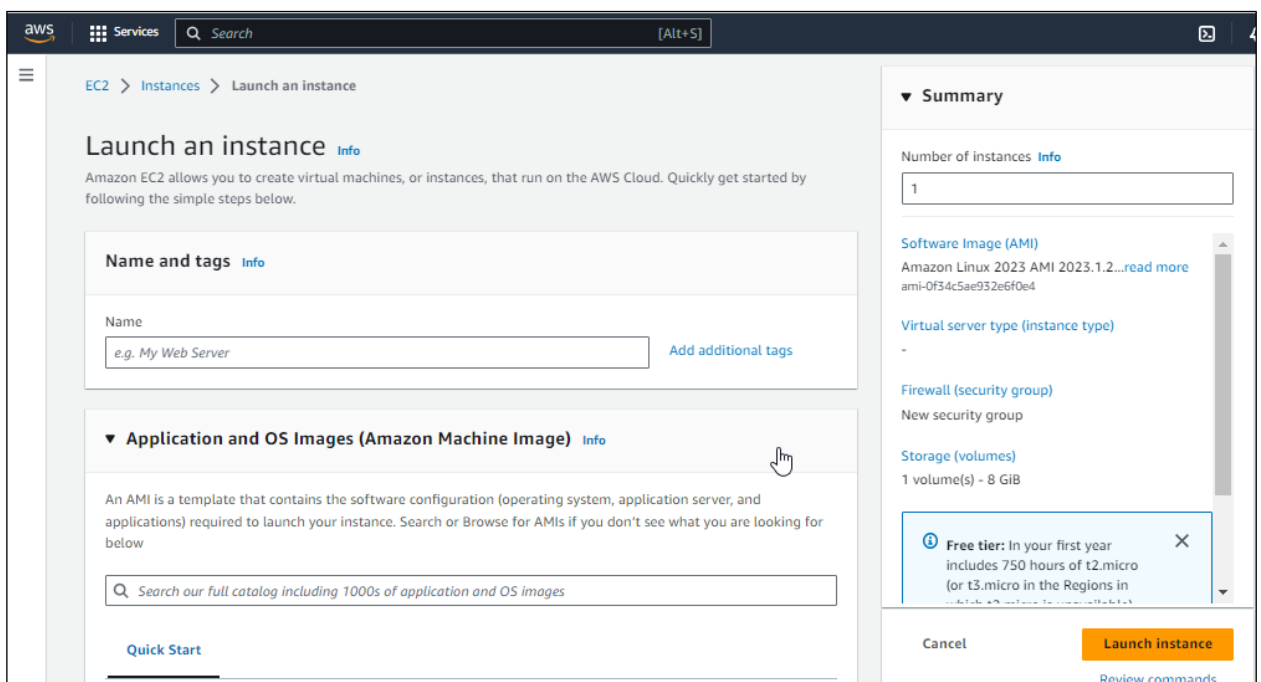
1.1 Open the AWS Console Home dashboard, click the search option, and enter **EC2**



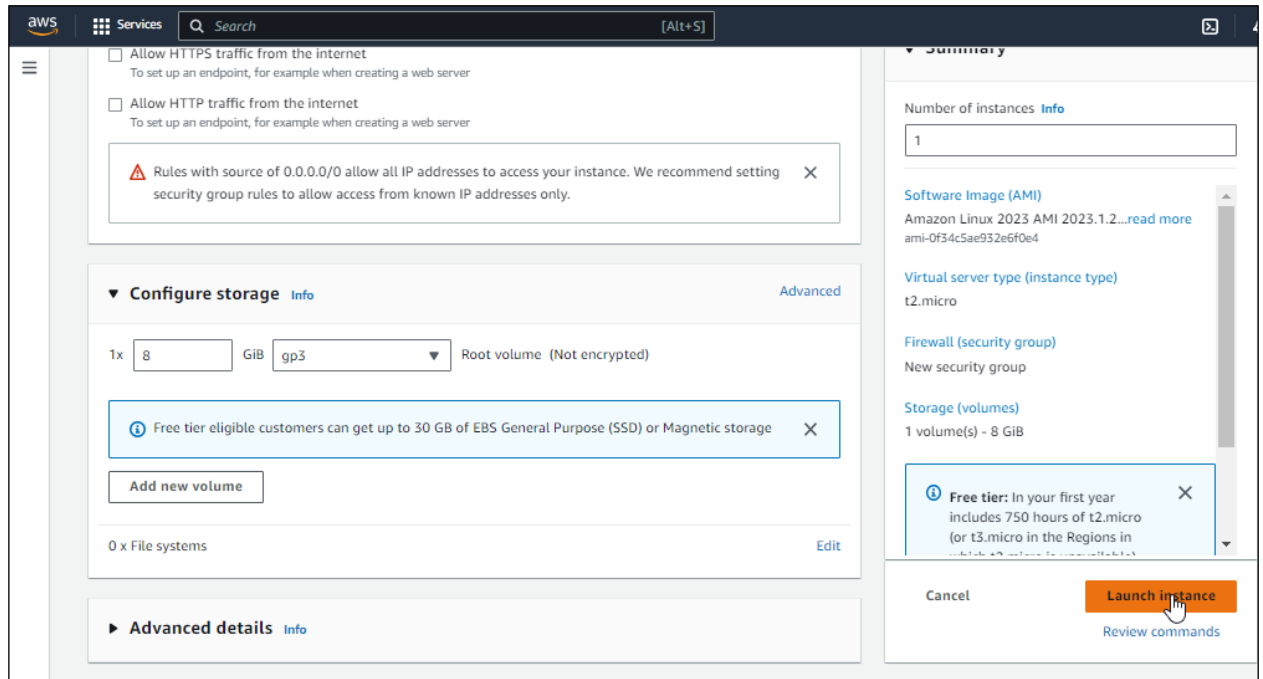
1.2 Select **EC2** to be redirected to the **New EC2 Experience** dashboard



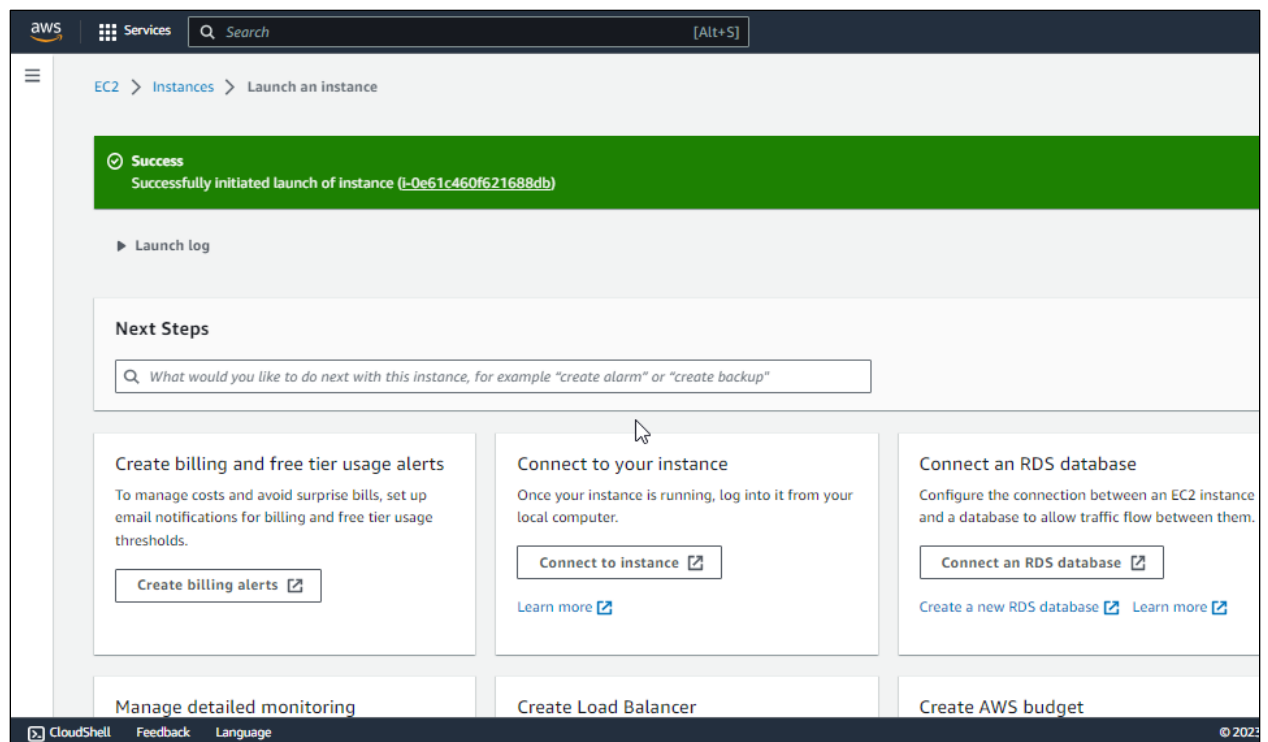
1.3 Select **Launch instances** to create an instance. On clicking **Launch an instance**, the following page appears:



1.4 Once the details are filled, select **Launch instance**. Also, if required, create a new key pair.



1.5 Once the **Success** message appears on the screen, navigate to **Instances**



1.6 Select the instance, and then select **Image and templates** from **Actions**

The screenshot shows the AWS Management Console 'Instances' page. The instance 'myNewInstance' (ID: i-0e61c460f621688db) is in the 'Running' state. The 'Actions' dropdown menu is open, and 'Image and templates' is highlighted. The instance details are visible below the table.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
myNewInstance	i-0e61c460f621688db	Running	t2.micro	Initializing	No alarms	us-east-1a

Instance: i-0e61c460f621688db (myNewInstance)

Instance summary

- Instance ID: i-0e61c460f621688db (myNewInstance)
- IPv6 address: -
- Hostname type: -
- IP name: ip-172-31-91-106.ec2.internal
- Public IPv4 address: 100.24.31.247 | [open address](#)
- Instance state: Running
- Private IP DNS name (IPv4 only): ip-172-31-91-106.ec2.internal
- Private IPv4 addresses: 172.31.91.106
- Public IPv4 DNS: ec2-100-24-31-247.compute-1.amazonaws.com | [open address](#)

1.7 Select **Create image** from **Image and templates**

The screenshot shows the 'Actions' dropdown menu for the instance 'myNewInstance'. The 'Image and templates' option is selected, and the 'Create image' sub-option is highlighted. The instance details are visible below the table.

Status check	Alarm status	Availability Zone
Initializing	No alarms	us-east-1a

Actions

- Connect
- View details
- Manage instance state
- Instance settings
- Networking
- Security
- Image and templates**
 - Create image
 - Create template from instance
 - Launch more like this
- Monitor and troubleshoot

1.8 On the **Create image** page, fill in the details as shown in the screenshot

Create image [Info](#)

An image (also referred to as an AMI) defines the programs and settings that are applied when you launch an EC2 instance. You can create an image from the configuration of an existing instance.

Instance ID
i-0e61c460f621688db (myNewInstance)

Image name
atw-linux-2
Maximum 127 characters. Can't be modified after creation.

Image description - optional
Linux server
Maximum 255 characters

No reboot
☐ Enable

Instance volumes

Storage type	Device	Snapshot	Size	Volume type	IOPS	Throughput	Delete on termination	Encrypted
EBS	/dev/...	Create new snapshot fr...	8	EBS General Purpose S...	3000		<input checked="" type="checkbox"/> Enable	<input type="checkbox"/> Enable

1.9 Click on the **Create image** option

Instance volumes

Storage type	Device	Snapshot	Size	Volume type	IOPS	Throughput	Delete on termination	Encrypted
EBS	/dev/...	Create new snapshot fr...	8	EBS General Purpose S...	3000		<input checked="" type="checkbox"/> Enable	<input type="checkbox"/> Enable

[Add volume](#)

During the image creation process, Amazon EC2 creates a snapshot of each of the above volumes.

Tags - optional
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

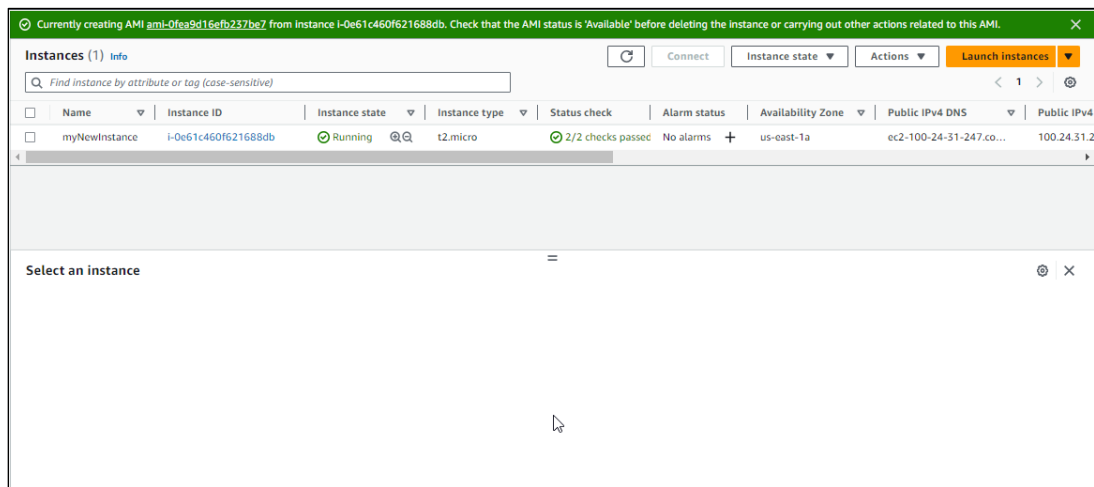
☒ Tag image and snapshots together
Tag the image and the snapshots with the same tag.

☐ Tag image and snapshots separately
Tag the image and the snapshots with different tags.

No tags associated with the resource.

[Add new tag](#)
You can add up to 50 more tags.

[Cancel](#) [Create image](#)



The AMI image is created successfully.

By following these steps, you will be able to successfully create an AMI image, enhancing your ability to manage and replicate EC2 instances effectively.