# **AMITY SCHOOL OF ENGINERRING & TECHNOLOGY**



**LAB-3(b)** 

Student Name: Vikas Rajbhar

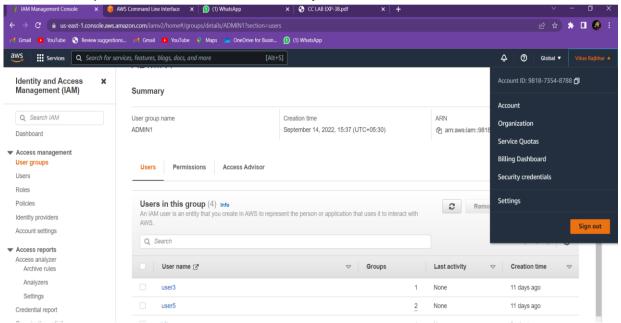
Class: B.Tech(CSE) Semester: 7

**Enrollment Number: A70405219037** 

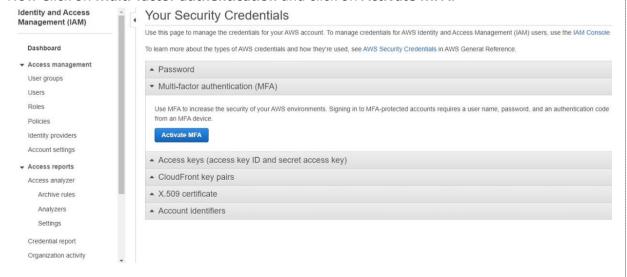
Faculty In-charge {Department of CSE} ASET, AUM

### AIM:

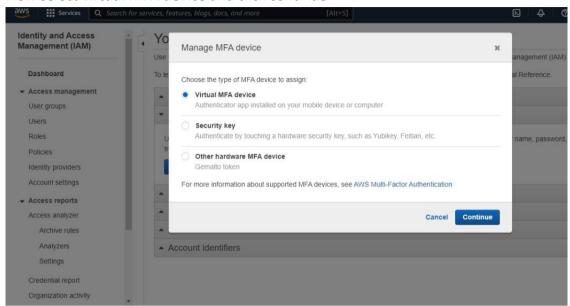
- 1. Set the MFA for Root AWS user.
- 2. Set the password policy.
- 3. Configure AWS CLI. (work with different user creation and deletion and group creation and deletion).
- 4. Create IAM Role.
- 5. AWS command.
  - 1. Set the mfa for root aws user
  - a) First, click on your username and select Security credentials.



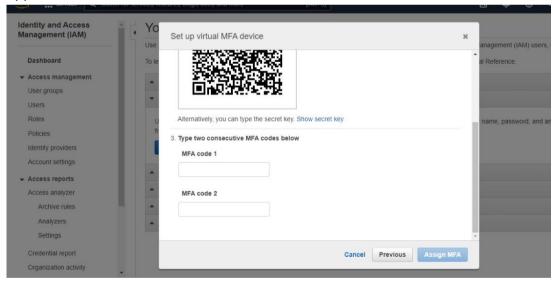
b) Now Click on Multi-factor authentication and click on Activate MFA.



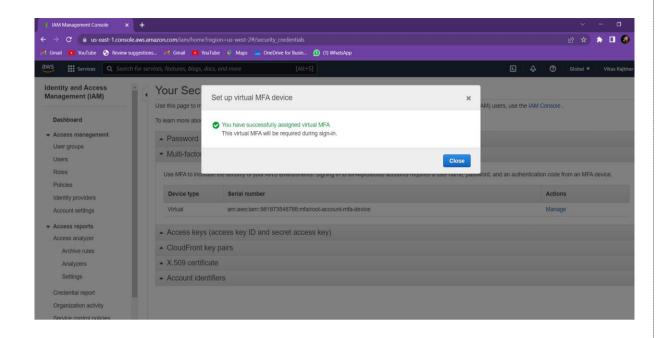
c) Now select virtual MFA device and click continue



d) Now, scan the QR code and then type the two consecutive MFA codes from the 2FA app.

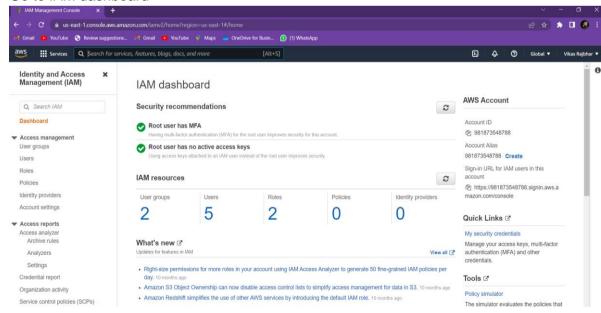


e) You have successfully assigned virtual MFA

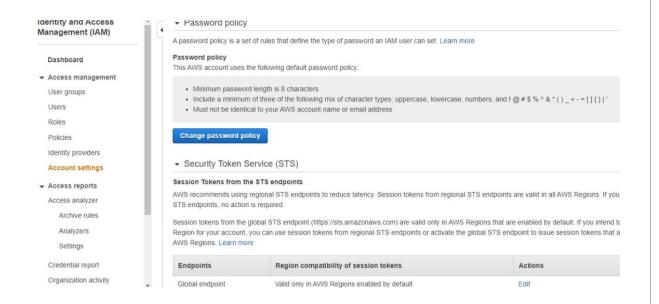


2. Set the password policy

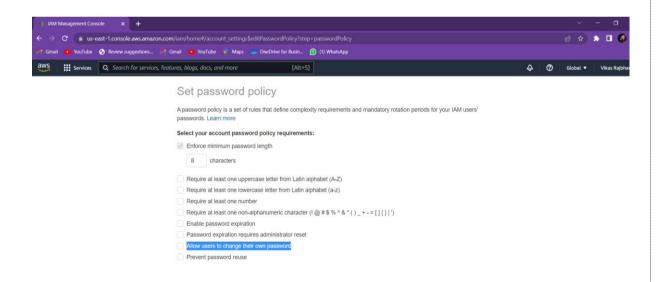
a) Go to IAM dashboard



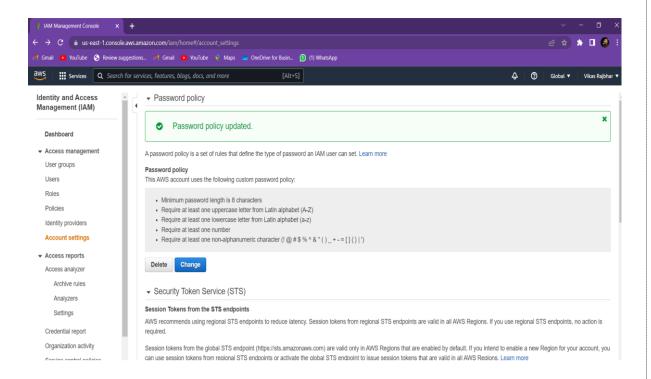
b) Go to Account setting and click on Change password policy



c) Set the password policy and click on Save changes

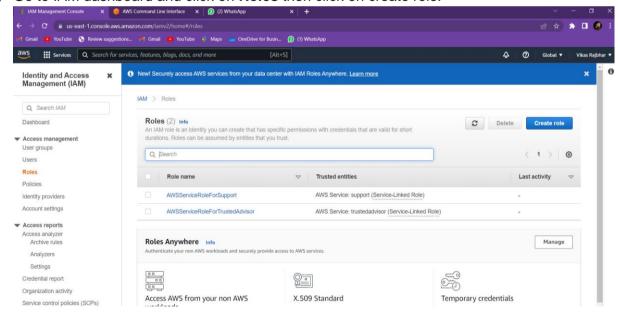


d) The password policy has been updated successfully.

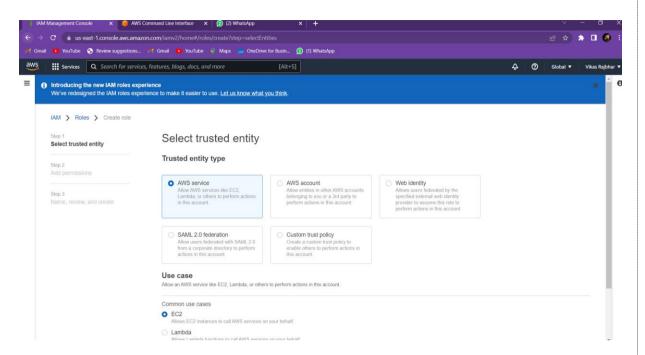


#### 3. Create iam role

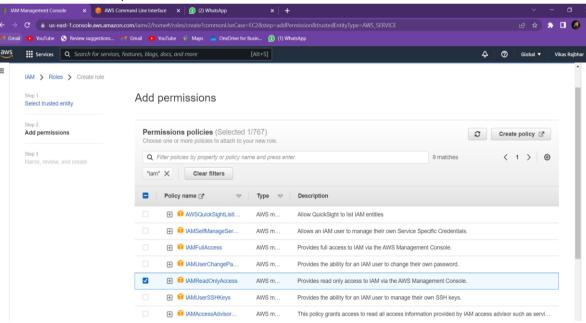
a) Go to IAM dashboard and click on Roles then click on create role.



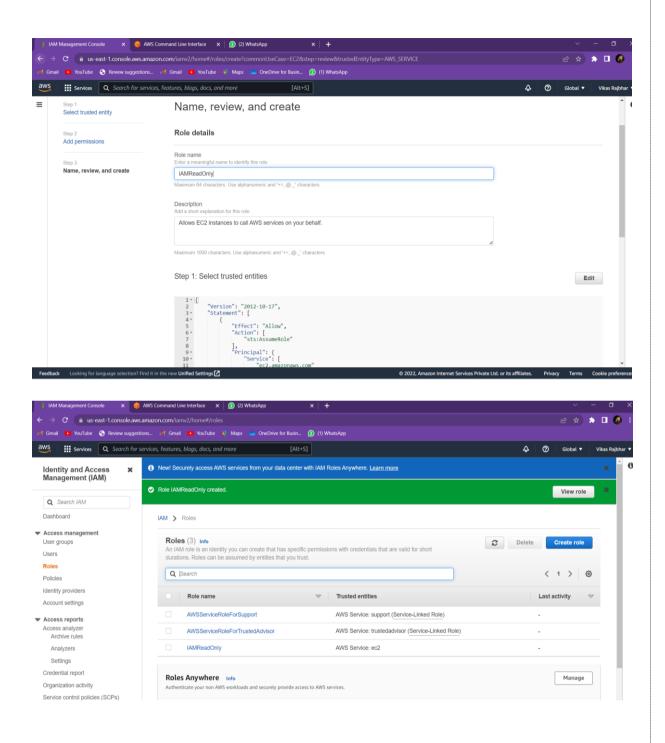
Select trusted entity type as AWS service and for the Use case select EC2.
 Click Next.



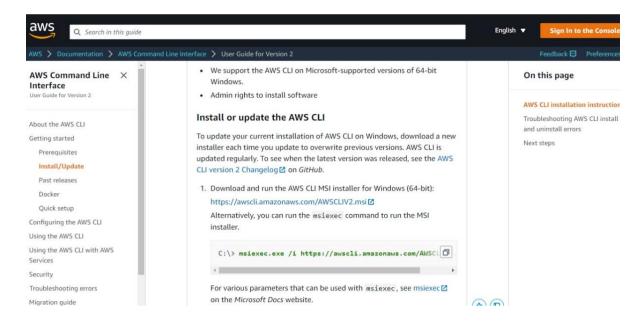
c) Select the desired permissions and then click Next.



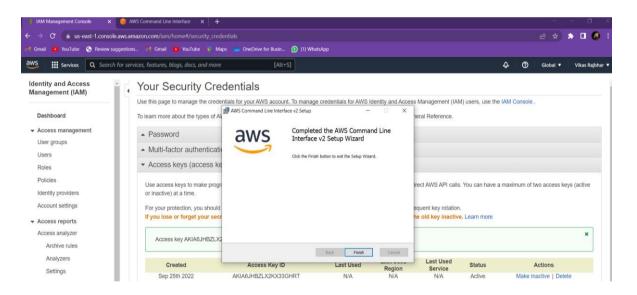
d) Enter a name for the role then click on Create role.
 New role is created



- 4. Installing and using aws cli.
- a) Search for aws cli installation wizard and download it.



b) Run the wizard.Complete the installation



c) Confirm the installation using the **aws --version** command in the command prompt.

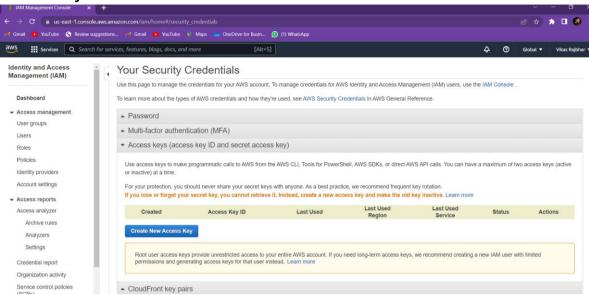
```
Command Prompt

Microsoft Windows [Version 10.0.19043.2006]
(c) Microsoft Corporation. All rights reserved.

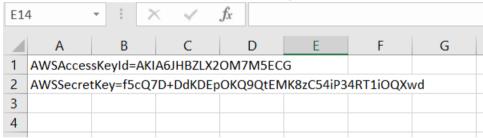
C:\Users\Admin>aws --version
aws-cli/2.7.35 Python/3.9.11 Windows/10 exe/AMD64 prompt/off

C:\Users\Admin>
```

d) Now go to Security credential in your profile and click on Access key to Create New Access Key.



e) Use the Access key and secret key to Configure admin user.



Command Prompt

- 5. AWS cli commands
- a)Showing Number of iam users

#### Command Prompt

```
C:\Users\Admin>aws configure
AWS Access Key ID [****************G7N5]: AKIA6JHBZLX20M7M5ECG
AWS Secret Access Key [**************njOH]: f5cQ7D+DdKDEpOKQ9QtEMK8zC54iP34RT1i0QXwd
Default region name [ap-south1]: ap-south1
Default output format [None]:
C:\Users\Admin>aws iam list-users
    "Users": [
             "Path": "/",
"UserName": "user1",
"UserId": "AIDA6JHBZLX2JBKCM4JE4",
             "Arn": "arn:aws:iam::981873548788:user/user1",
             "CreateDate": "2022-09-14T10:11:53+00:00",
             "PasswordLastUsed": "2022-09-14T10:14:36+00:00"
             "Path": "/"
             "Path": "/",
"UserName": "user2",
             "UserId": "AIDA6JHBZLX2LK44UDSWU",
             "Arn": "arn:aws:iam::981873548788:user/user2",
             "CreateDate": "2022-09-14T10:38:59+00:00"
             "Path": "/",
"UserName": "user3",
             "UserId": "AIDA6JHBZLX2COG34G62S",
             "Arn": "arn:aws:iam::981873548788:user/user3",
             "CreateDate": "2022-09-14T11:12:19+00:00"
             "Path": "/",
"UserName": "user4",
             "UserId": "AIDA6JHBZLX2M70IIP5BN",
             "Arn": "arn:aws:iam::981873548788:user/user4",
             "CreateDate": "2022-09-14T11:15:10+00:00"
             "Path": "/"
             "Path": "/",
"UserName": "user5",
             "UserId": "AIDA6JHBZLX2DEEC73CKJ",
             "Arn": "arn:aws:iam::981873548788:user/user5",
             "CreateDate": "2022-09-14T11:17:48+00:00"
C:\Users\Admin>
```

b) Creating user with username Vikas

```
C:\Users\Admin>aws iam create-user --user-name Vikas
        "User": {
                "Path": "/"
                "UserName": Vikas",
                "UserId": "AIDA6JHBZLX2DPAHT53YF",
                "Arn": "arn:aws:iam::981873548788:user/Vikas",
                "CreateDate": "2022-09-25T13:06:56+00:00"
C:\Users\Admin>
                  X AWS Command Line Interface X 1 (1) WhatsApp
                                                                                                                  e 🖈 🖈 🛘 🐧
      C  us-east-1.console.aws.amazon.com/iamv2/home#/groups/details/ADMIN1?section
     Services Q Search for services, features, blogs, docs, and more
                                                                                                                  Global ▼ Vikas Rajbhar
  Identity and Access
  Management (IAM)
                           Summary
                                                                                                                      Edit
  Q Search IAM
                           User group name
                                                            Creation time
                                                                                             ARN
                                                            September 14, 2022, 15:37 (UTC+05:30)
                                                                                             @ arn:aws:iam::981873548788:group/ADMIN1
                           ADMIN1
  Dashboard
  User groups
                            Users Permissions Access Advisor
  Users
  Roles
                             Users in this group (4) Info
                                                                                              2 Remove users Add users
                            AWS.
  Account settings
                                                                                                               < 1 > @
 ▼ Access reports
                              User name ☑
                                                                             Groups
                                                                                                             Creation time
                                                                                            Last activity
   Analyzers
                                user3
                                                                                            None
                                                                                                             11 days ago
   Settings
  Credential report
  Organization activity
                                 Vikas
                                                                                                             1 minute ago
  Service control policies (SCPs)
                                                                                                             11 days ago
                                                                                            11 days ago
```

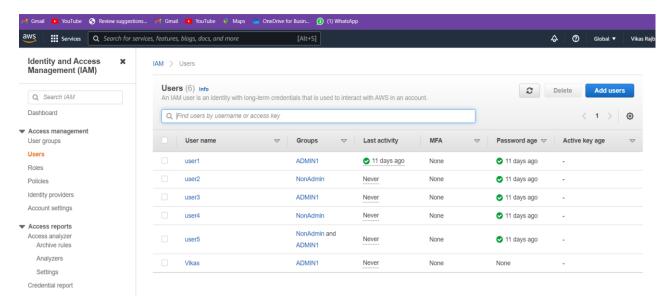
## c)Adding the user Vikas to a group Admin1

```
Command Prompt

Microsoft Windows [Version 10.0.19043.2006]

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C:\Users\Admin>aws iam add-user-to-group --group-name ADMIN1 --user-name Vikas
```



d)remove user from admin group from console

C:\Users\Admin>aws iam delete-user --user-name Vikas