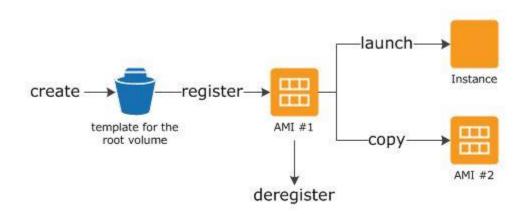
LAB-4 AMI, SNAPSHOTS AND ELASTIC IP'S

We have seen launching windows and linux instances in our previous lab's

This Lab we are going to see how to take AMI (Image of a running instance) its our own custom AMI.

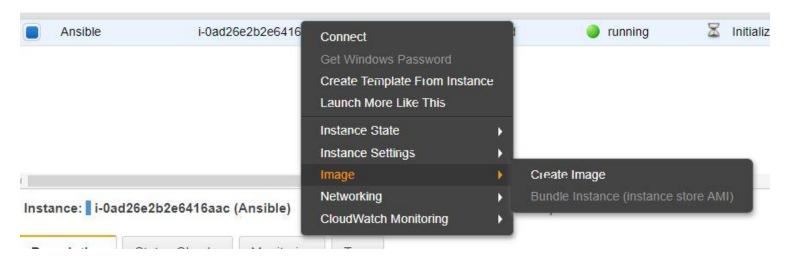


We can create our own AMI of our running instance and launch it later if our current instance fails.

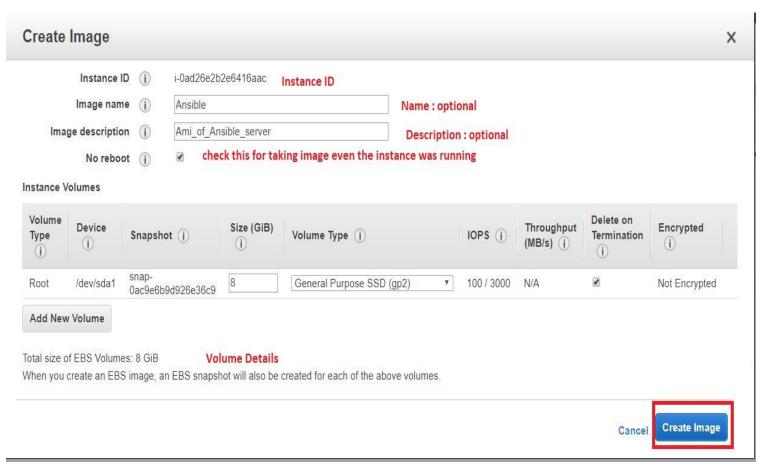
- We can share our AMI to another AWS accout.
- We can copy our AMI to another region.
- While creating AMI snapshot also created, it contain the volume of the current disk.
- We can shedule our snapshots daily for instances and remove old one.
- We can launch instance snapshot by creating image from snapshot.
- Follow the below steps for compleating this Lab sessions.

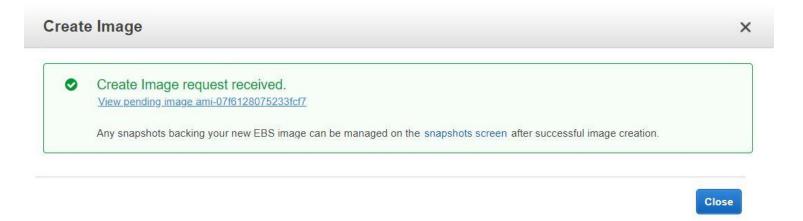
AMI –AMAZON MACHINE IMAGE

Step1: Right click the instance and go to image > create image

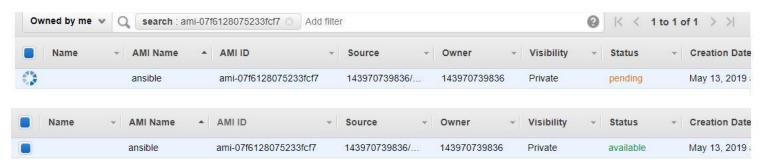


Step 2: fill the details of image

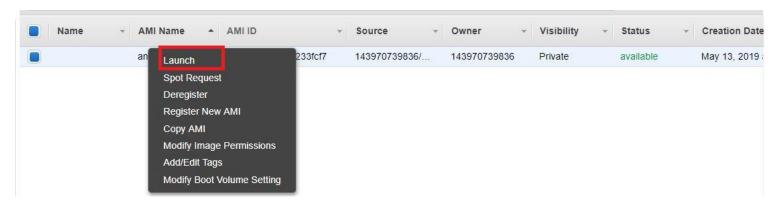




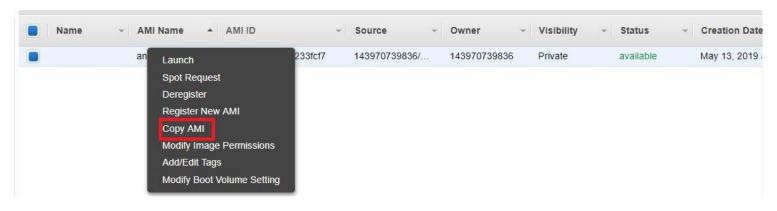
Step 3: Check the Status of image once it come to available state the AMI is ready.

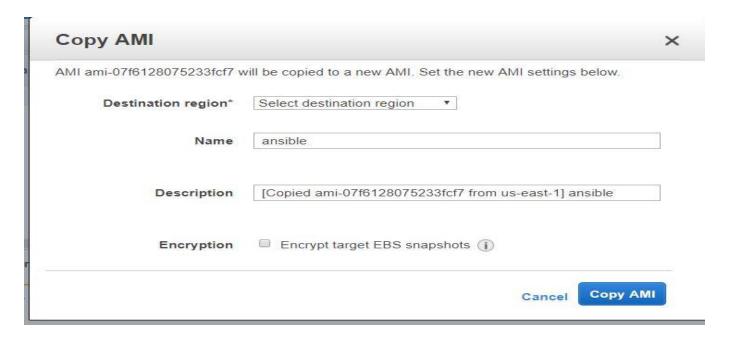


Step 4: now you can launch the instance from Image



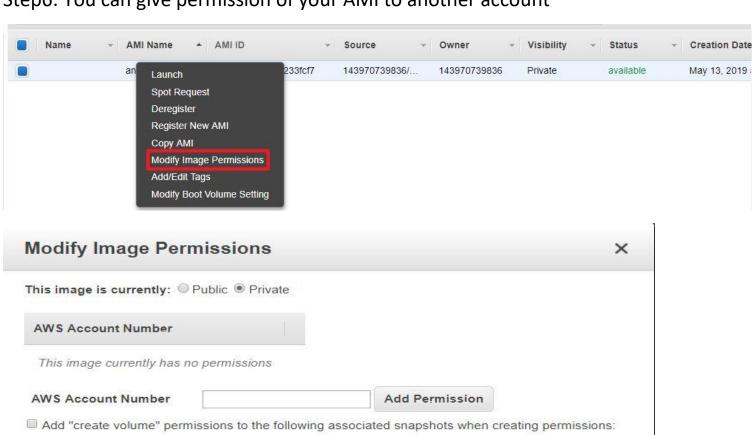
Step5: You Can copy image to another Region





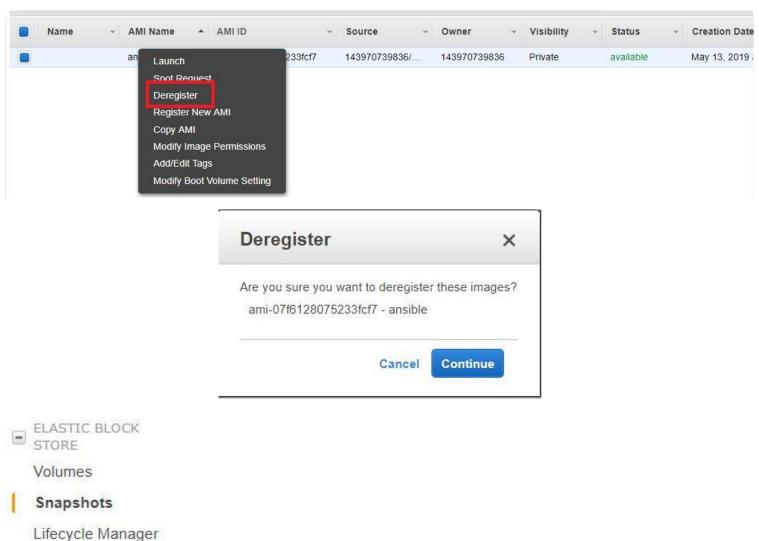
Step6: You can give permission of your AMI to another account

snap-06ea6b03d15ab44e2



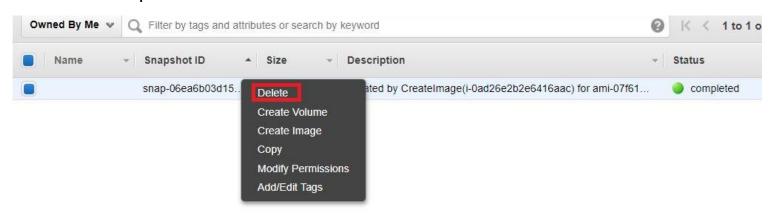
Cancel

Step 7: To delete a AMI you have to deregister AMI and then selete snapshot also.



Go To Snapshots

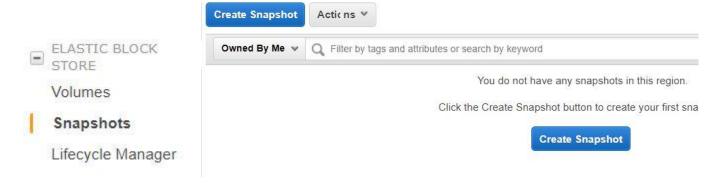
Delete the Snapshot



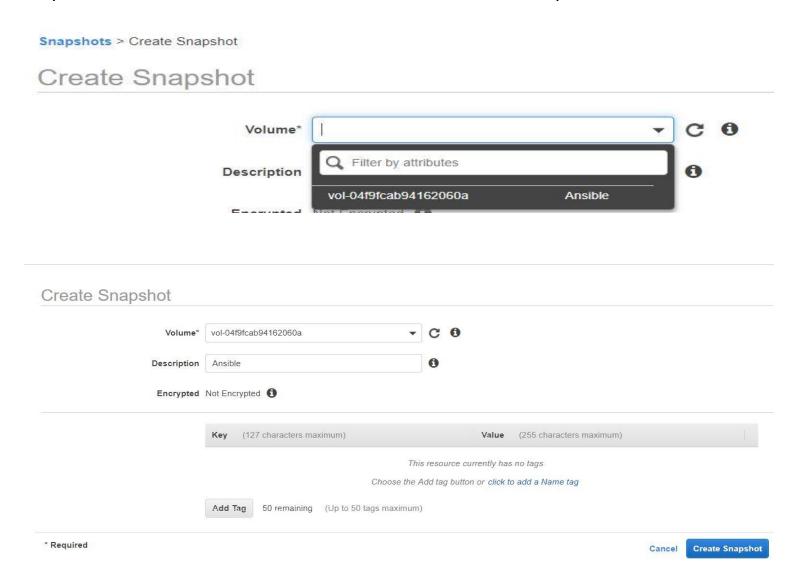
SNAPSHOTS

We can create a snapshot and we can launch instance from snapshot by creating image.

Step 1: Go to snapshot click create snapshot.



Step2: Give the Volume of instance which needed to take snapshot and other details



Step3: Once you click the **create snapshot** the snapshot created.

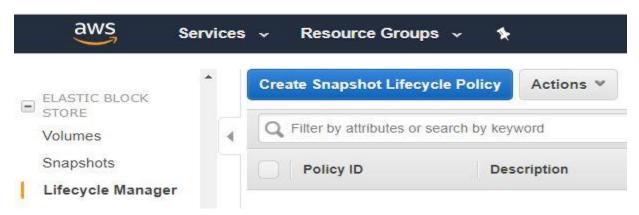
Step4: click create Image option to create AMI from snapshot.



Sheduled snapshot – LIFECYCLE POLICY

Step 5: We can shedule time to create snapshot daily.

Click Life Cycle Manager and Click Create Snapshot Lifecycle Policy.



Provide the Name tag of the instance to be taken snapshot regularly

| cy | | |
|--|---|--|
| cycle Policy | | |
| s will help you automate the creation an | d deletion of EBS snapshots based on | a schedule. Volumes are targeted by tags |
| test | Optional | |
| | | • |
| Name : Ansible | | olicy. f server need to taken snapshot |
| | cycle Policy s will help you automate the creation and test This policy will be applied to volumes will you cannot use tags that are in use by a | cycle Policy s will help you automate the creation and deletion of EBS snapshots based on test Optional This policy will be applied to volumes with any of the following tags. You cannot use tags that are in use by another enabled or disabled lifecycle p |

Provide Timing details

Policy Schedule

| Schedule name* | Default Schedule Name | | |
|------------------|-----------------------|-----------|--|
| Run policy every | 24 🔻 | Hours | 1 Time gap between each snapshot |
| Starting at | 09:00 | UTC | Starting time its in UTC |
| | Snapshots start | being cr | eated within one hour of the specified start time. |
| Retention rule | Number of snap | shots tha | at will be retained. 1 |
| * | 1 | N | umber of snapshots should be availble |

Add the naming Tag's

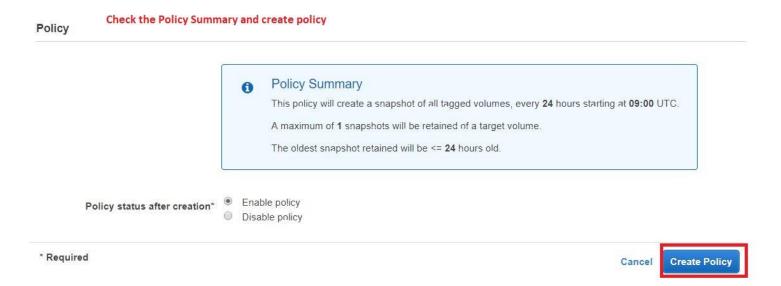
Tag created EBS snapshots Any snapshot created with this policy will automatically be tagged with the policy ID and schedule name. Copy Tags from volume Additional tags Key (127 characters maximum) This resource currently has no tags Choose the Add tag button or click to add a Name tag Add Tag 50 remaining (Up to 50 tags maximum)

Choose another role

IAM role This policy needs to be associated with an IAM role that has snapshot create and delete permissions, if you are unsure what IAM role to use, select the AWS Default role.

Default role

If EBS default role is not present, one will be automatically created with all needed permissions. View Default role

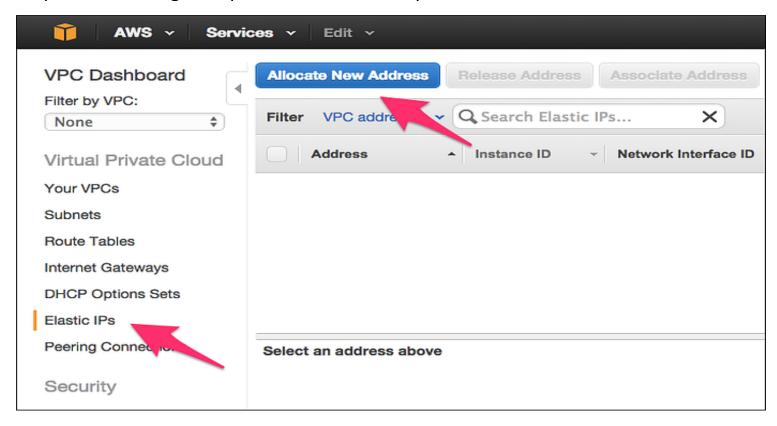


Once the policy created the snapshot will be automatically triggered.

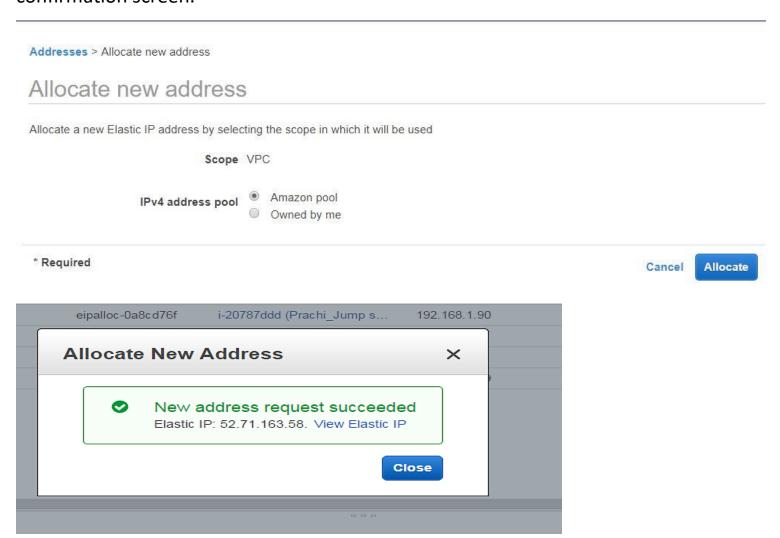
Elastic IP:

Elastic Ip is a purchased Static public ip in AWS we can allocate that to any of our instance.

Step 1: In the navigation pane, choose Elastic Ips and choose Allocate new address.

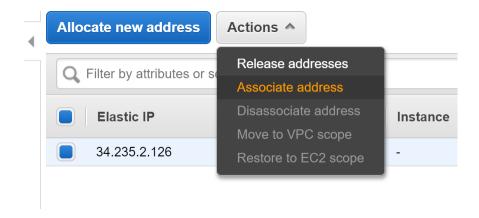


Step 2: For IPv4 address pool, choose **Amazon pool**. Choose Allocate, and close the confirmation screen.



Associate IP to a instance

Step 3: Right click the EIP and click Associate Address to allocate it to a instance



Provide the Instance details

Addresses > Associate address

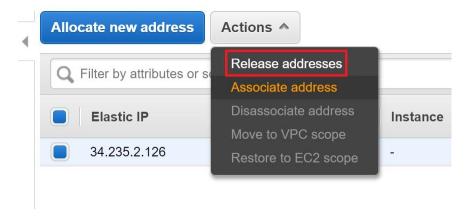
Associate address

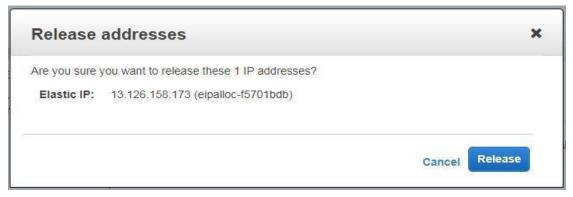
Select the instance OR network interface to which you want to associate this Elastic IP address (34.235.2.126)



The EIP will allocated to the instance

To Release IP Click Release address





-----End Of the Document-----