ASSIGNMENT-1

Create a VPC with 2 subnets and 2 routetables and internet gateway

- Launch 3 instances
- Attach 1 instance with EBS
- Attach 2 instances with EFS

For this assignment first we have to create vpc

Create a virtual Private Cloud(vpc)

Open your AWS account and search for vpc in search space of AWS homepage

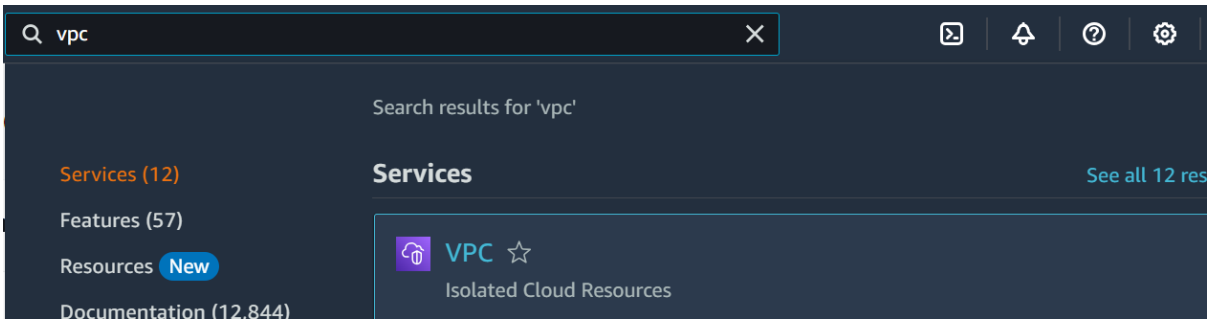

Fig. 1

Click on VPC which is shown above (Fig. 1)

Now click on Create VPC to Create our custom VPC (Fig. 2)

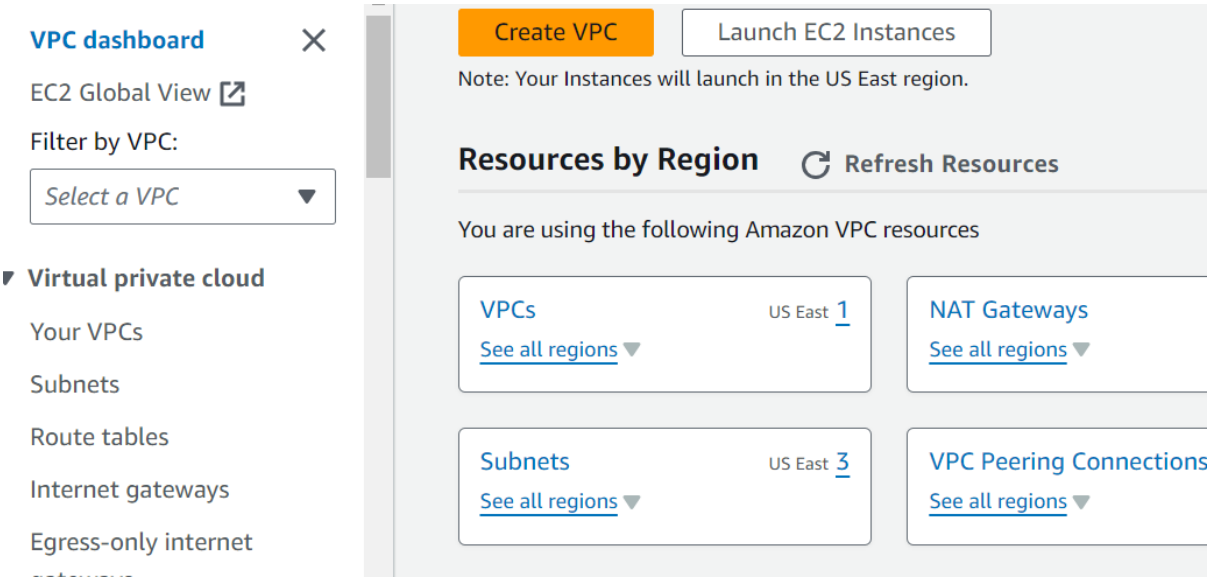

Fig. 2

Now fill the all details after then finally click on Create VPC(Fig. 3)

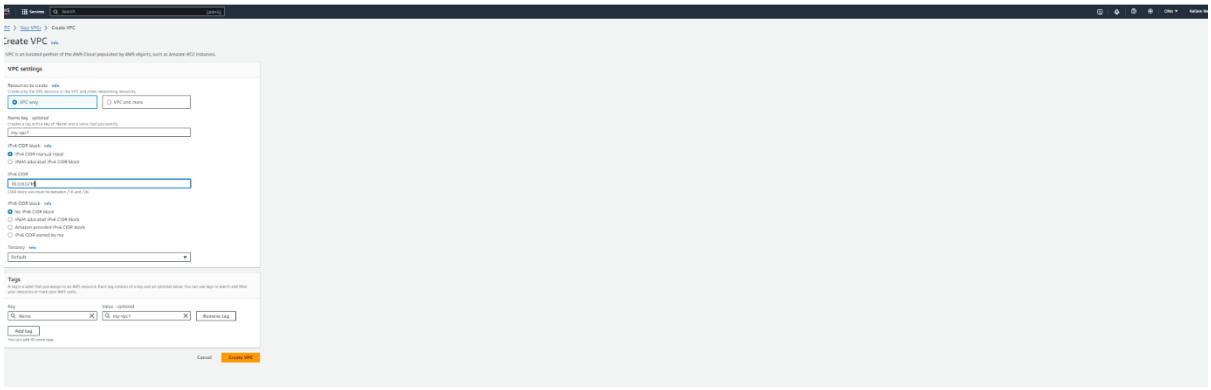

Fig. 3

Now we created a custom VPC successfully

Now click on Create Subnets to our custom VPC (Fig. 4)

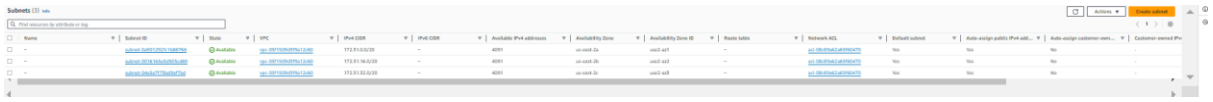

Fig. 4

Create two subnets, one is public and another one is private

Here we have to select our custom VPC and after then fill all details, finally create subnet

Public subnet(Fig. 5)

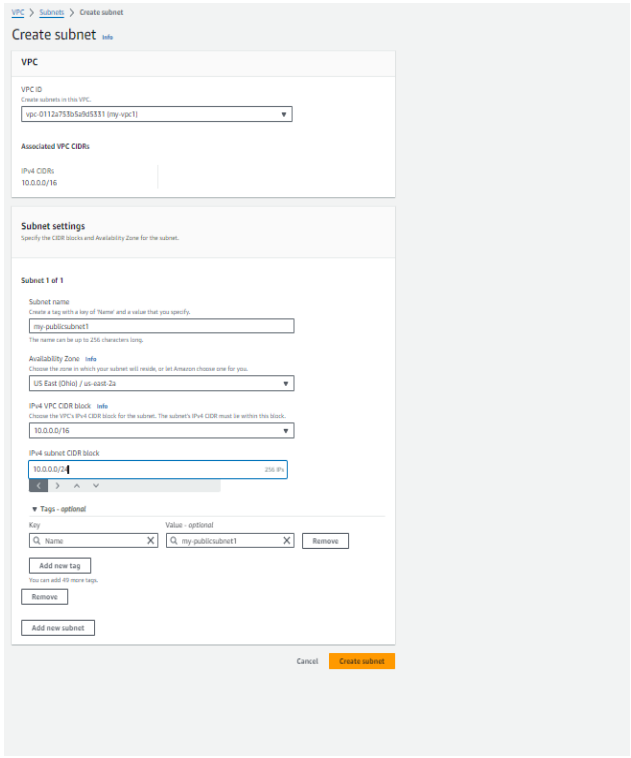

Fig. 5

Private subnet(Fig. 6)

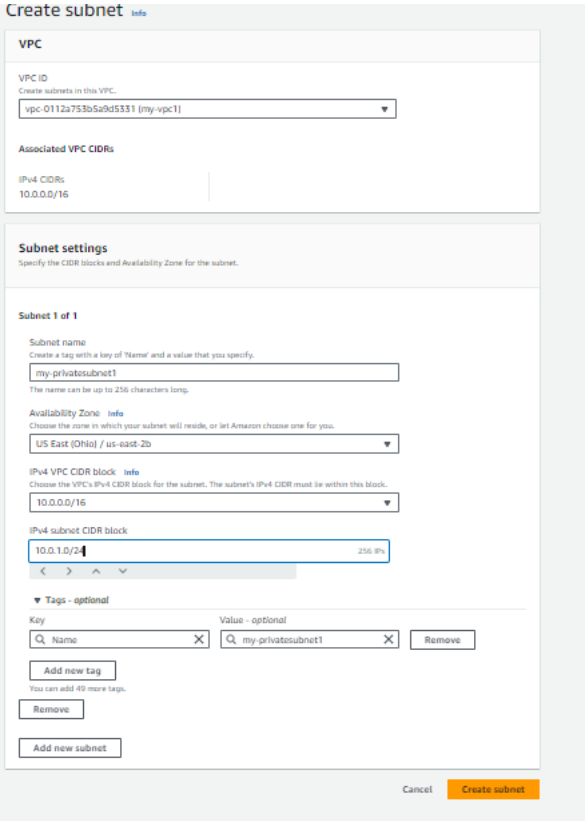

Fig. 6

Now we created two subnets to our custom VPC successfully (Fig. 7)

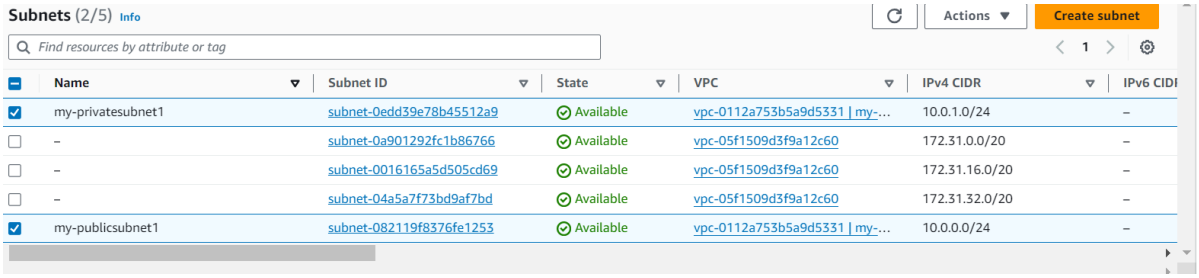

Fig. 7

Now click on Internet gateway from menu bar and create Internet gateway (Fig. 8)

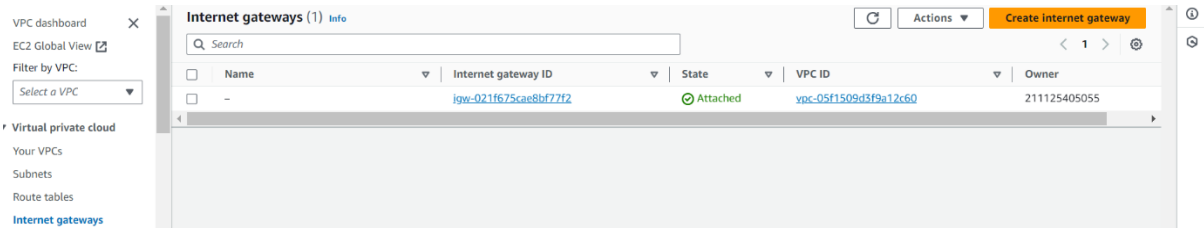

Fig. 8

Give name to our internet gateway and finally click on Create Internet gateway(Fig. 9)

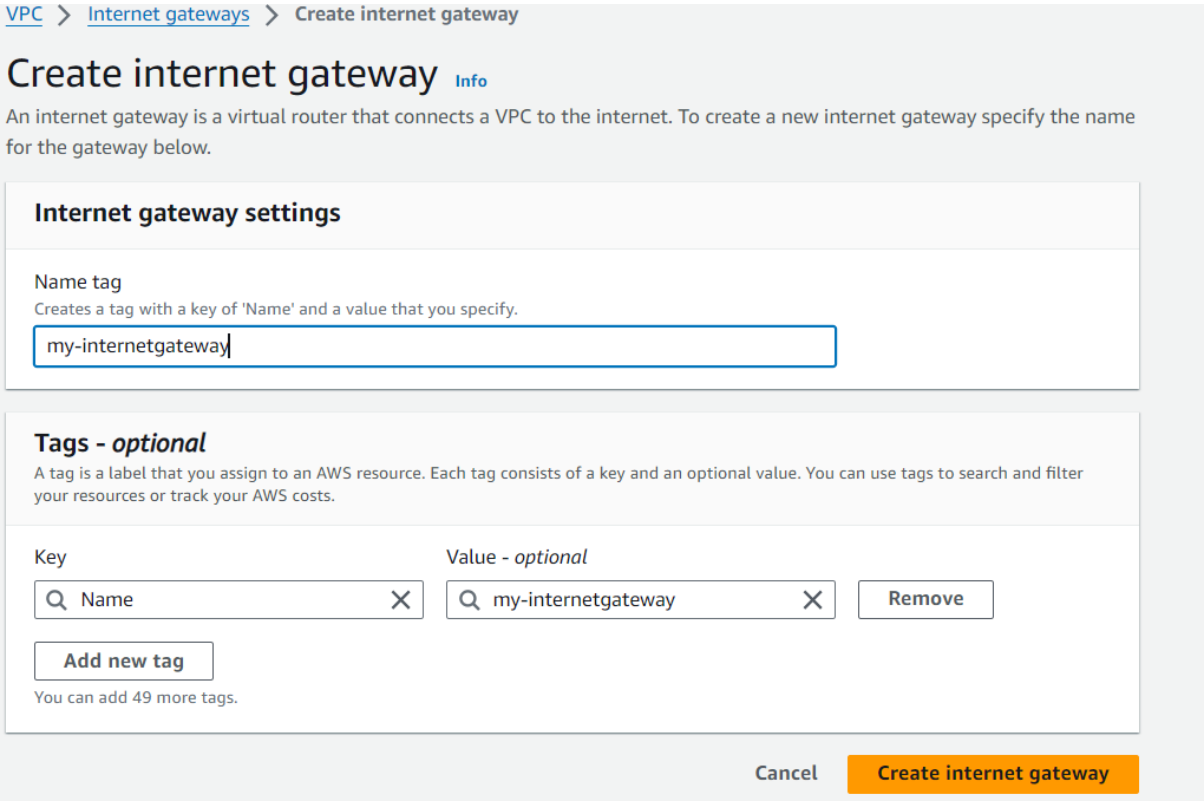

Fig. 9

Then click on actions and click on Attach to VPC (Fig. 10)

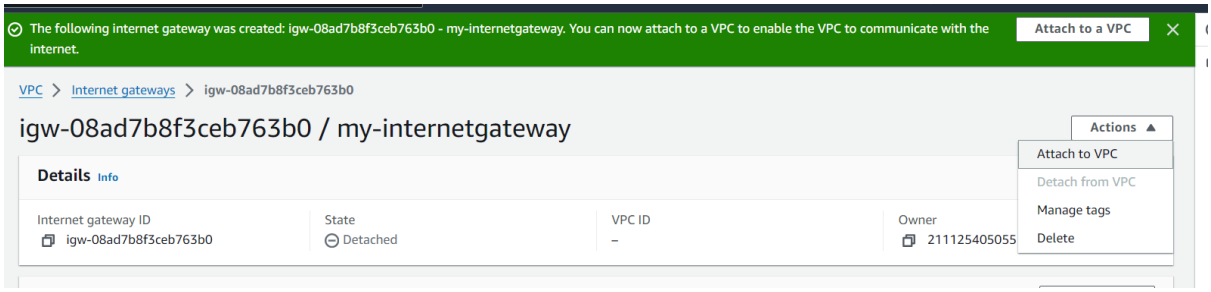

Fig. 10

Now we have to select our custom VPC in that available VPCS so we already created it our custom VPC. And finally click on Attach internet gateway(Fig. 11)

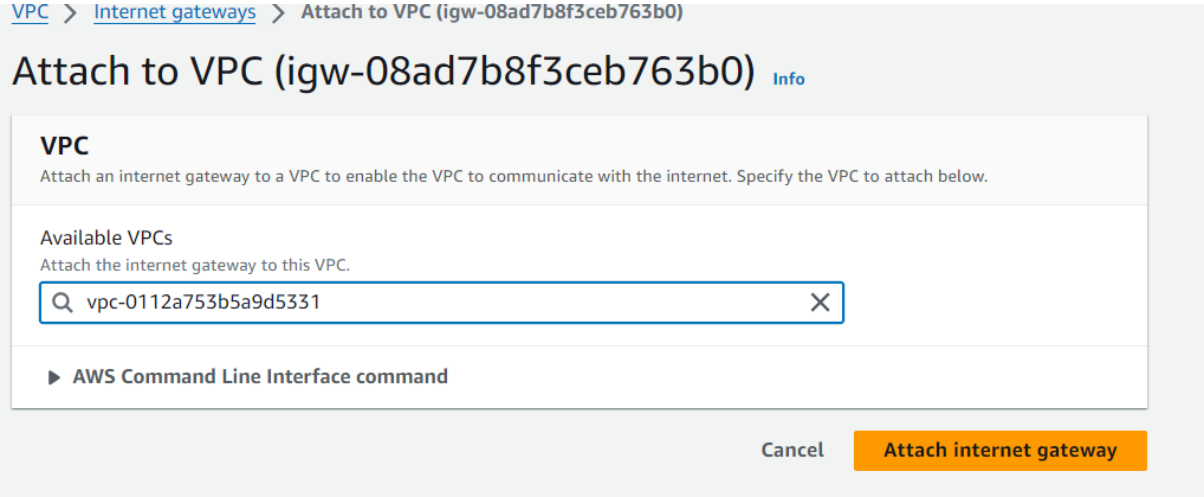

Fig. 11

Now ,we created internet gateway to our custom VPC successfully(Fig. 12)

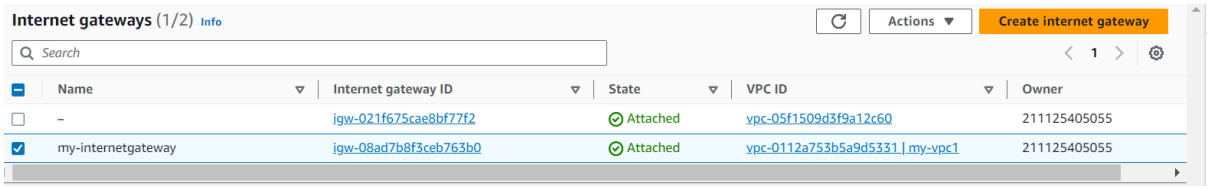

Fig. 12

Now we have to create 2 route tables(one is public and another one is private)

Click on route tables from menu bar and click on Create route tables (Fig. 13)

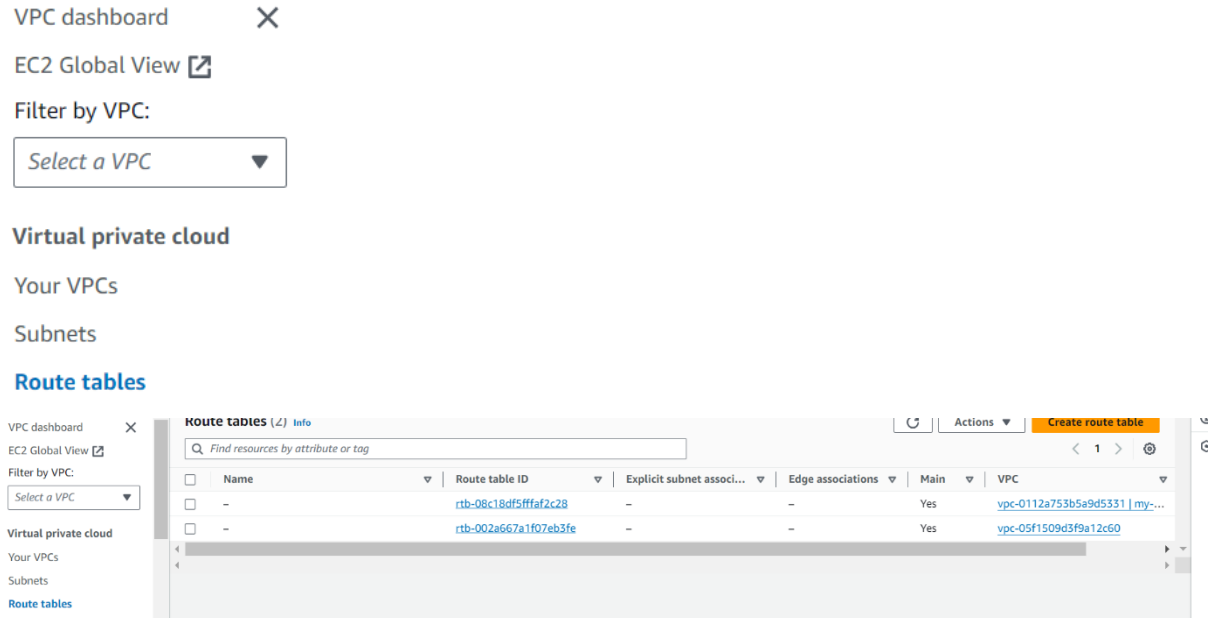

Fig. 13

Give name to route table and then select our custom VPC ,finally create route table (Fig. 14)

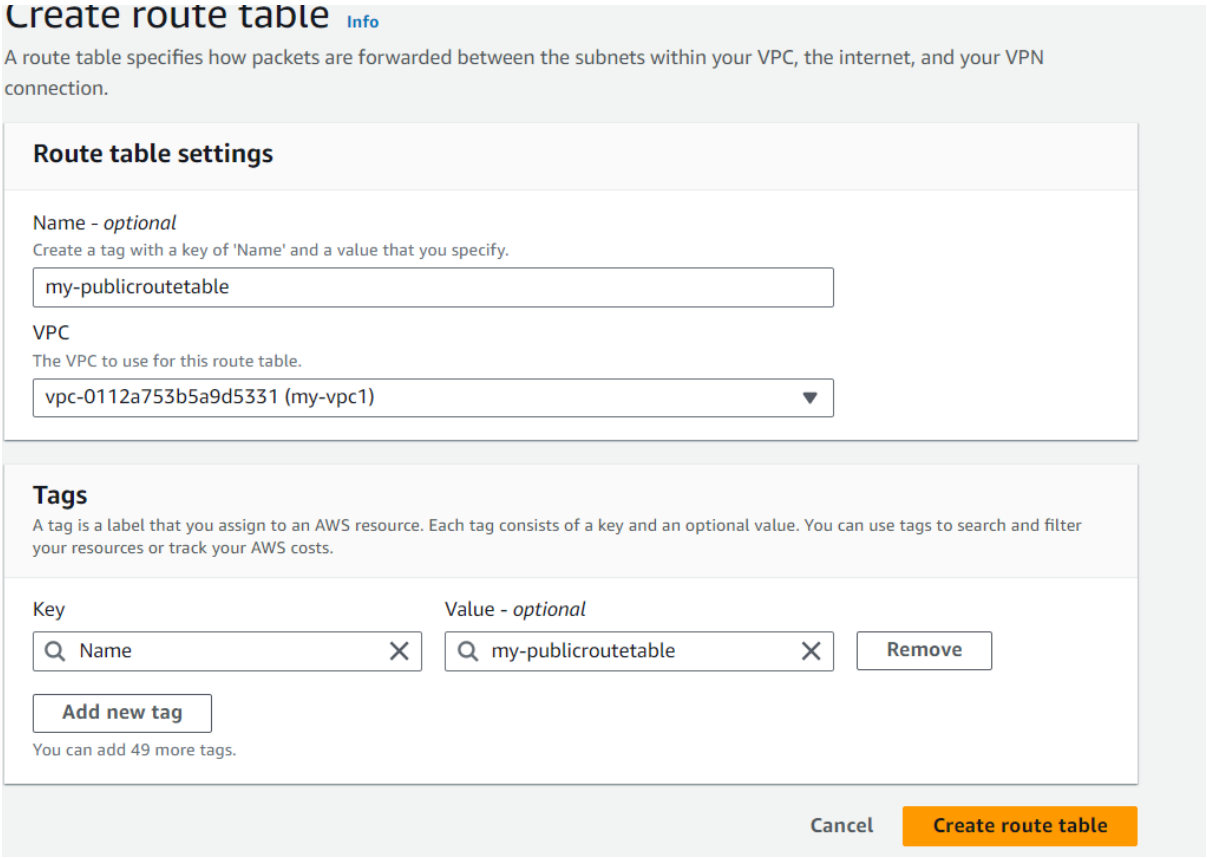

Fig. 14

Now click on actions, and then click on Edit routes (Fig. 15)

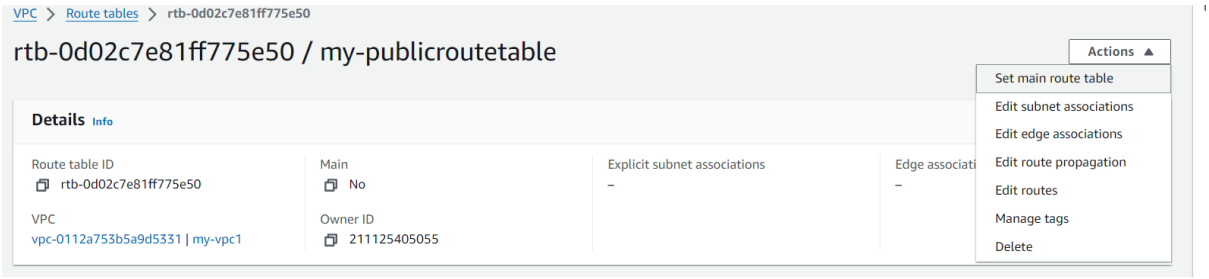

Fig. 15

Click on Add route (Fig. 16)

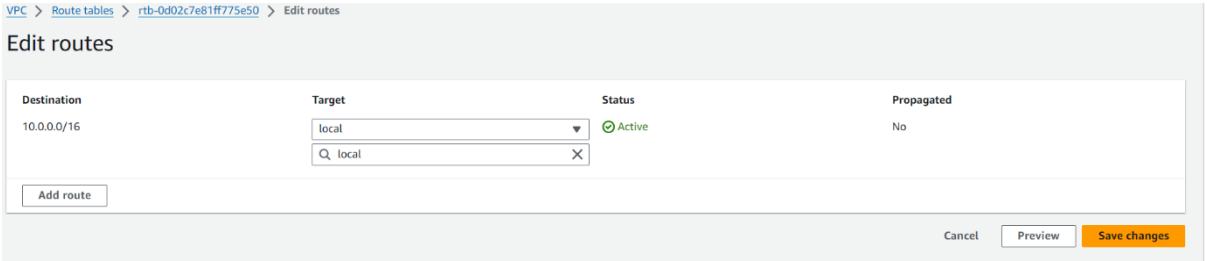

Fig. 16

Select internet gateway from drop down list,after then we have to select internet gateway id like igw-08ad7b8f3ceb763b0 and choose that internet gayeway ,finally click on save changes (Fig. 17)

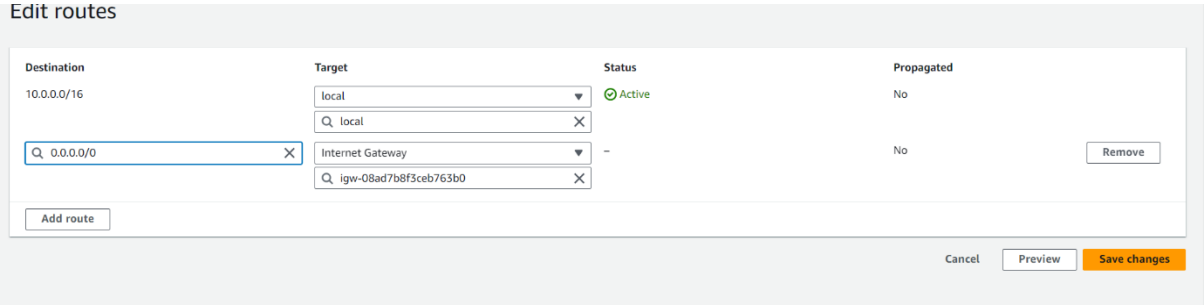

Fig. 17

After then click on subnet associations and Edit subnet associations (Fig. 18)

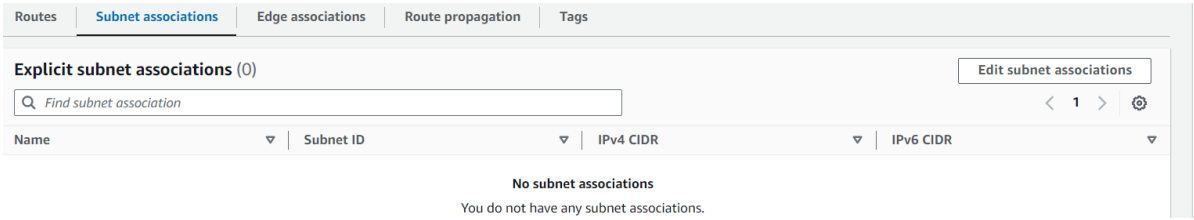

Fig. 18

Select public subnet check box and save associations (Fig. 19)

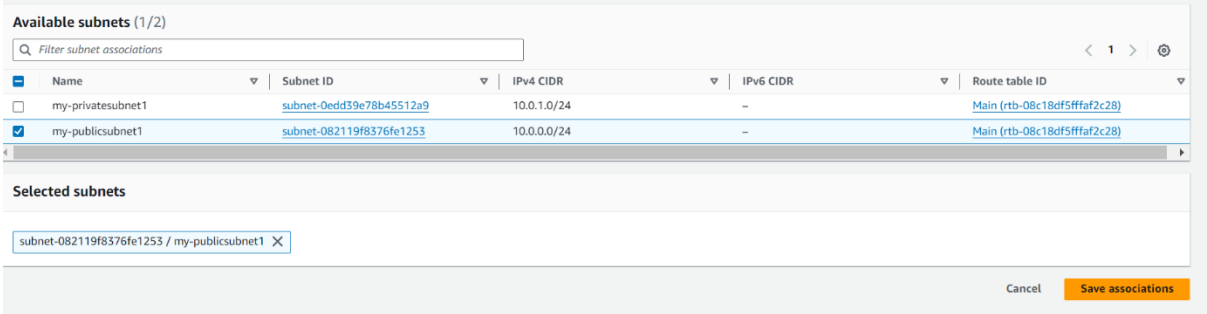

Fig. 19

Create one more route table.

Imp Note: For private route table we are not given internet gateway access ,because we want to make it as private .

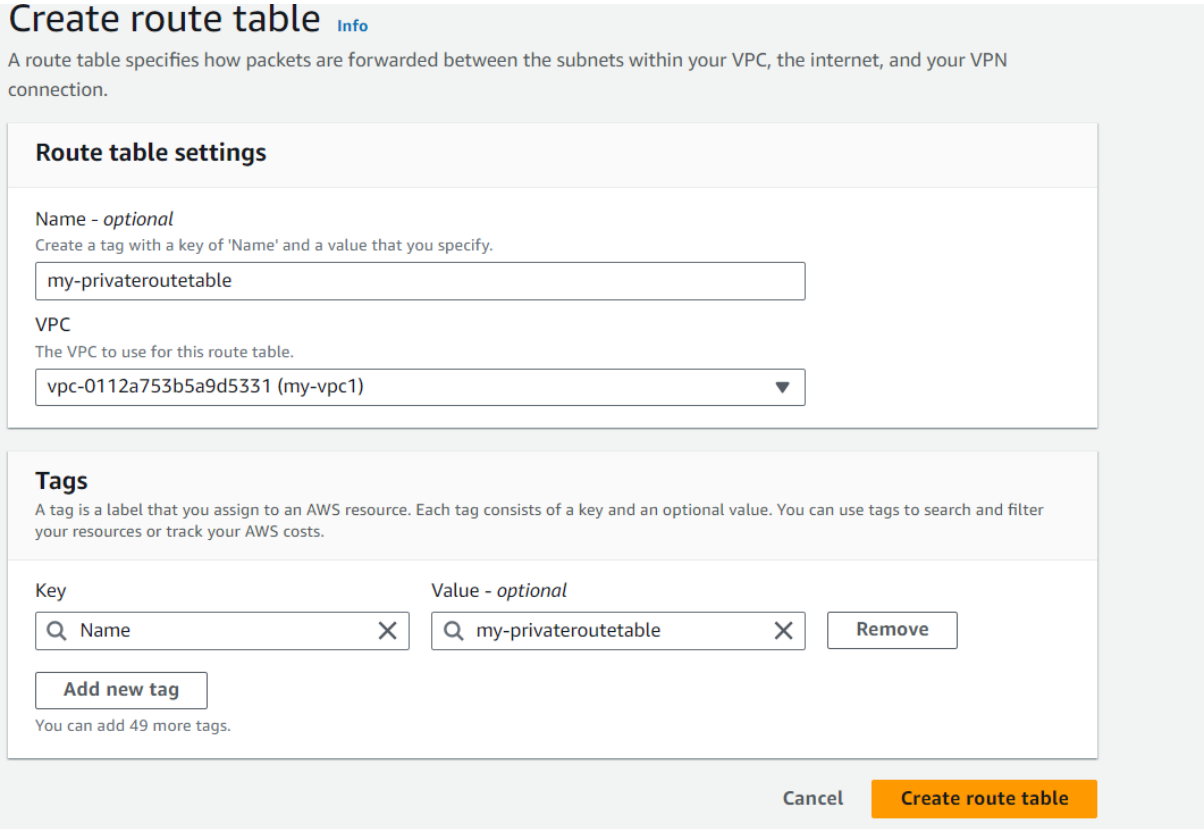

Fig. 20

Now we successfully created two route tables to our custom VPC (Fig. 21)

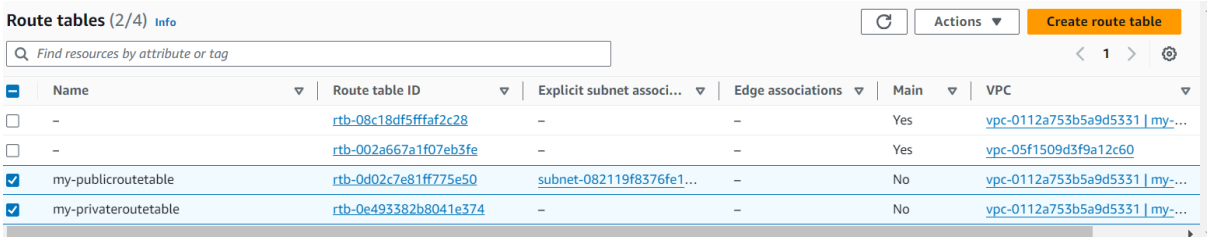

Fig. 21

Now create Three EC2 instances

Search for EC2 in search space of AWS home page and click on EC2(Fig. 22)

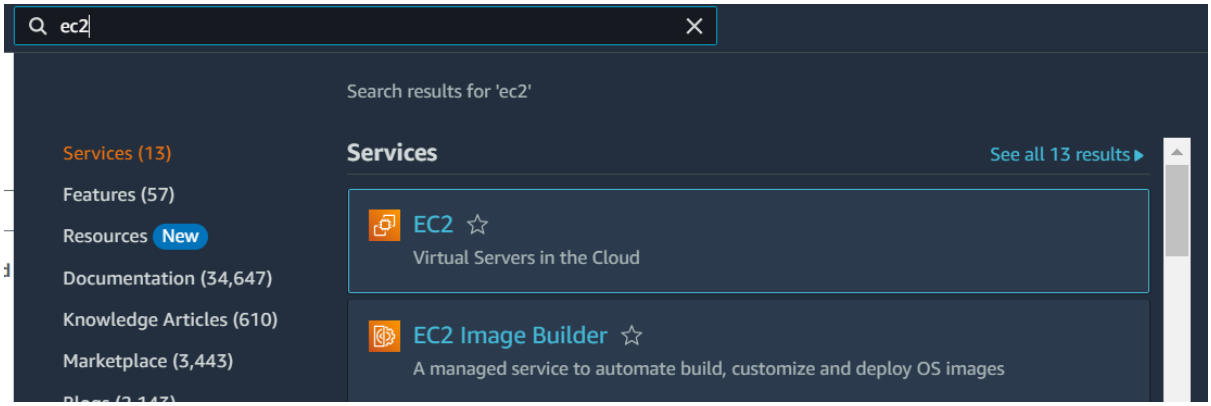

Fig. 22

Now create one EC2 instance to the Elastic Block store(EBS) and click on launch instance. (Fig. 23)

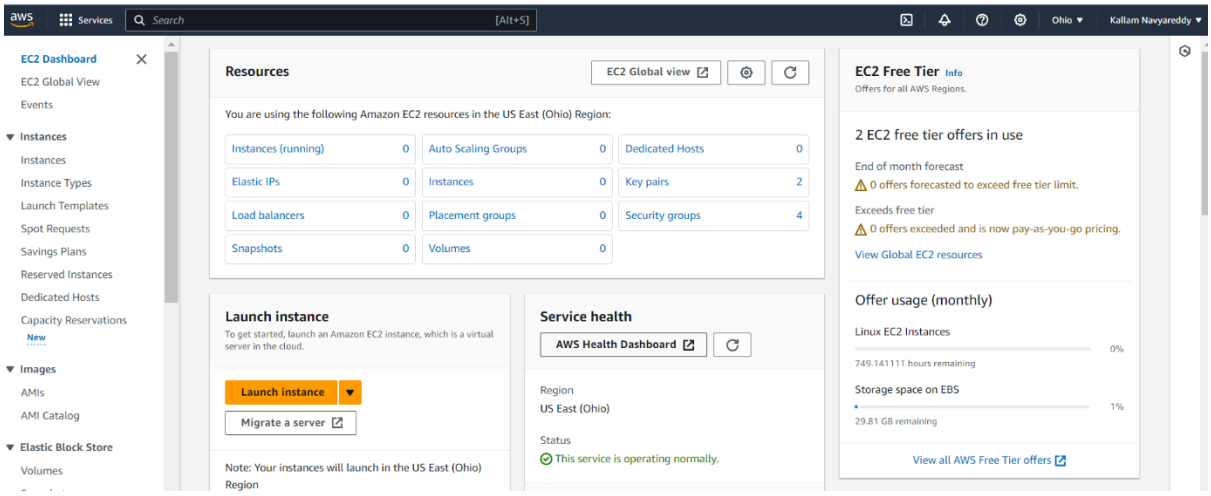

Fig. 23

For launching the instance of EC2 for ebs we have to fill the all details, and finally click on Launch instance(Fig. 24)

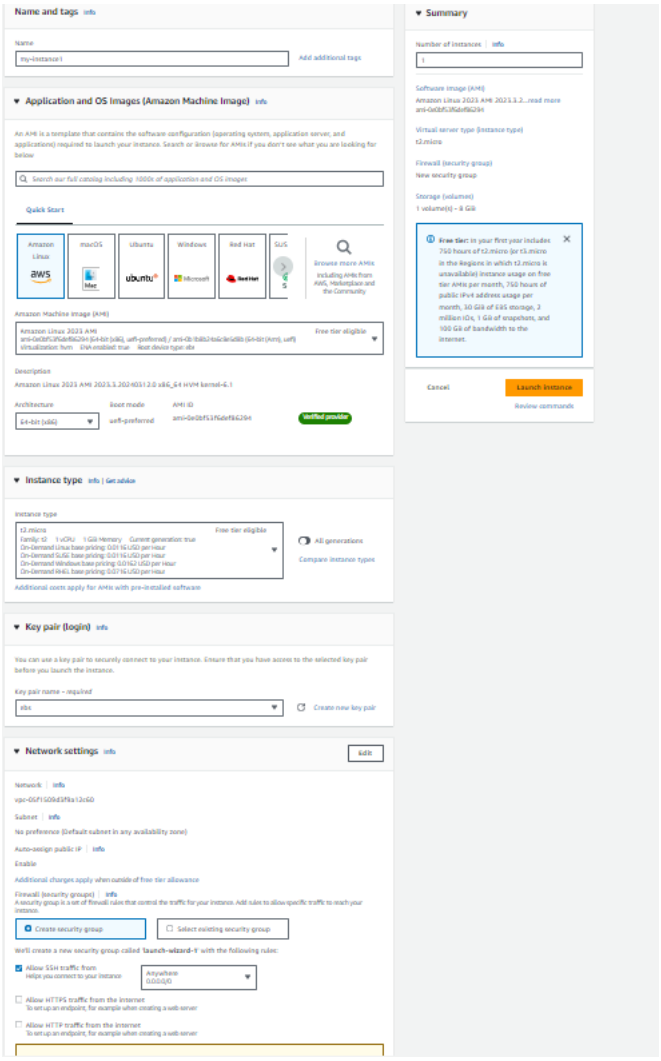

Fig. 24

We created EC2instance for EBS successfully.

Now click on volumes from EBS menu bar and click on Create volume (Fig. 25)

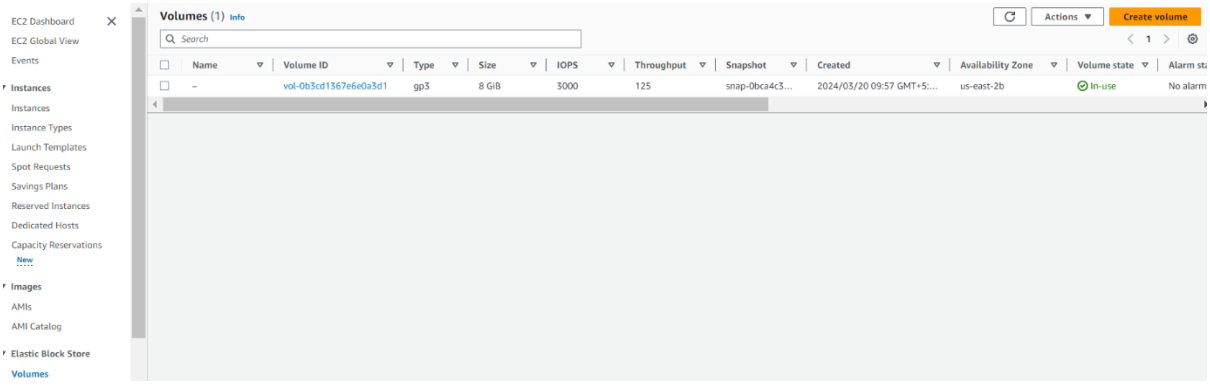

Fig. 25

For creating the volume we have to give the details of volume type, size, availability zone and finally click on Create volume(Fig. 26)

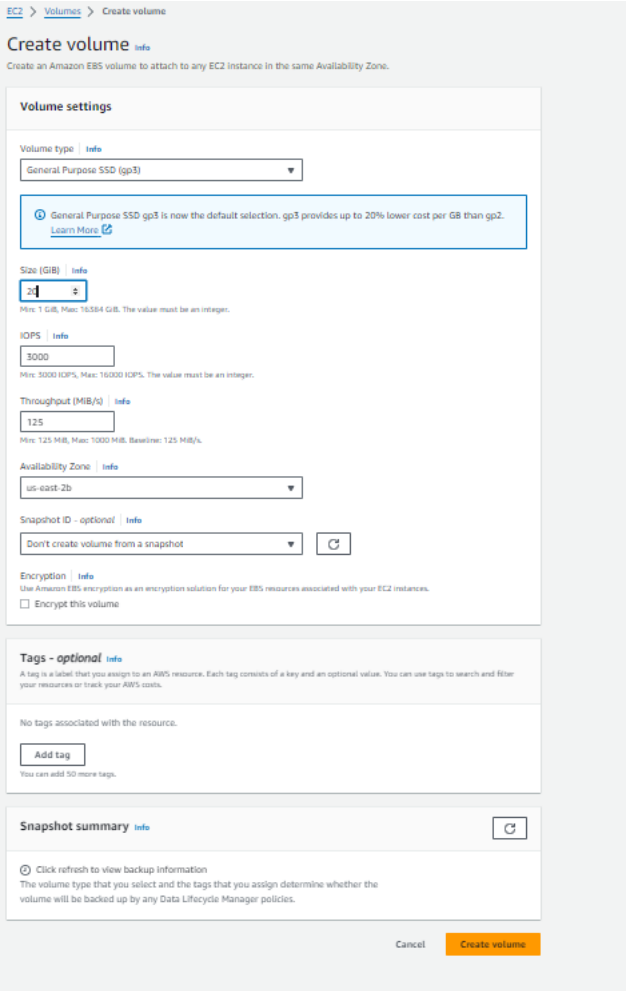

Fig. 26

After then click on Actions and click on Attach volume

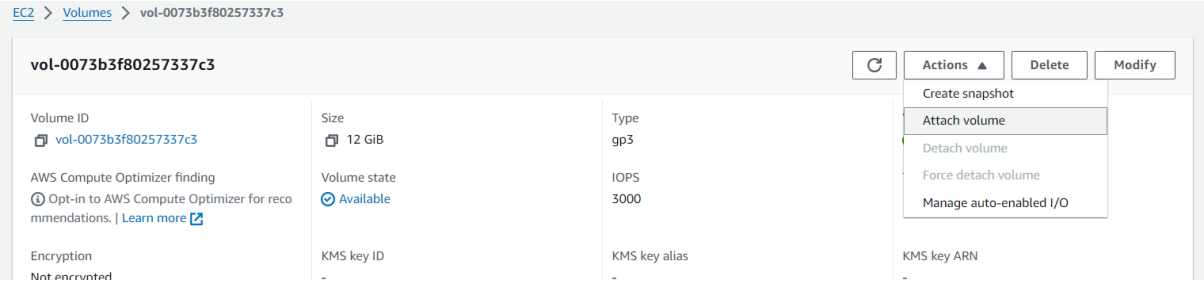

Fig. 27

For attaching the volume we have to select the instance and device name. (Fig. 28)

*Note: volume and instance are in same zone.

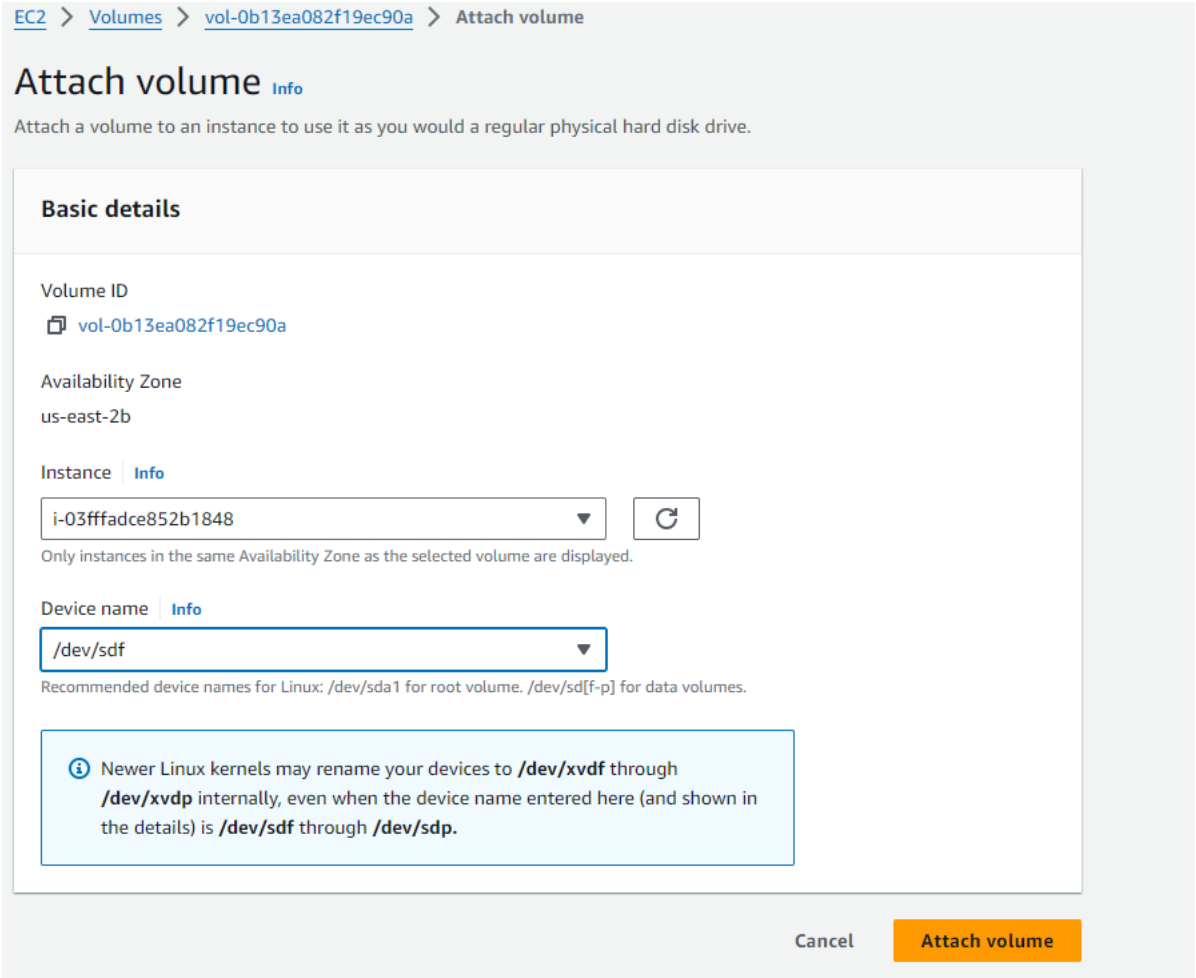
EC2 > Volumes > vol-0b13ea082f19ec90a > Attach volume
Attach volume Info
Attach a volume to an instance to use it as you would a regular physical hard disk drive.
Basic details
Volume ID
vol-0b13ea082f19ec90a
Availability Zone
us-east-2b
Instance Info
i-03fffadce852b1848
Only instances in the same Availability Zone as the selected volume are displayed.
Device name Info
/dev/sdf
Recommended device names for Linux: /dev/sda1 for root volume. /dev/sd[f-p] for data volumes.
Newer Linux kernels may rename your devices to /dev/xvdf through /dev/xvdp internally, even when the device name entered here (and shown in the details) is /dev/sdf through /dev/sdp.
Cancel
Attach volume

Fig. 28