7. Program Perform an experiment to create a custom AMI from AWS EC2

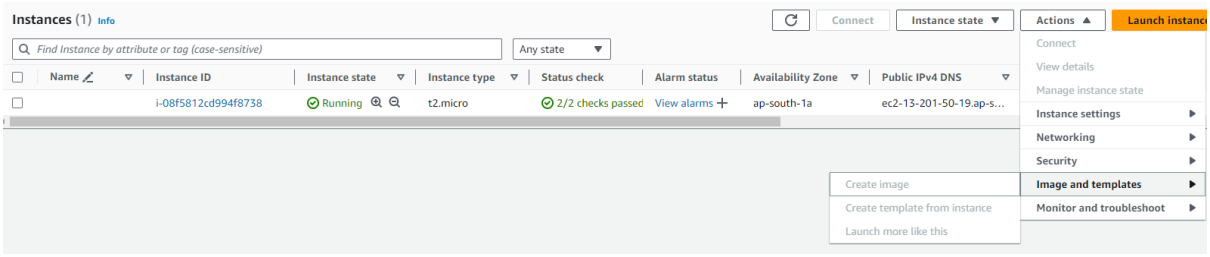
Steps to create an AMI

**Step1 ->Open the Amazon EC2 console**

1. at https://console.aws.amazon.com/ec2/.

2. In the navigation pane, choose Instances.

3. Select the instance from which to create the AMI, and then choose Actions, Image and templates, Create image.

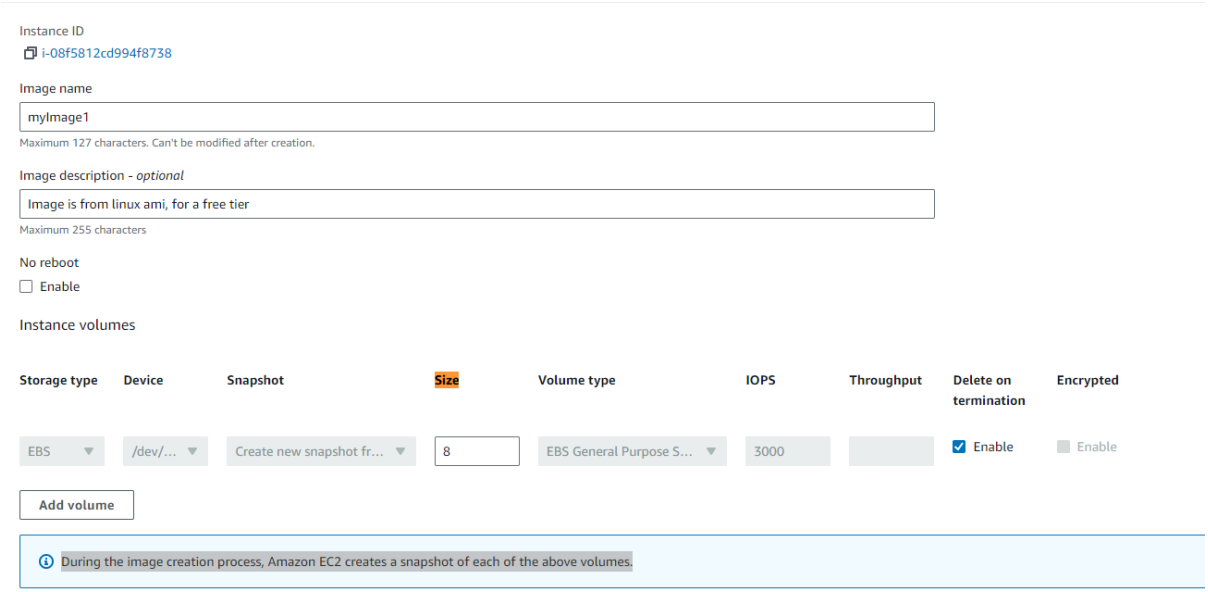



**Step 2->**

1. On the Create image page, specify the following information:

2. For Image name, enter a unique name for the image, up to 127 characters.

3. For Image description, enter an optional description of the image, up to 255 characters.




## Step 3->For No reboot

1. either keep the Enable check box cleared (the default), or select it.

Warning

If you choose to enable No reboot, we can't guarantee the file system integrity of the created image.

## Step 4-> Instance volumes

1. You can modify the root volume, and add additional Amazon EBS and instance store volumes, as follows: The root volume is defined in the first row. To change the size of the root volume, for Size, enter the required value. (leave to default 8)

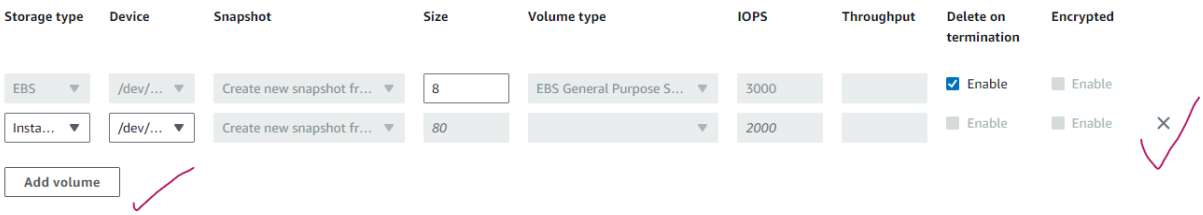
## Step5 -> Delete on Termination

1. select Delete on termination, when you terminate the instance created from this AMI, the EBS volume is deleted.

Warning

If you clear Delete on termination, when you terminate the instance, the EBS volume is not deleted.

## Step 6 (optional)

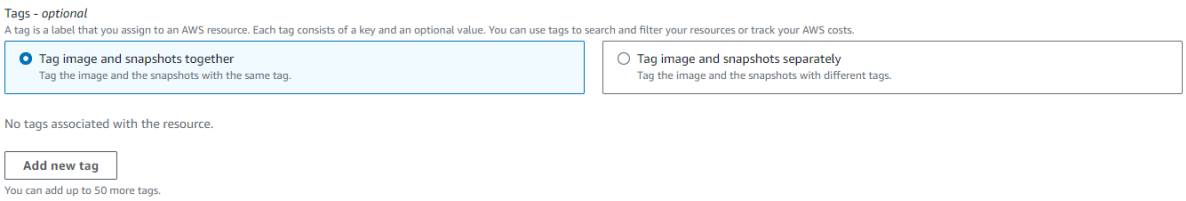



1. To add an EBS volume, choose Add volume (which adds a new row). For Storage type, choose instance store, and you can't fill in the fields in the row. (When you launch an instance from your new AMI, additional volumes are automatically attached to the instance. Empty volumes must be formatted and mounted. Volumes based on a snapshot must be mounted.)
2. To avoid costs Press X

## Step 7 (optional) -> Tags –

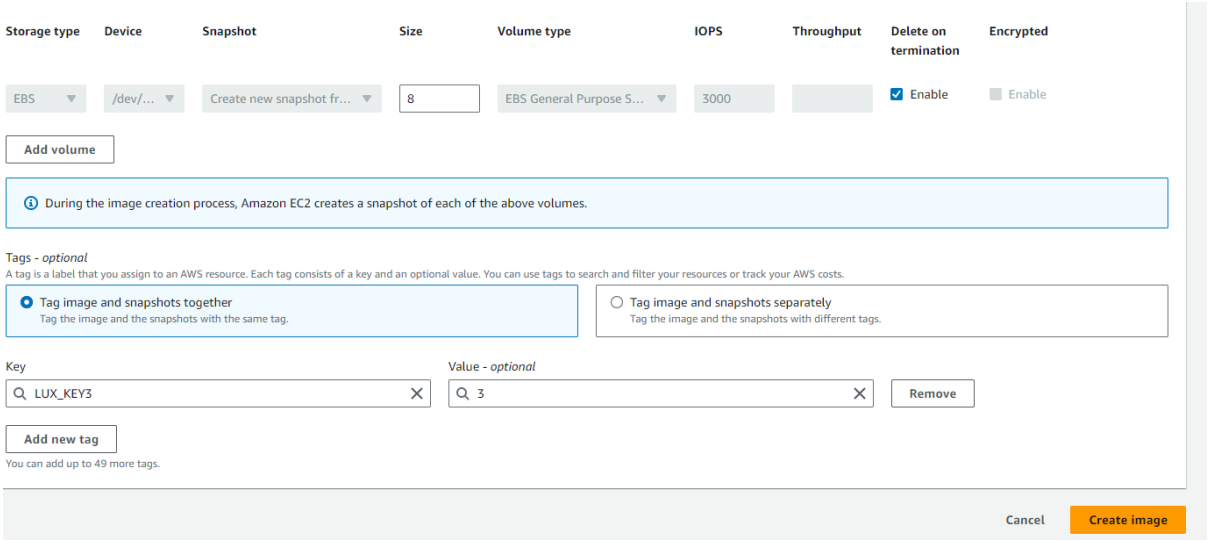
You can tag the AMI and the snapshots with the same tags, or you can tag them with different tags.

To add a tag, choose Add tag, and enter the key and value for the tag. Repeat for each tag.




## Step 8 ->

When you're ready to create your AMI, choose Create image.



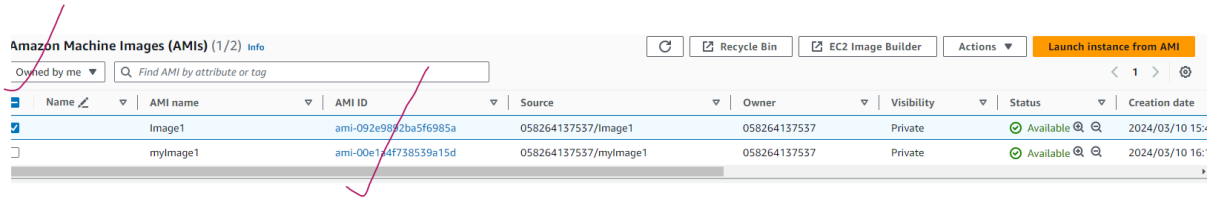

To view the status of your AMI while it is being created:

**Step 9 ->**

In the navigation pane, choose AMIs.

Set the filter to Owned by me, and find your AMI in the list.

Initially, the status is pending but should change to available after a few minutes.
Note down the AMI ID



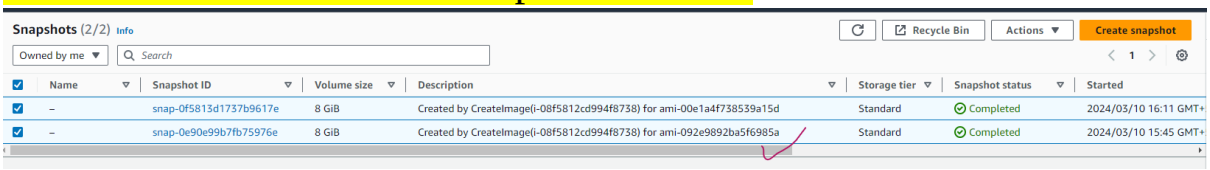

**Step 10->**

To view the snapshot that was created for the new AMI:

Note the ID of your AMI that you located in the previous step.

In the navigation pane, choose Snapshots.

Set the filter to Owned by me, and then find the snapshot with the new AMI ID in the Description column.




## Step 11-> Mandatory -> Cleanup/Terminate/delete the Instances & AMI to avoid free tier limits/costs for your AWS account!

Before clean up, take a screenshot of the time of creating the AMI and show it to the lab instructor. You will also use this screen shot and steps above to create your own record note steps ahead in time

## Additional task->

When you launch an instance from this AMI, Amazon EC2 uses this snapshot to create its root device volume.
Create a Linux AMI from a snapshot
If you have a snapshot of the root device volume of an instance, you can create an AMI from this snapshot using the AWS
More interested diy:

- Create a custom Windows AMI
- Create an AMI (Linux)