Amazon Web Services

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Launching Instances (Tasks)

INTRODUCTION

AWS provides cloud computing platforms and API's to individuals and companies on pay-as-you-go basis.

It offers reliable, scalable and inexpensive cloud services.

AMAZON EBS

It is an Amazon Elastic Block Store (Amazon EBS) is an easy-to-use, scalable, high-performance block-storage service designed for Amazon Elastic Compute Cloud (Amazon EC2).

EBS Snapshots

EBS Snapshots are a point-in-time copy of your data, and can be used to enable disaster recovery, migrate data across regions and accounts, and improve backup compliance.

TASK GIVEN

You work for XYZ Corporation. Your corporation wants to launch a new web-based application using AWS Virtual Machines. Configure the resources accordingly with appropriate storage for the tasks.
Tasks To Be Performed:
1. Launch a Linux EC2 instance.
2. Create an EBS volume with 20 GB of storage and attach it to the created EC2 instance.
3. Resize the attached volume and make sure it reflects in the connected Instance.
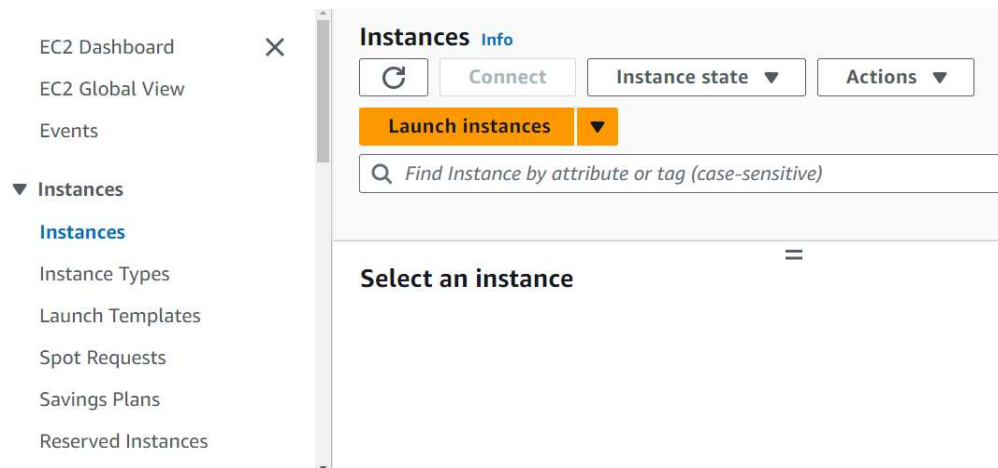
TASK 1:

Launch a Linux EC2 instance.

1. Login in the AWS account and then redirect to the EC2 dashboard.
2. Select the region in which we need to create the instance. Here I'm selecting the region US-East-1 (N. Virginia).
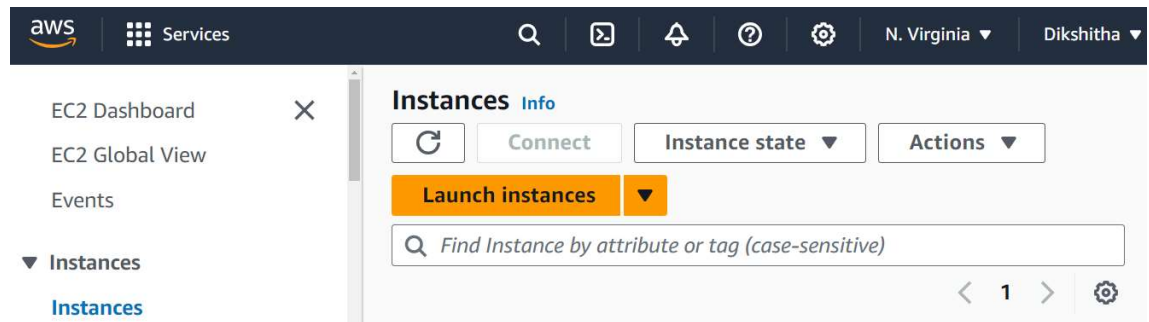
3. We can find the Instances tab on the left menu, tap on it and then tap on "Launch Instances".

4. Give a name to the instance, select the Application and OS Images (Amazon Machine Image) and instance type (I selected t2.micro).
5. Next comes the Key pair. If we have already created key pair values then we can select them if not we need to create the new key pair.

6. Next is about the network settings. If we allow SSH traffic then it means it is available at port 22 and also allow http protocol to work on web servers.

7. The further step is about the storage configuration. We can select it according to our needs.

8. Once everything is done, click on launch instance.

TASK 2:

Create an EBS volume with 20 GB of storage and attach it to the created EC2 instance.

1. To create the EBS Volume, from the left menu select

Elastic Block Store —> Volumes

Create a volume with 20GB space.

If we want we can edit the name of the volume

I changed it to "ebsvolume"

Now select the volume and go to the actions button. Tap on attach volume

Attach the volume to the created instance within the same availability zone.

We can check it by redirecting to the instances page and selecting the instance.
In the storage tab we can see the attached volumes.

TASK 3:

Resize the attached volume and make sure it reflects in the connected Instance.

Go to the EBS Volume and select the volume for which the storage size to be resized.

Tap on modify

I changed it to 30GB.
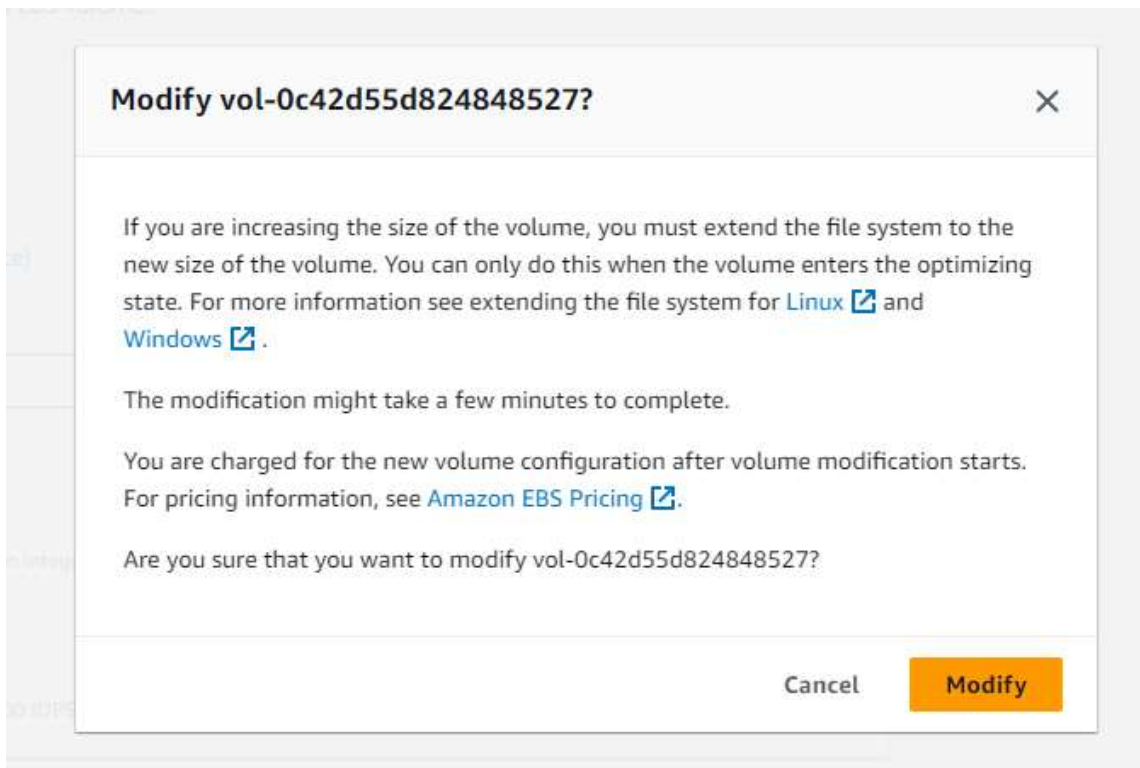
The modified volume reflected in the instance storage
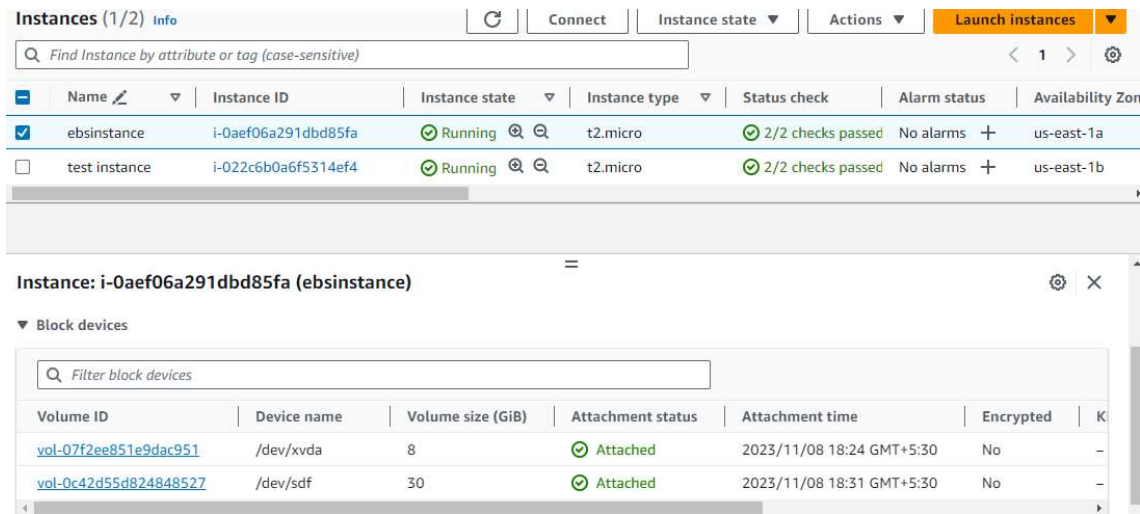
Conclusion:

I launched the instance and created an EBS volume within the same availability zone.
And even modified the volume storage and checked if it has been reflected in the
instance.