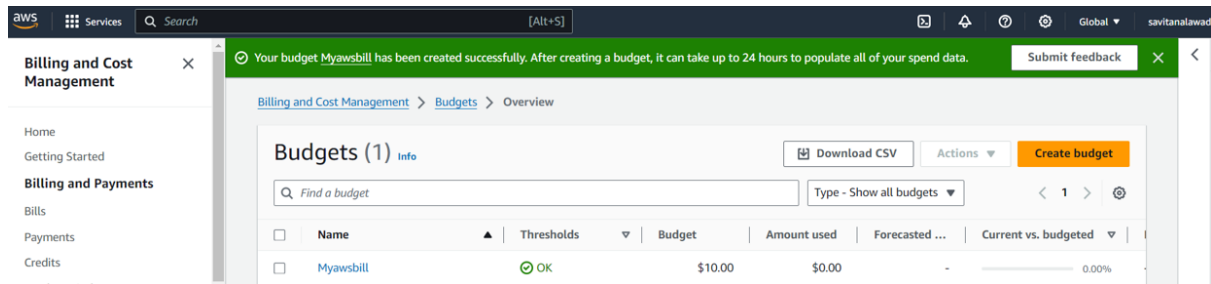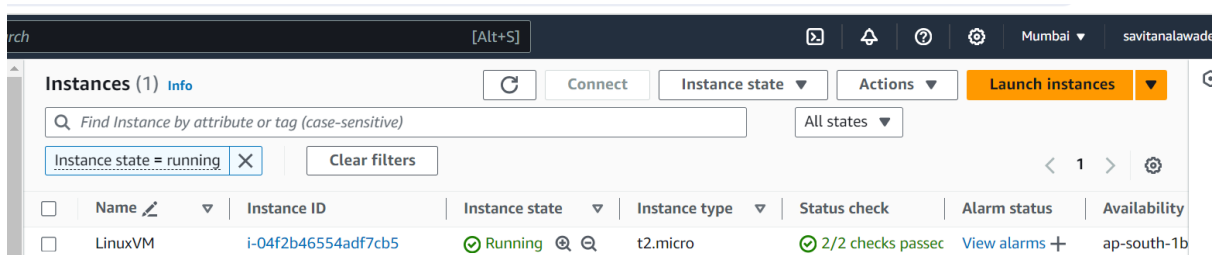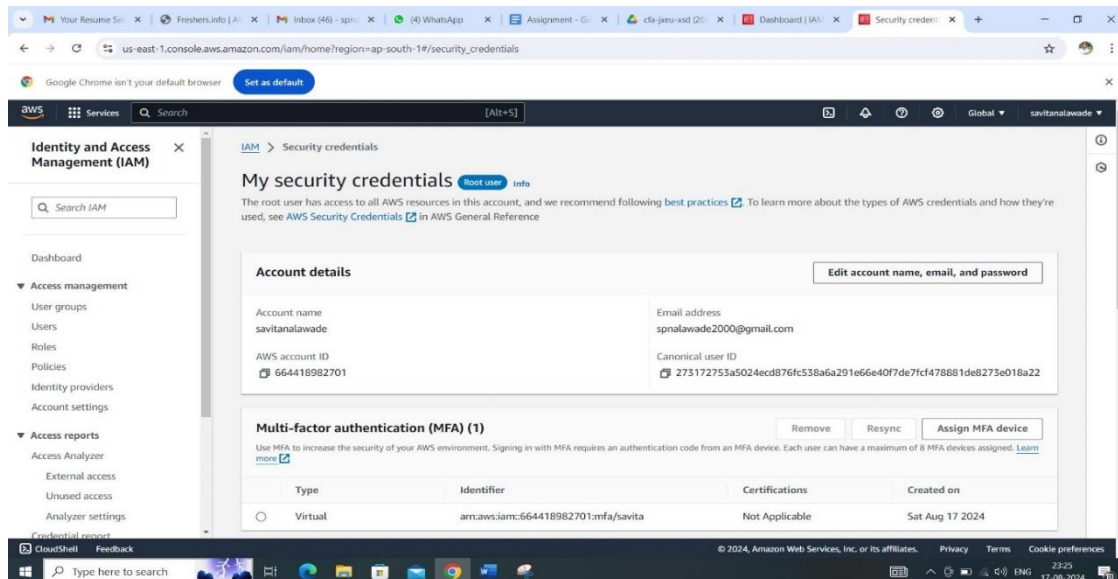1. Setup Billing alarm.

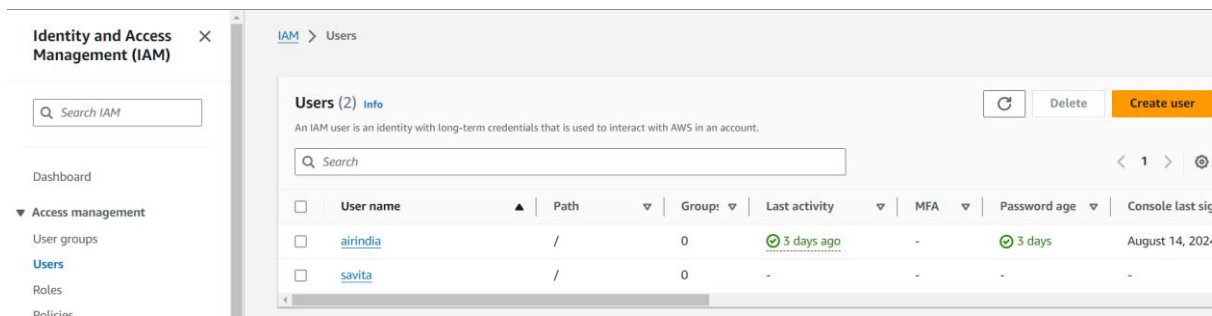2.Create linux ec2 Instance in Mumbai region.
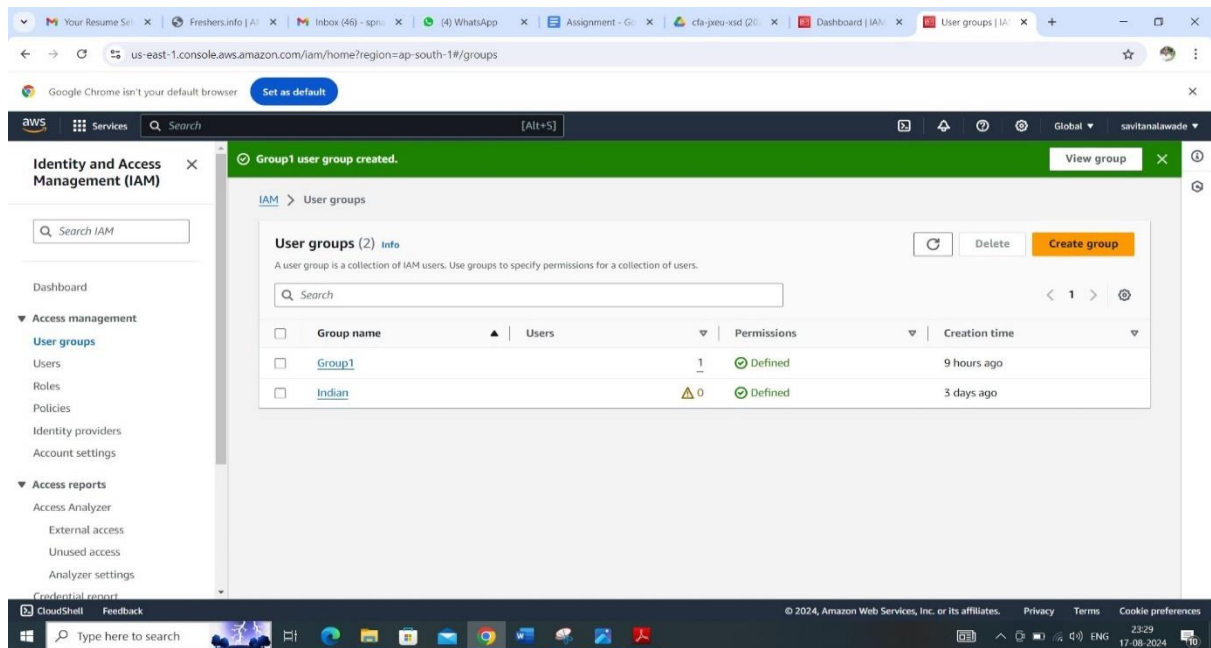

3.Setup MFA for Root User

4.Create user, group and role using GUI

User:
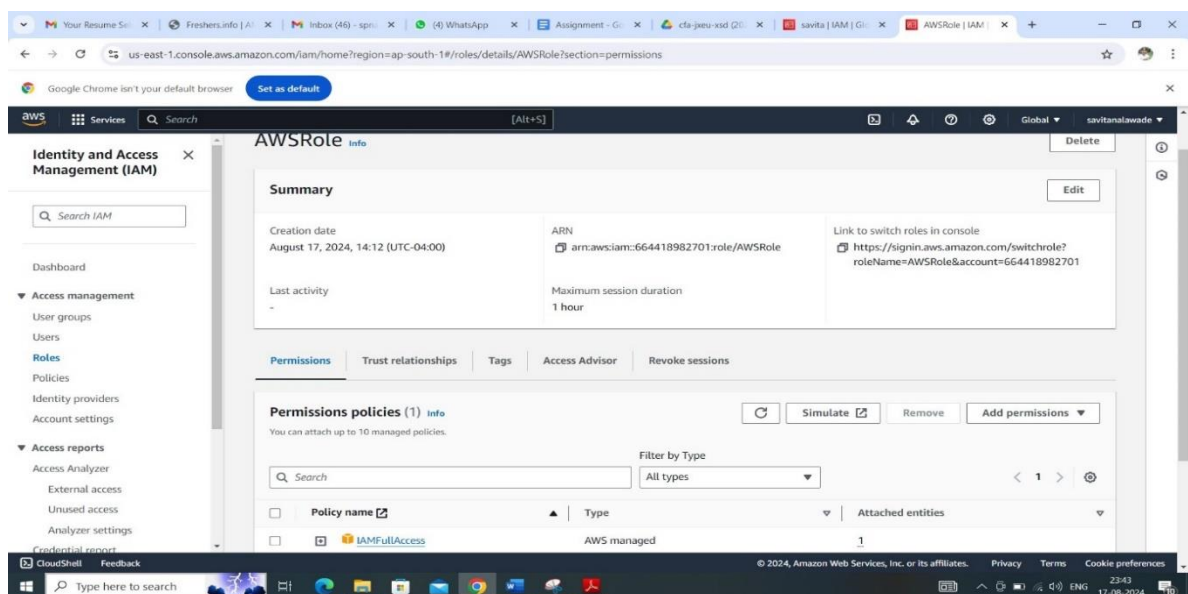
Group:

Role:

5.Create user, group and role using CLI

User:

```
[ec2-user@ip-172-31-1-120 ~]$ aws iam create-user --user-name savita001
{
    "User": {
        "UserName": "savita001",
        "Path": "/",
        "CreateDate": "2024-08-18T07:47:07Z",
        "UserId": "AIDAZVMTVDMWXIJB3ZKXH",
        "Arn": "arn:aws:iam::664418982701:user/savita001"
    }
}
```

Group:

```
[ec2-user@ip-172-31-1-120 ~]$ aws iam create-group --group-name awscloud
{
    "Group": {
        "Path": "/",
        "CreateDate": "2024-08-18T07:47:57Z",
        "GroupId": "AGPAZVMTVDMW66KG6SL54",
        "Arn": "arn:aws:iam::664418982701:group/awscloud",
        "GroupName": "awscloud"
    }
}
[ec2-user@ip-172-31-1-120 ~]$
```

6.Attach Role and Access to Instance

CLI:

```
ec2-user@ip-172-31-1-120:~                                                    —   □   ×
secret_key                    <not set>              None    None
    region                    <not set>              None    None
[root@ip-172-31-1-120 ~]#
login as: ec2-user
Authenticating with public key "AWSdevops"
Last login: Sun Aug 18 07:29:03 2024 from 103.221.74.120

    ,     #_
   ~\_  ####_          Amazon Linux 2
  ~~  \_#####\
  ~~     \###|         AL2 End of Life is 2025-06-30.
  ~~       \#/ ___
   ~~       V~' '->
    ~~~         /      A newer version of Amazon Linux is available!
     ~~._.   _/
        _/ _/         Amazon Linux 2023, GA and supported until 2028-03-15.
      _/m/'              https://aws.amazon.com/linux/amazon-linux-2023/

[ec2-user@ip-172-31-1-120 ~]$ aws configure list
    Name                        Value             Type       Location
    ----                        -----             ----       --------
    profile                    <not set>          None       None
access_key         ****************HX63          iam-role
secret_key         ****************p8RF          iam-role
    region                    <not set>          None       None
```
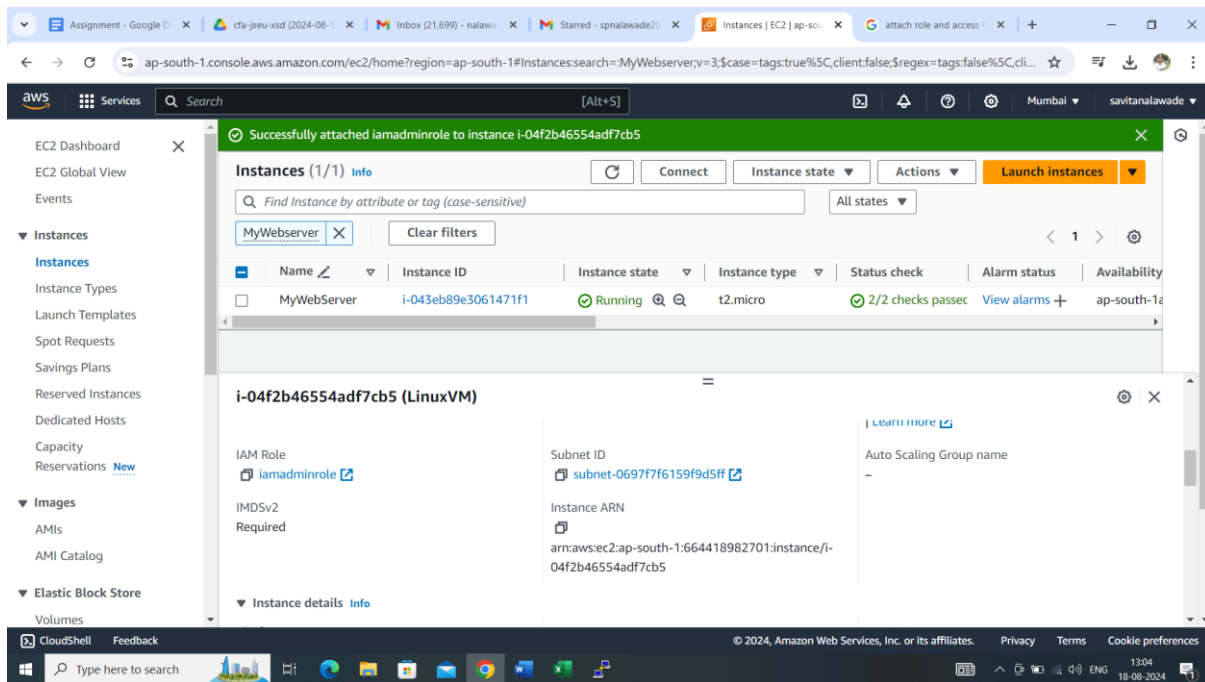
GUI:

7.Attach Role as well as Access key and Secret Access key to Instance .

Attached Role to instance:

```
[ec2-user@ip-172-31-1-120 ~]$ aws configure list
      Name                    Value             Type    Location
      ----                    -----             ----    --------
   profile                 <not set>            None    None
access_key          ****************HX63    iam-role
secret_key          ****************p8RF    iam-role
    region                 <not set>            None    None
```

Attached Access key and Secret Access key to Instance .

```
    region                 <not set>              None    None
[ec2-user@ip-172-31-1-120 ~]$ aws configure
AWS Access Key ID [None]: AKIAZVMTVDMW2K7YBAMV
AWS Secret Access Key [None]: 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
Default region name [None]: ap-south-1
Default output format [None]: json
[ec2-user@ip-172-31-1-120 ~]$ aws configure list
      Name                    Value             Type         Location
      ----                    -----             ----         --------
   profile                 <not set>            None         None
access_key        ****************BAMV  shared-credentials-file
secret_key        ****************Ib49  shared-credentials-file
    region                ap-south-1       config-file    ~/.aws/config
[ec2-user@ip-172-31-1-120 ~]$
```