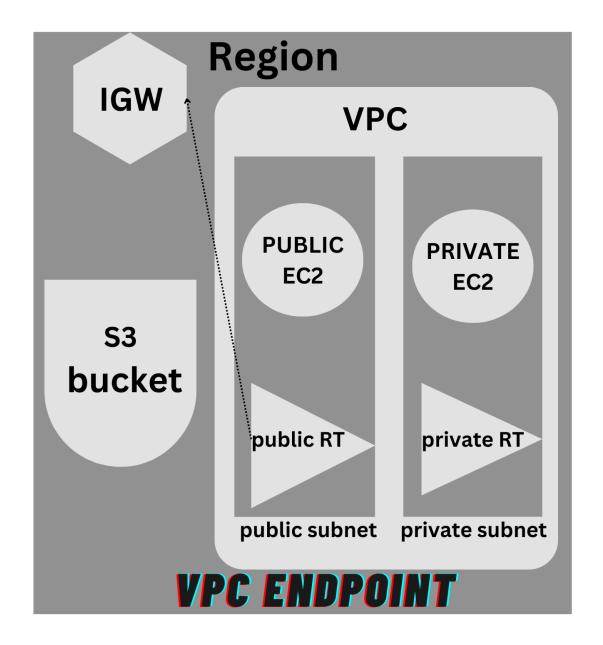


- <u>VPC endpoint</u> enables creation of a private connection between VPC to supported AWS services
- Traffic between VPC and AWS service does not leave the Amazon network.

There are two types of VPC endpoints:

- 1. Interface endpoint
- 2. Gateway endpoint



Step1: Login into your AWS Console

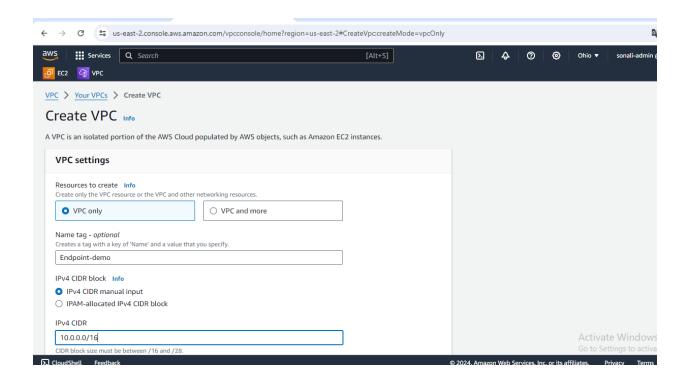
Step2: Create Infrastructure

- Create VPC
- Create 2 Subnet in that one is public and other is Private.
- Make One Public by Enabling in Setting
- Create one IGW for Public Subnet

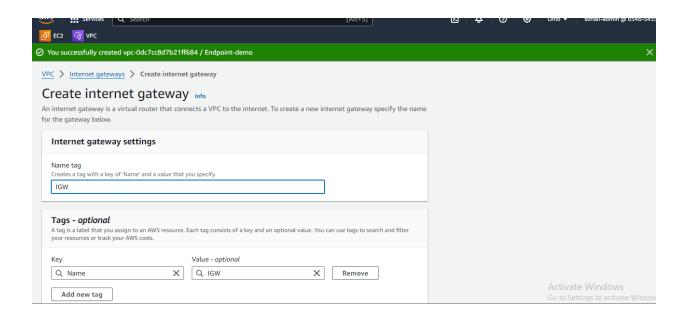
- Attach that subnet to VPC
- Create public Route Table to Public Subnet and add Route of Internet Gateway
- Create private Route Table for private subnet. Don't add any route in it.
 Because when we create Endpoint at that we are giving this private RT.
- In Private RT Route get added automatically after creating Endpoint
- Create S3 bucket
- Create Role for S3 bucket
- Create Endpoint to access the resources like s3 bucket.

Step 3:

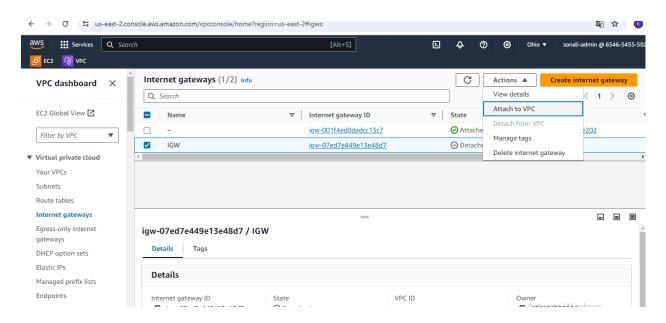
- In the AWS Management Console search bar, enter VPC, and click the VPC result under Services:
- To start creating VPC, in the left down side, Click on Your VPC to Create VPC:

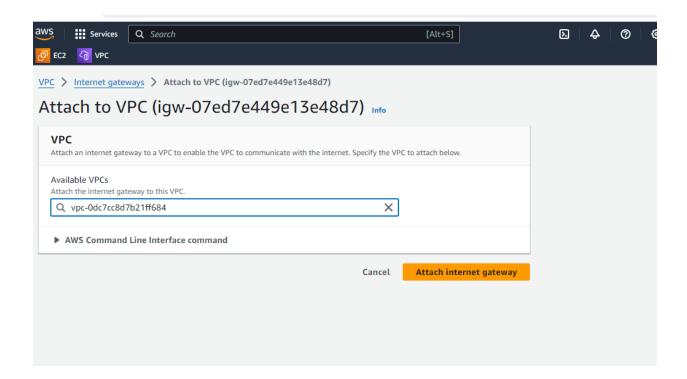


· Create one IGW for Public Subnet

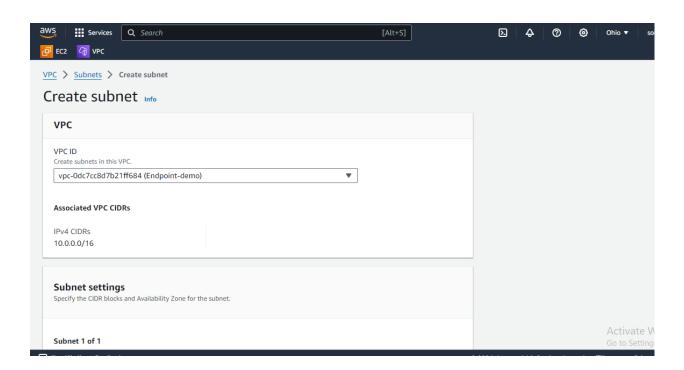


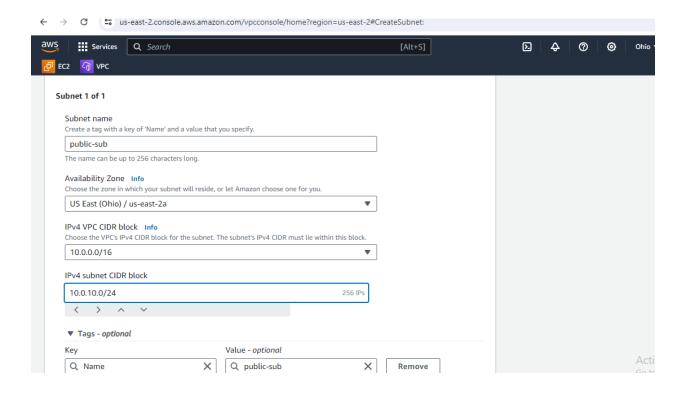
· Attach Internet Gateway to VPC



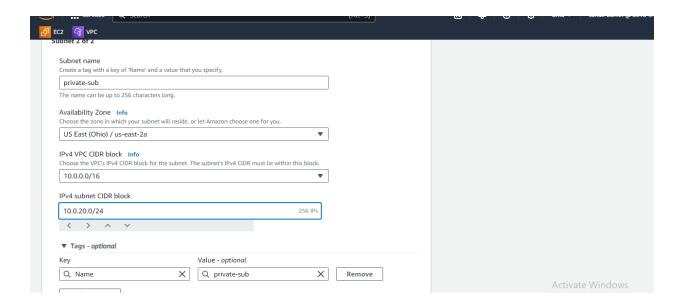


Create Public Subnet

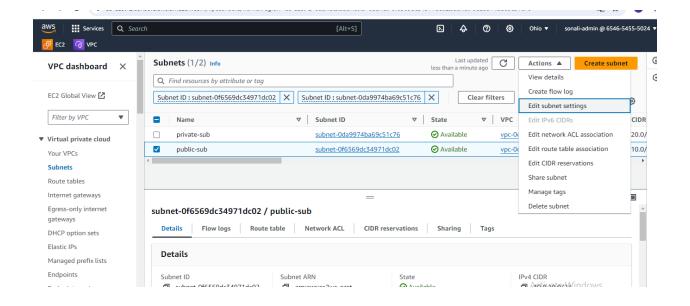


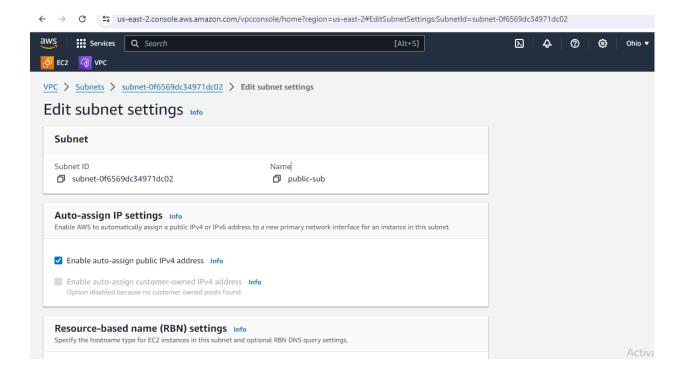


• Create private subnet

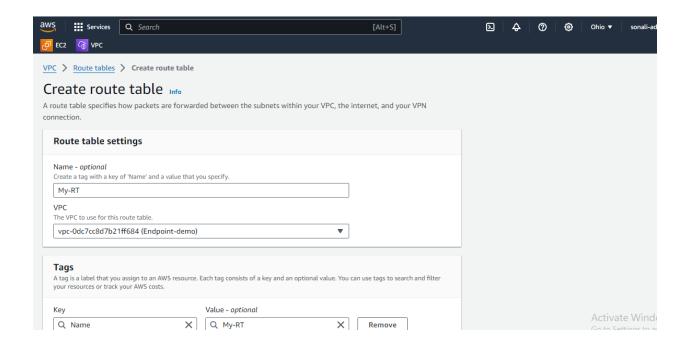


· Make your subnet public by enabling the setting

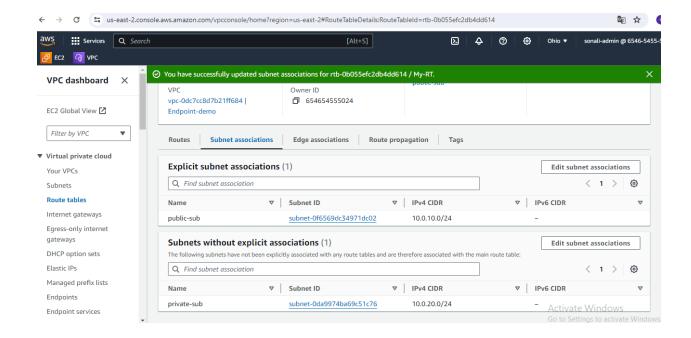




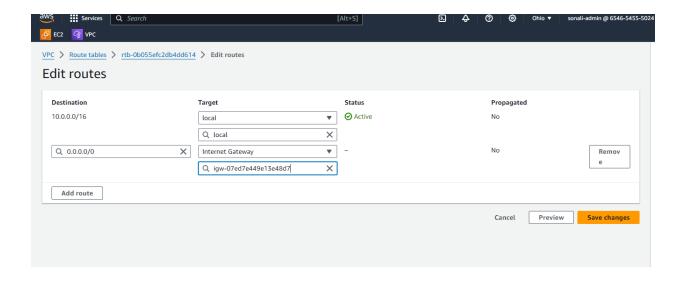
• Create one Route for public subnet



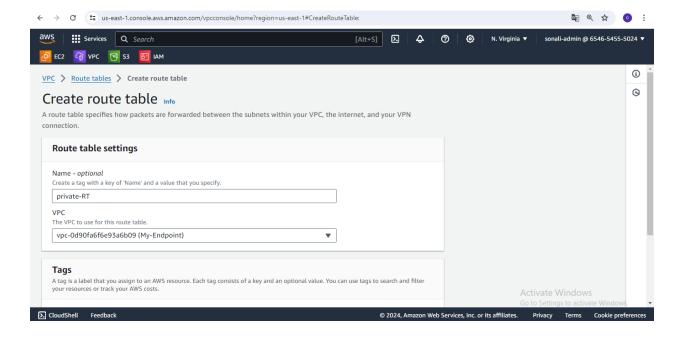
· Do subnet Association with public subnet.



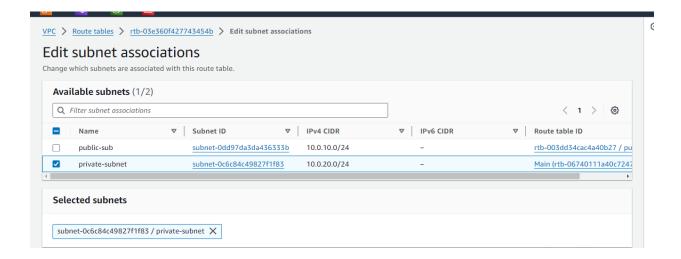
• Add Route of internet gateway to the Route Table



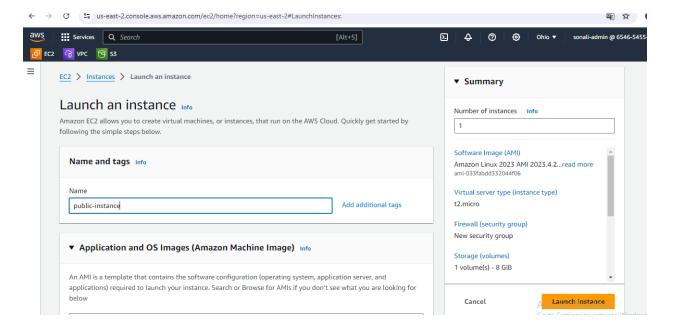
• Create private RT for private subnet.



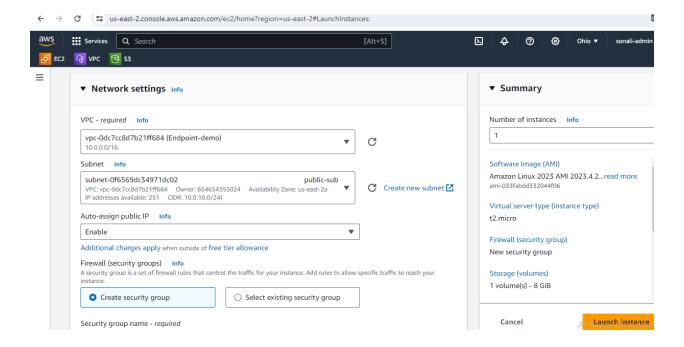
• Do subnet Association with public subnet.



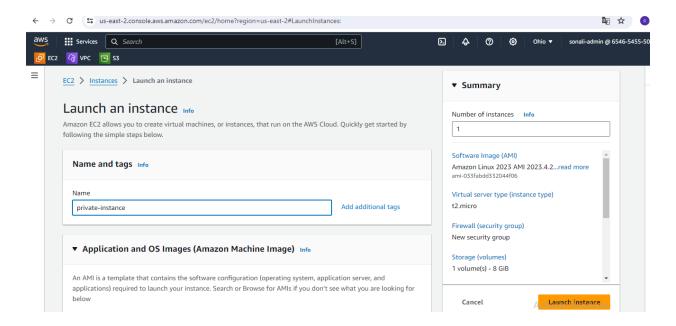
· Launch the public Instance

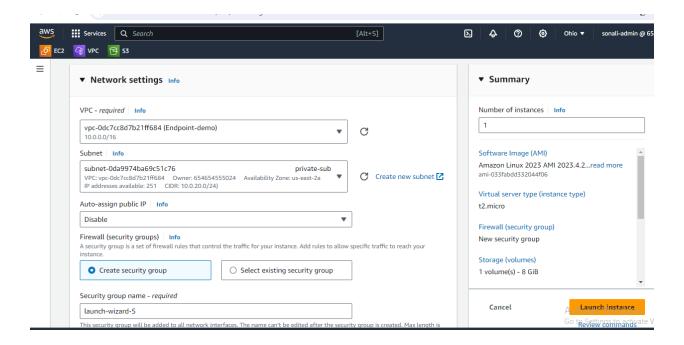


• Select VPC which we have created and public subnet for public ec2

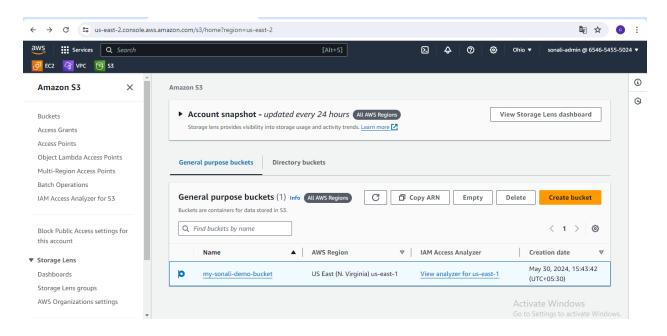


· Launch private instance and select private subnet

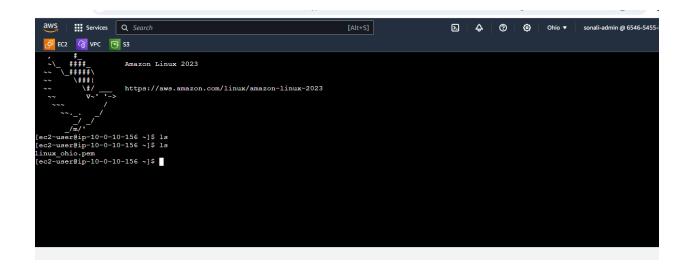


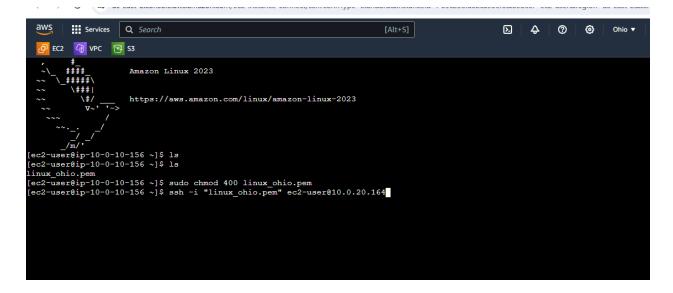


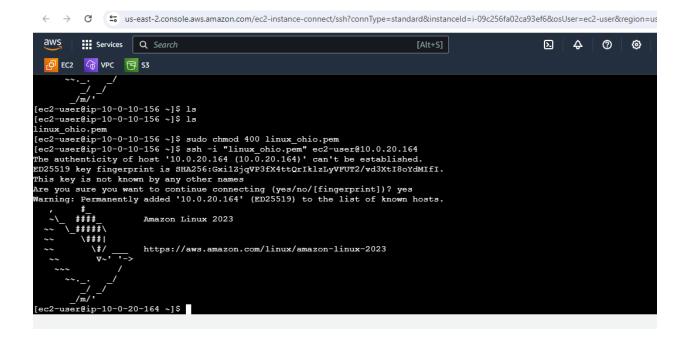
Create s3 Bucket



- · Do scp and copy your key in virtual machine
- Do ssh to private ec2 instance



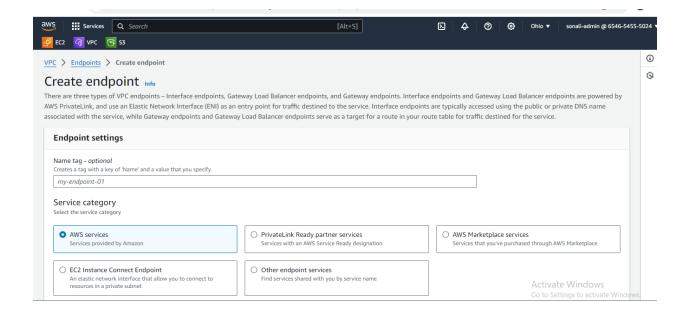


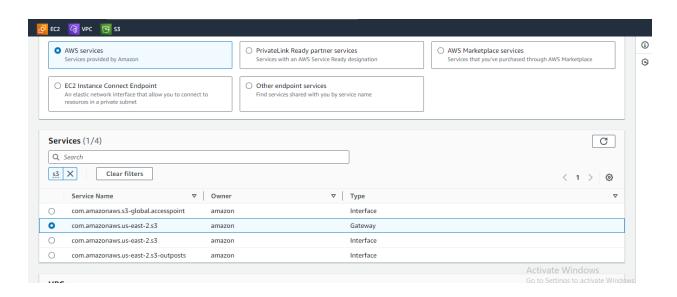


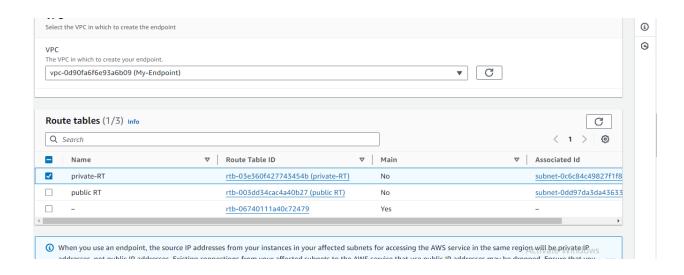
• View the list of bucket using below command .you will not get any output here . because of that you need to create VPC endpoint.

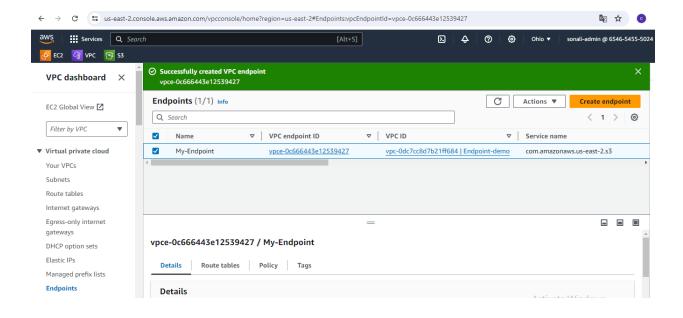


• Create VPC Endpoint

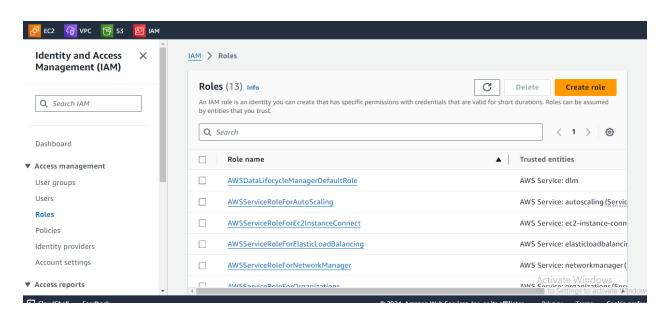


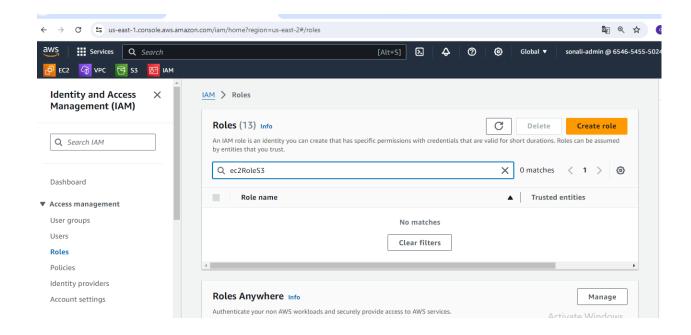


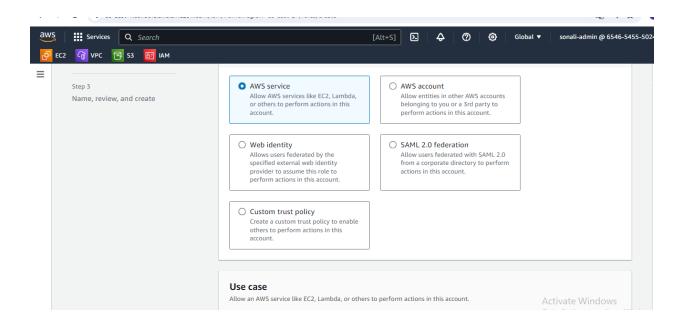


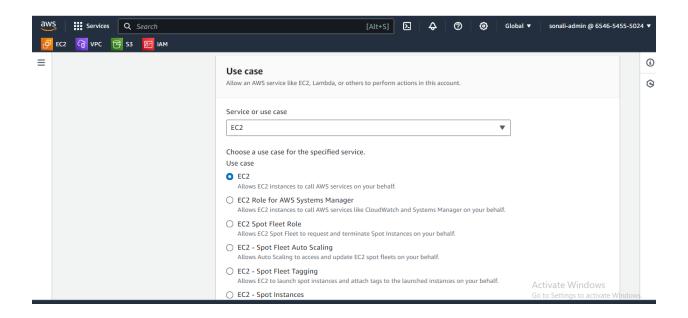


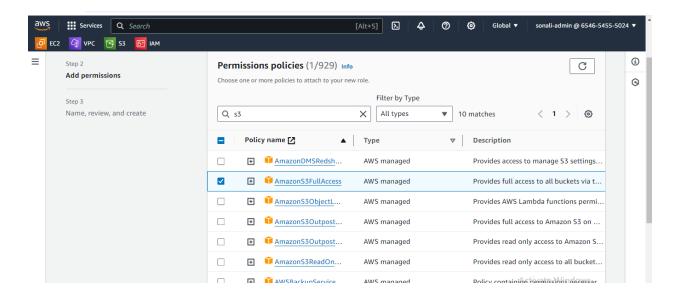
Create Role for password

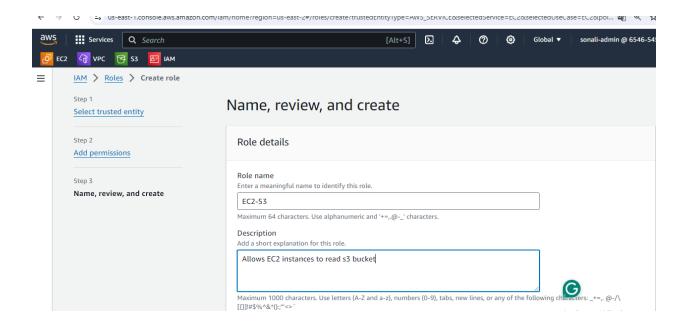


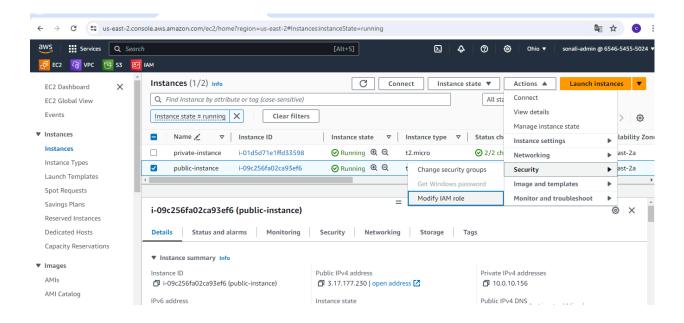


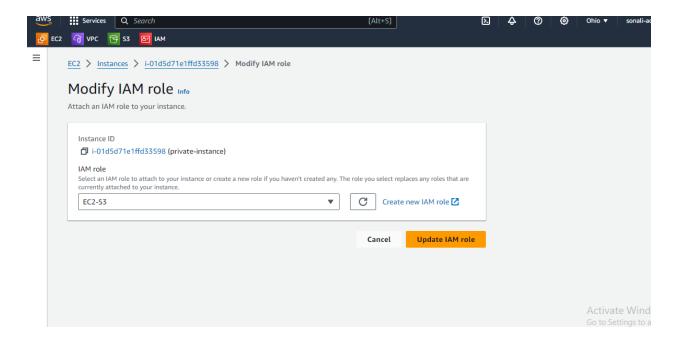












Final output

```
[ec2-user@ip-10-0-20-82 ~]$ aws s3 ls
2024-06-22 10:22:18 my-demo-sonali
2024-05-30 10:13:42 my-sonali-demo-bucket
[ec2-user@ip-10-0-20-82 ~]$
```