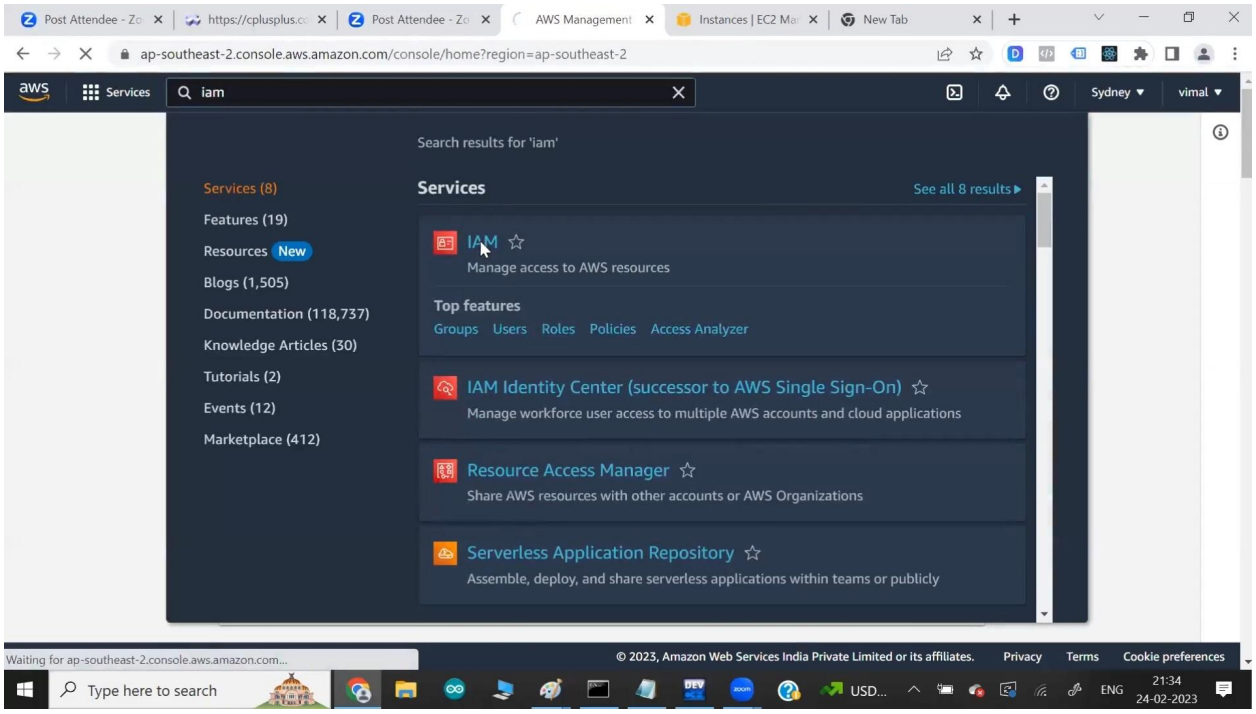
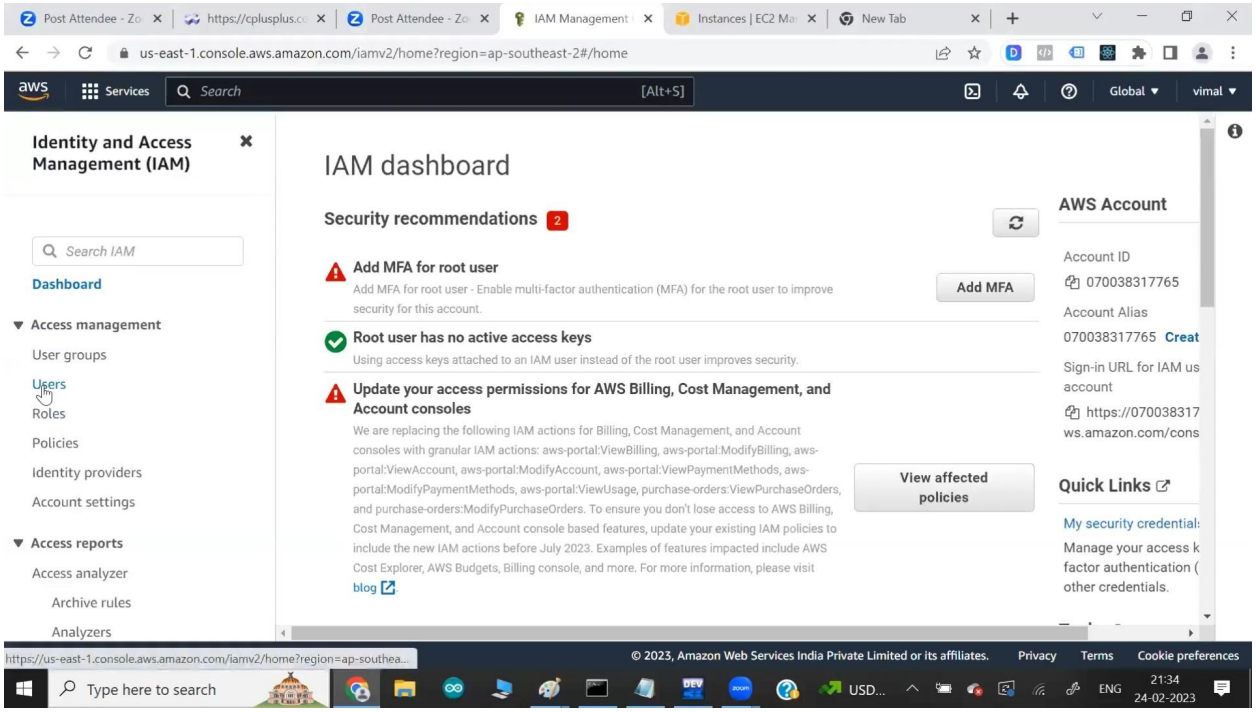
AWS Session 6
Summary – 24-02-2023

- If we want to keep monitoring your physical resources then we have service available in AWS called **Cloud Watch.**
- How much memory is utilize?, How much CPU is used?, How much Network Bandwidth is used?, How much data is transferred from internet to instance? All of this terms are known as **Metrics.** Cloud watch give you way to monitor multiple Metrics.
- IAM stands for Identity Access Management.
- IAM allows you to manage users and their level of access to the aws console.
- With the help of IAM if you want to give limited power to user you can use this service.

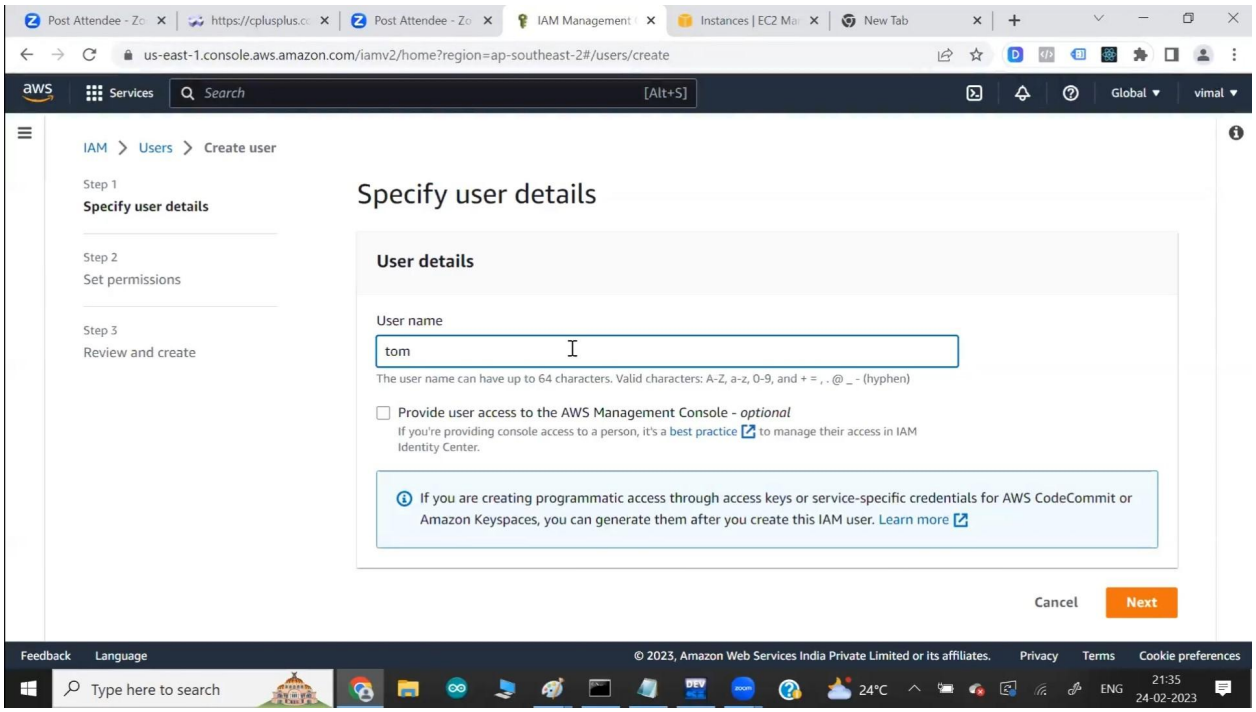
- Search IAM in the search option:



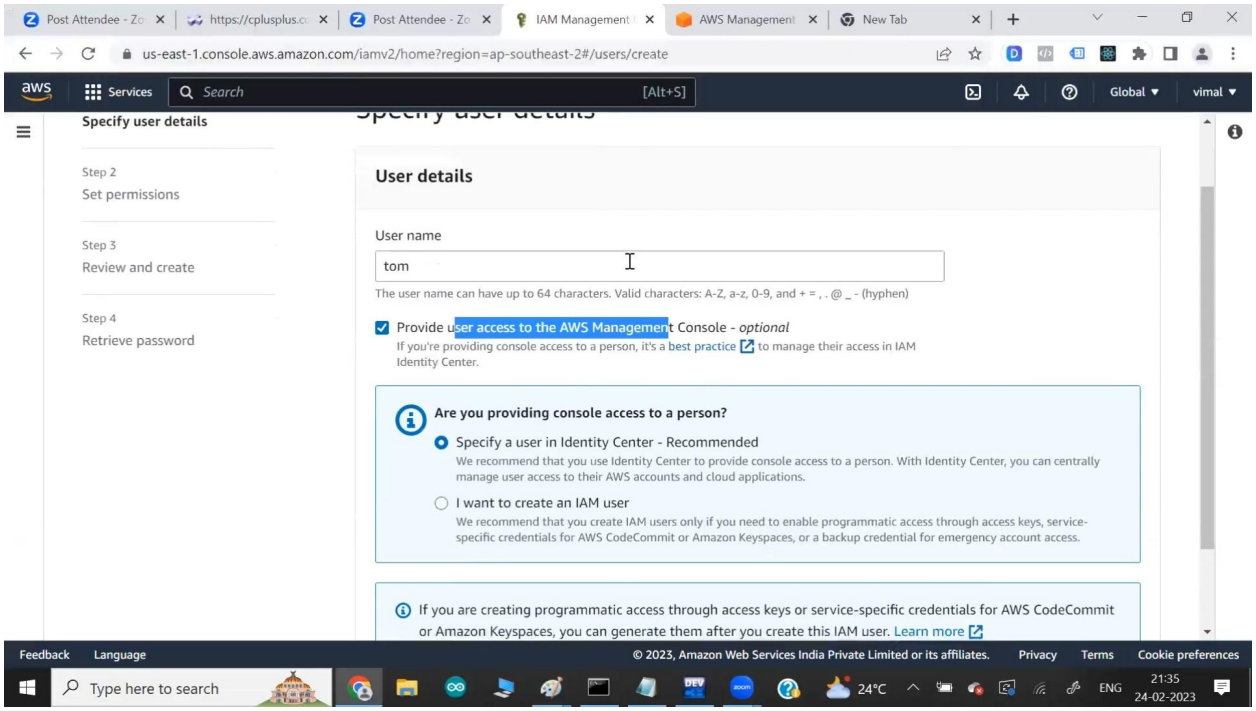
- Click on the users:



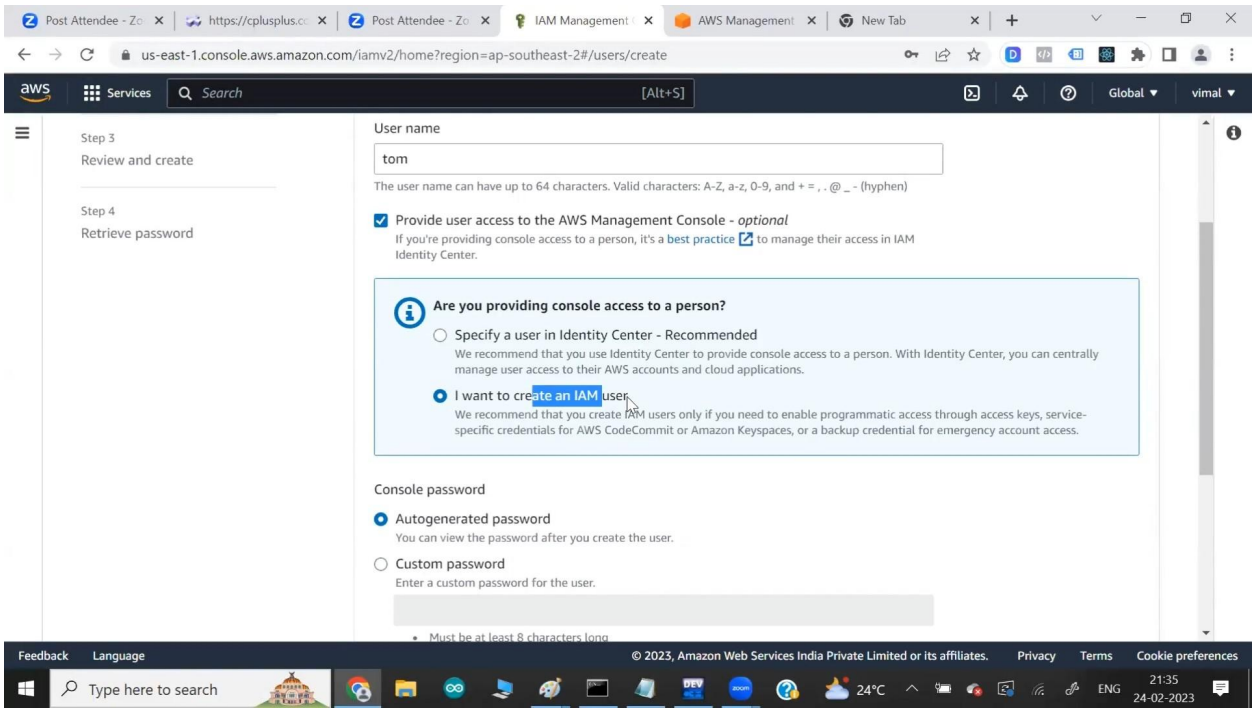
- GIve the user details which you want to create:



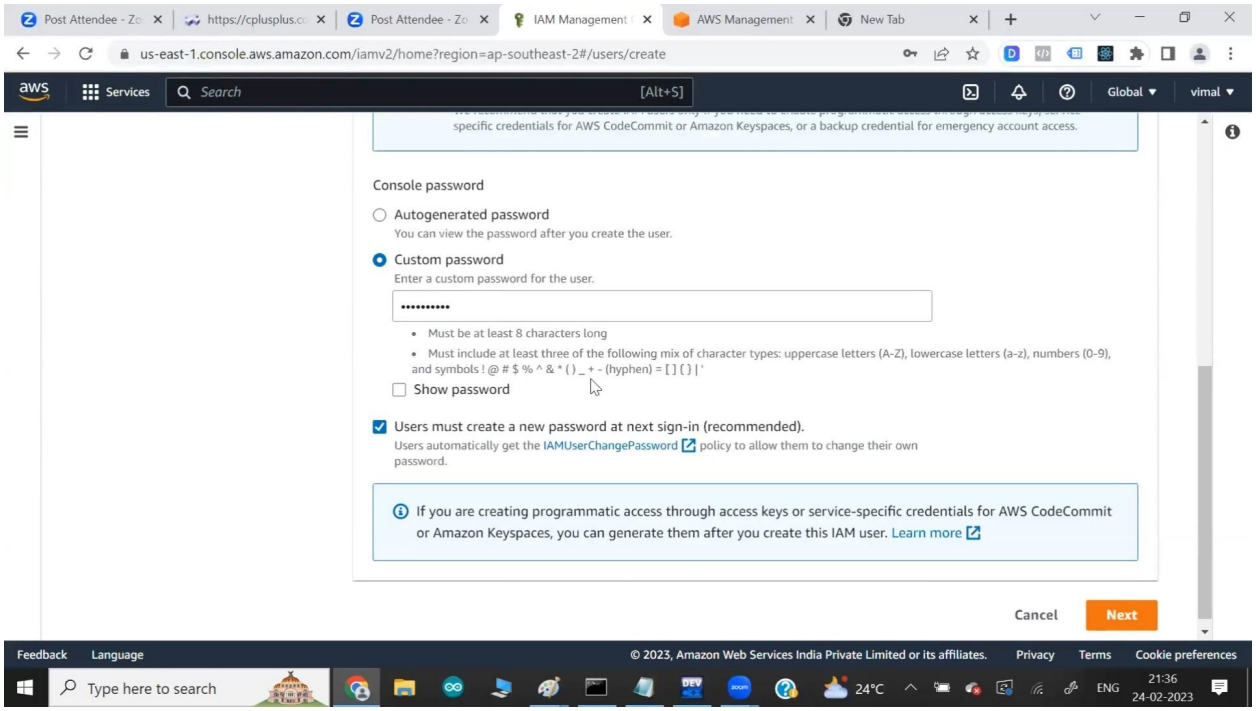
- Click on the provide access to the AWS Management Console , this will give user access to access the AWS console:



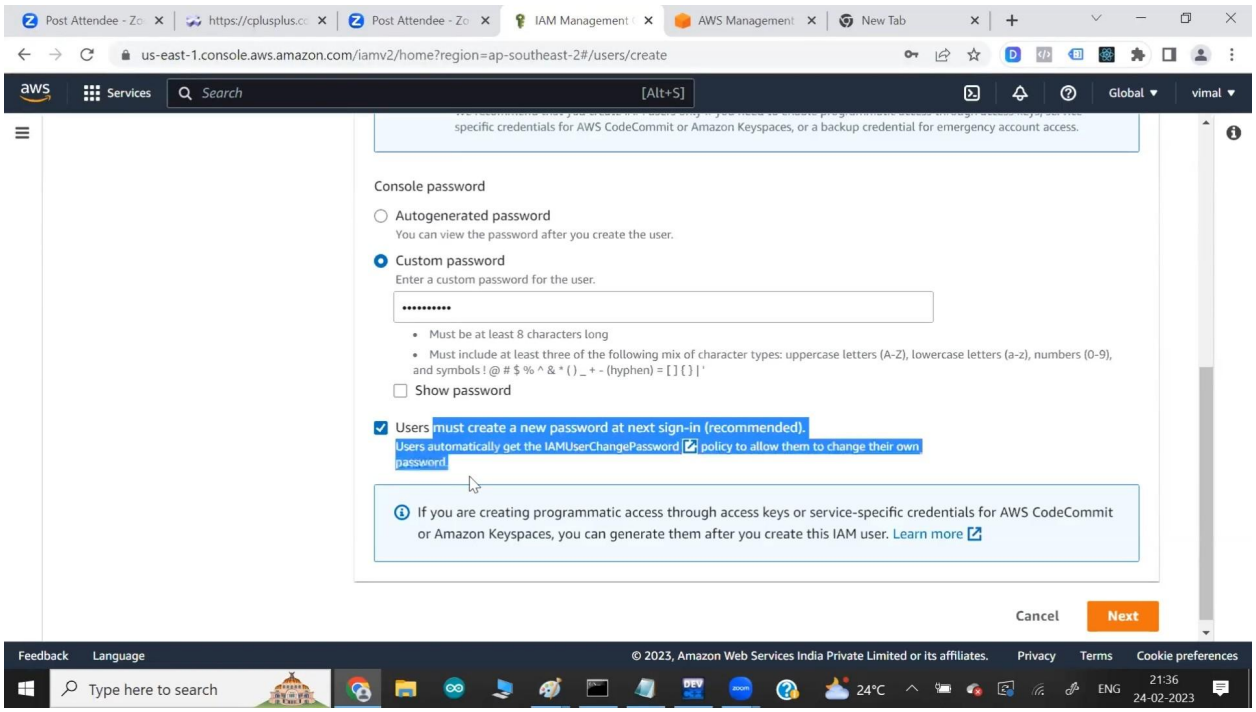
- Click on i want tot create IAM user:



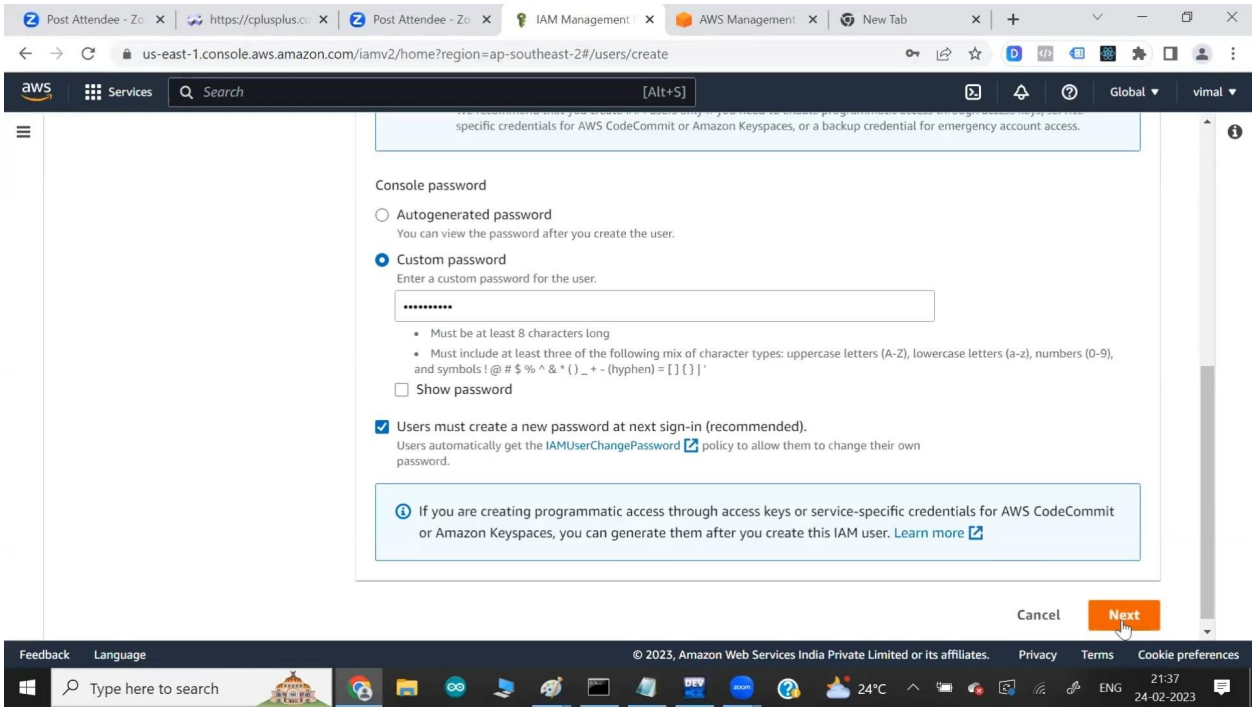
- Type the password:



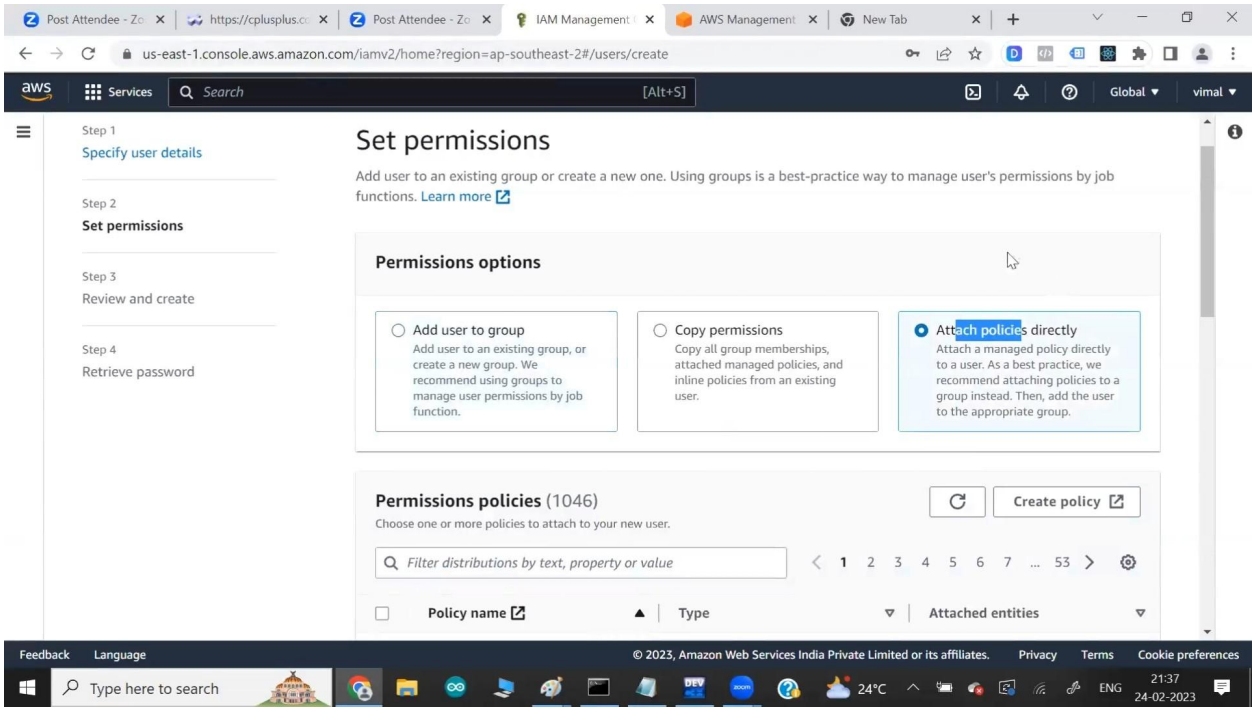
- Click on user must create a new password at next sign-in , after login in the user will get the option on the screen to reset the password.



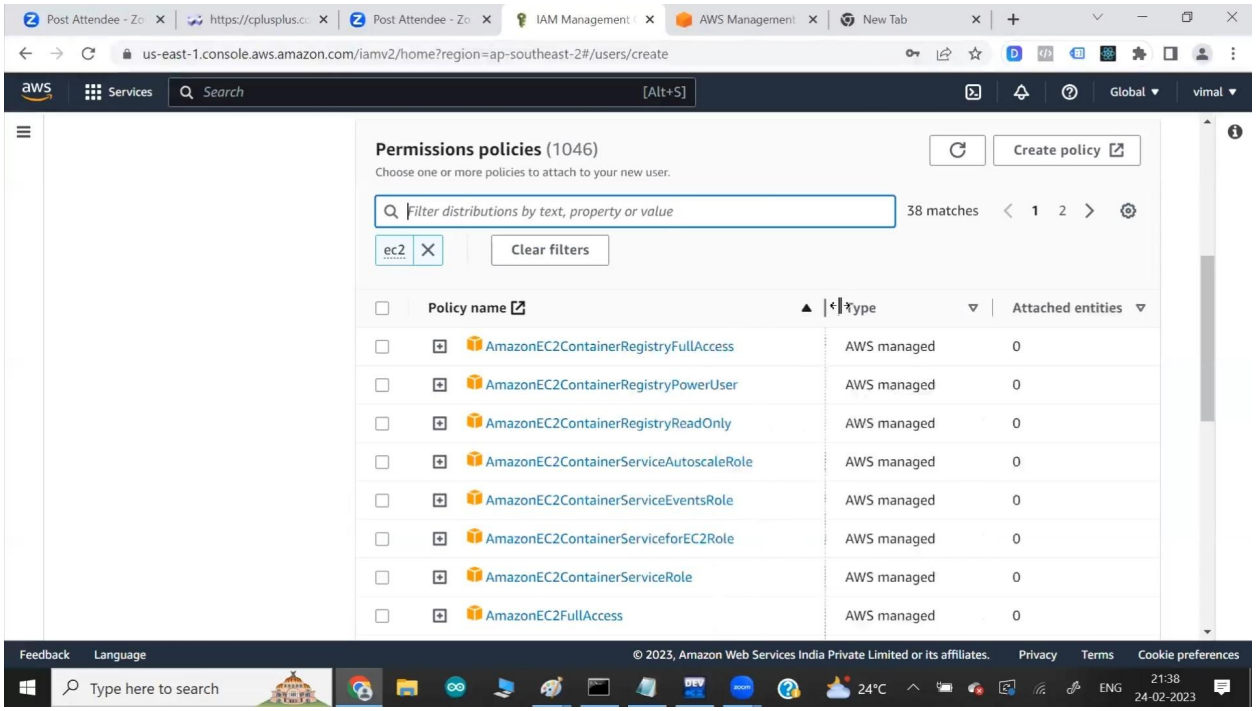
- Click on next:



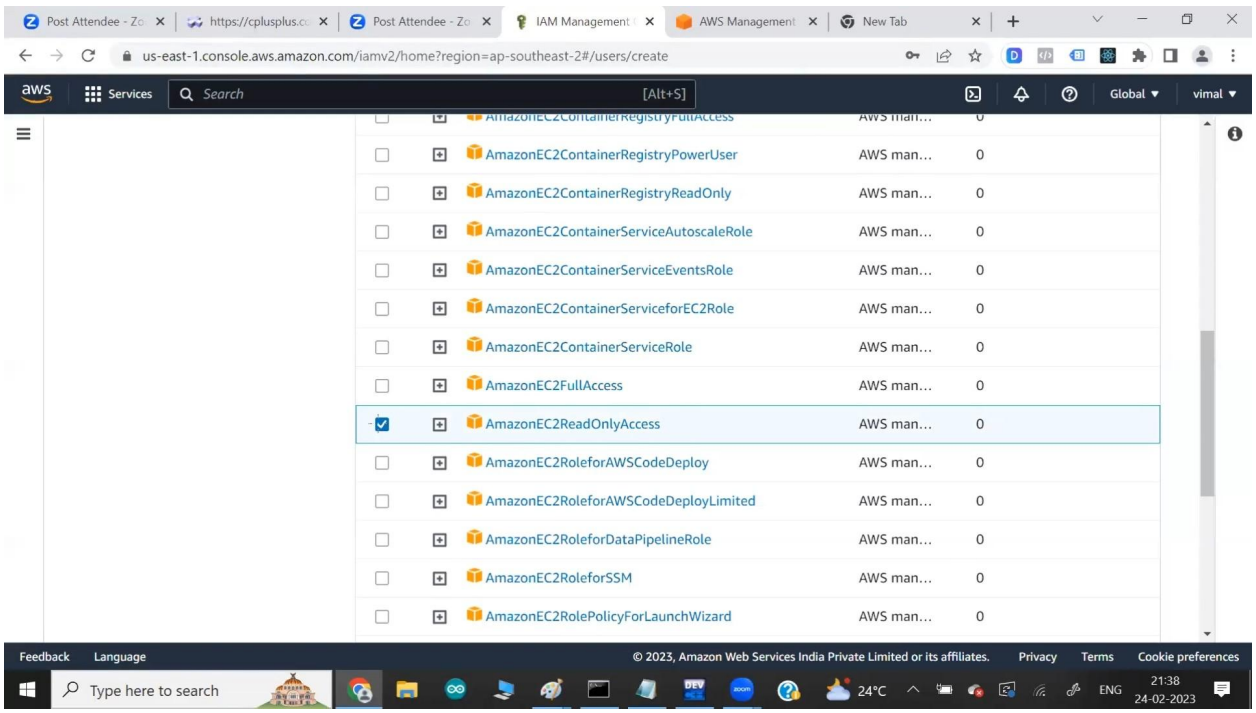
- Set the permissions on the user , What user can access, what should the user read etc.



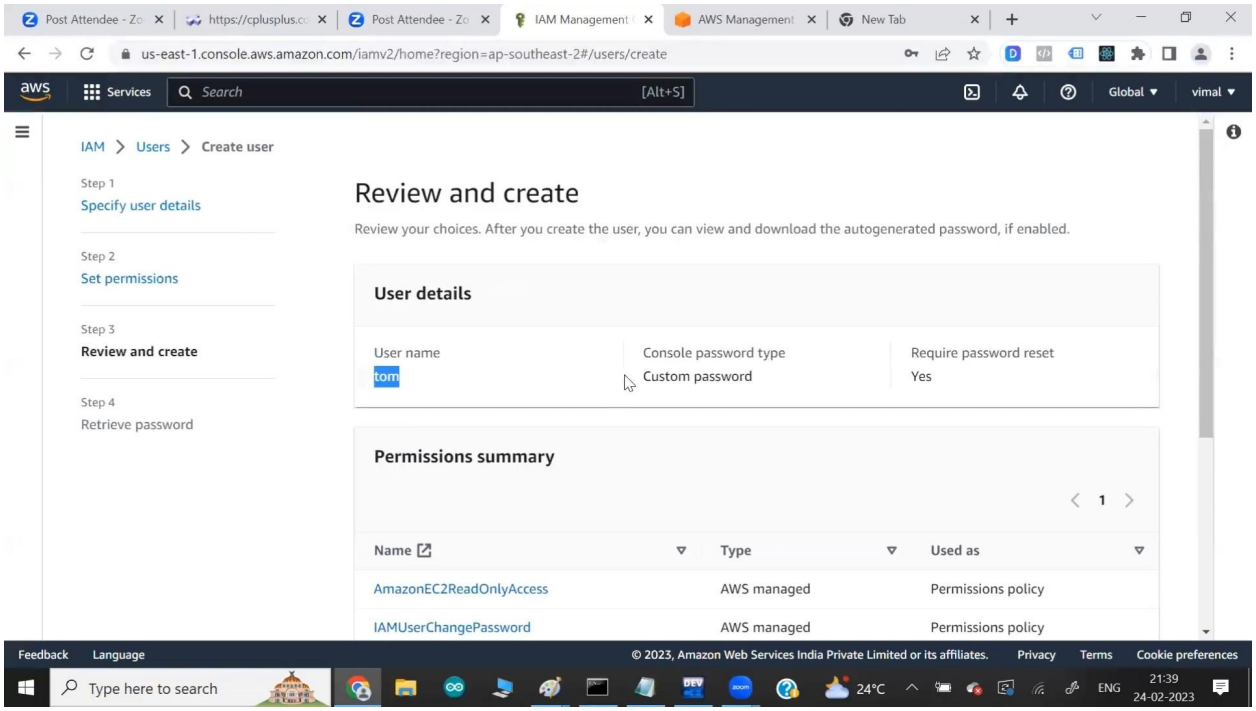
- Search the service which you want to give access to the user , here in this case we are search for EC2 service.



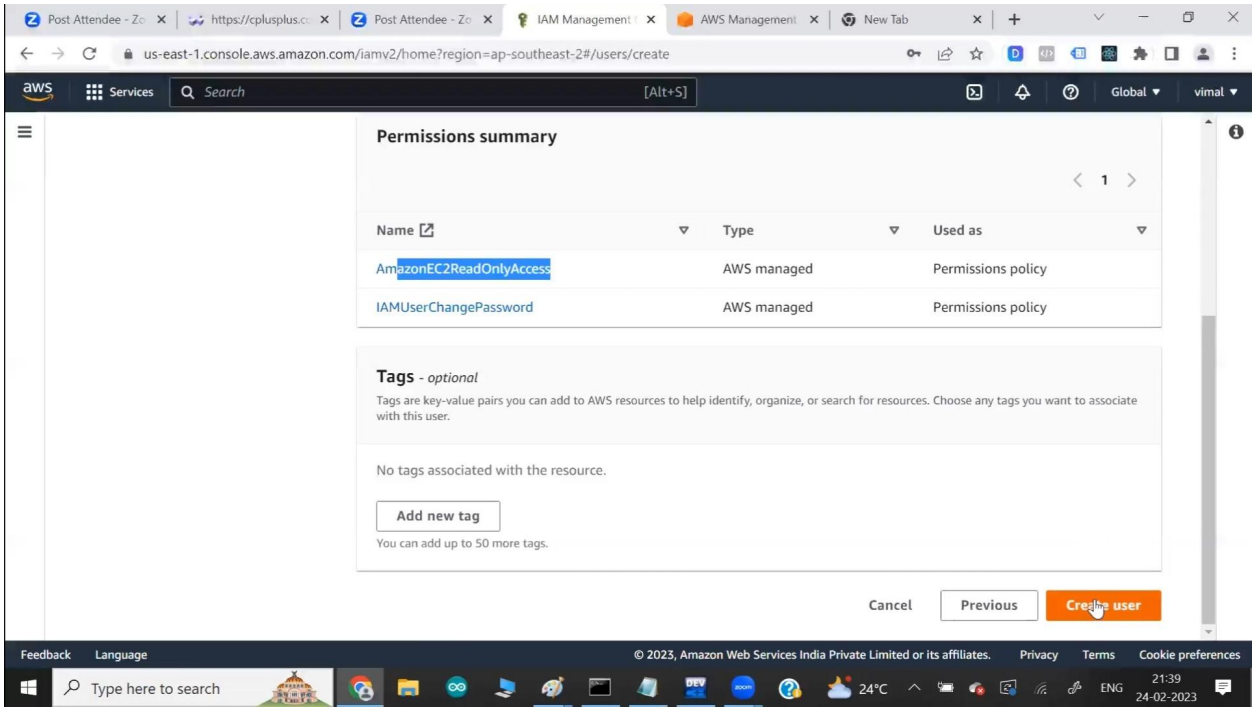
- Here we have selected readonly access in which user cannot create the files or update the files . User will only be able to read the files.



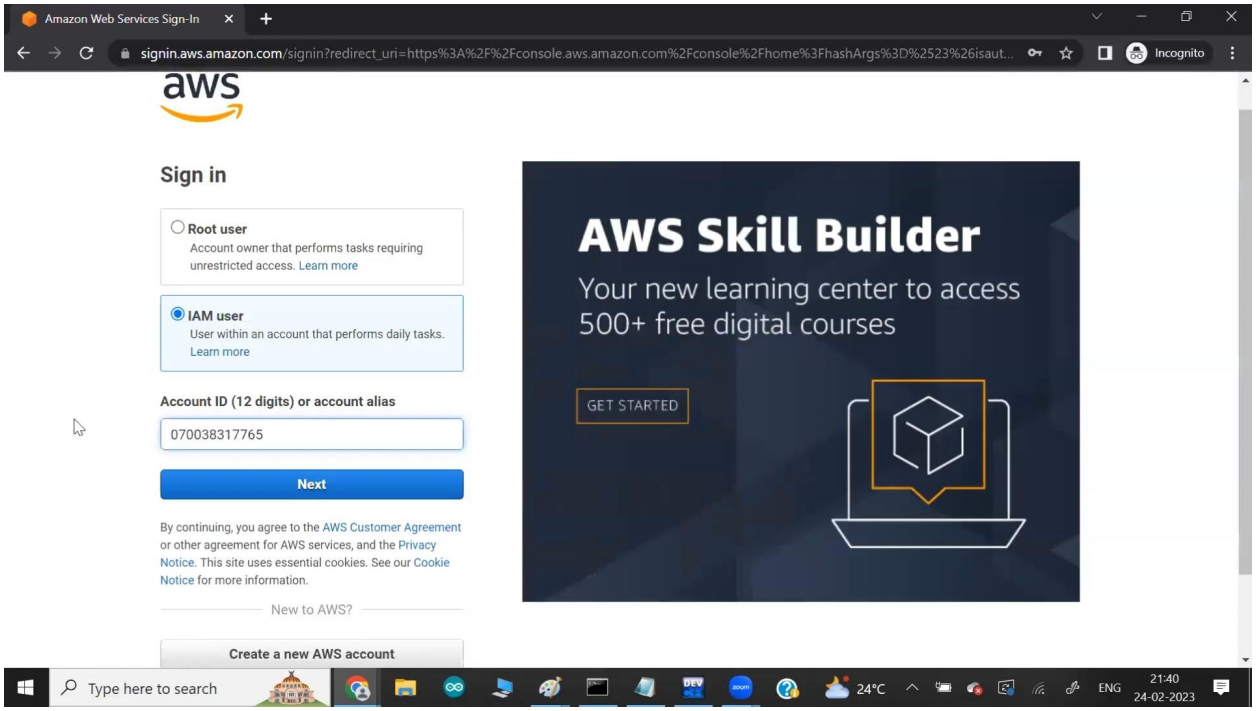
- After clicking on next , you will get the summary of the user and the permissions given.



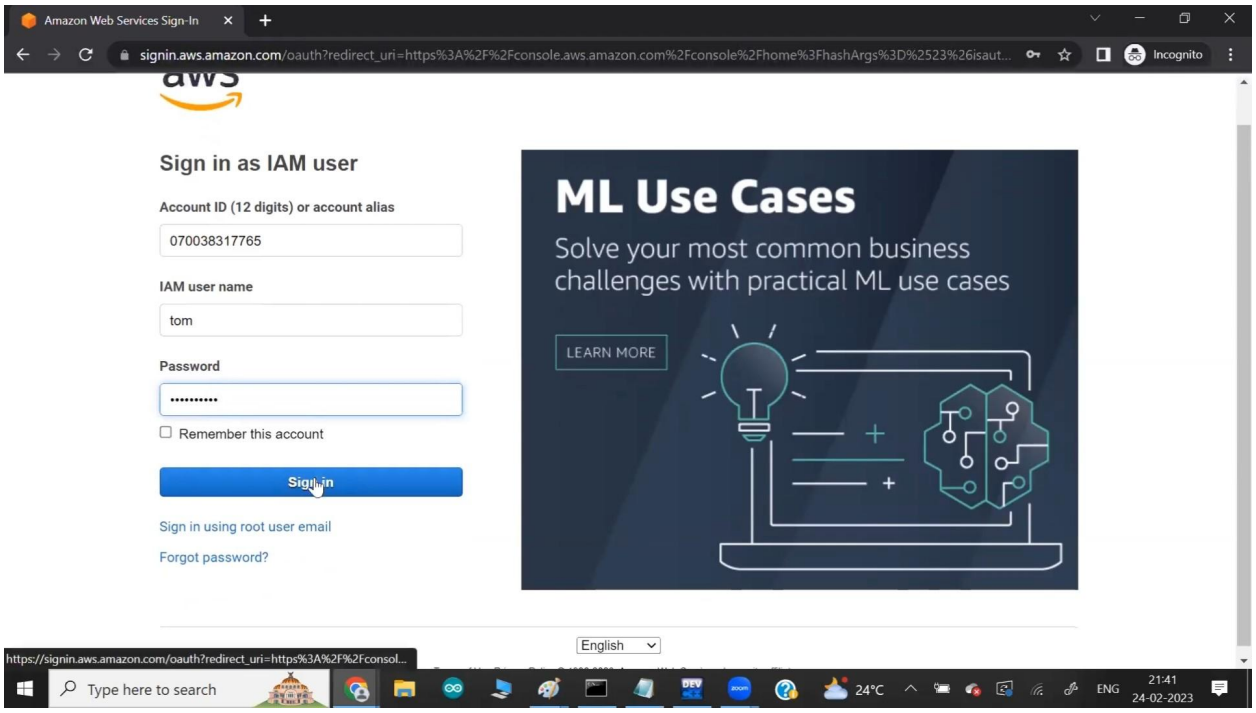
- Click on Create user and the user will be created:



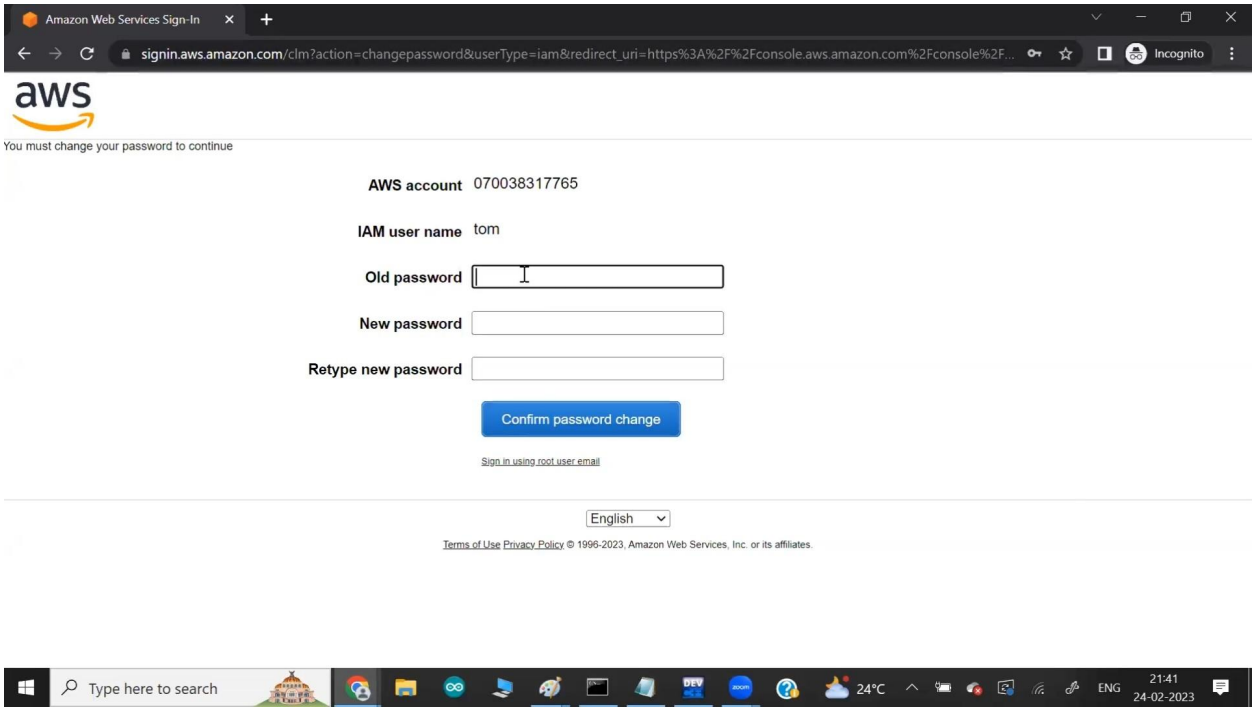
- Click on the IAM user and provide the id of the ROOT account because IAM user is the sub account of the root user.



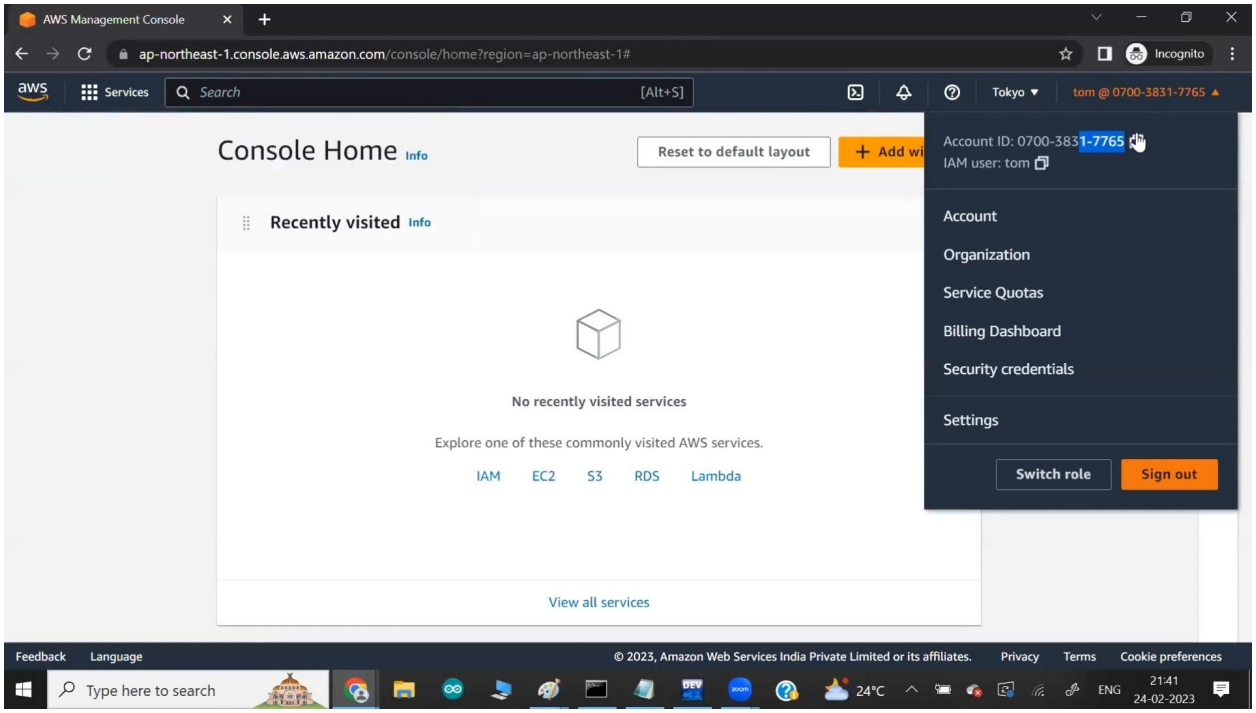
- Provide the details and click on sign in:



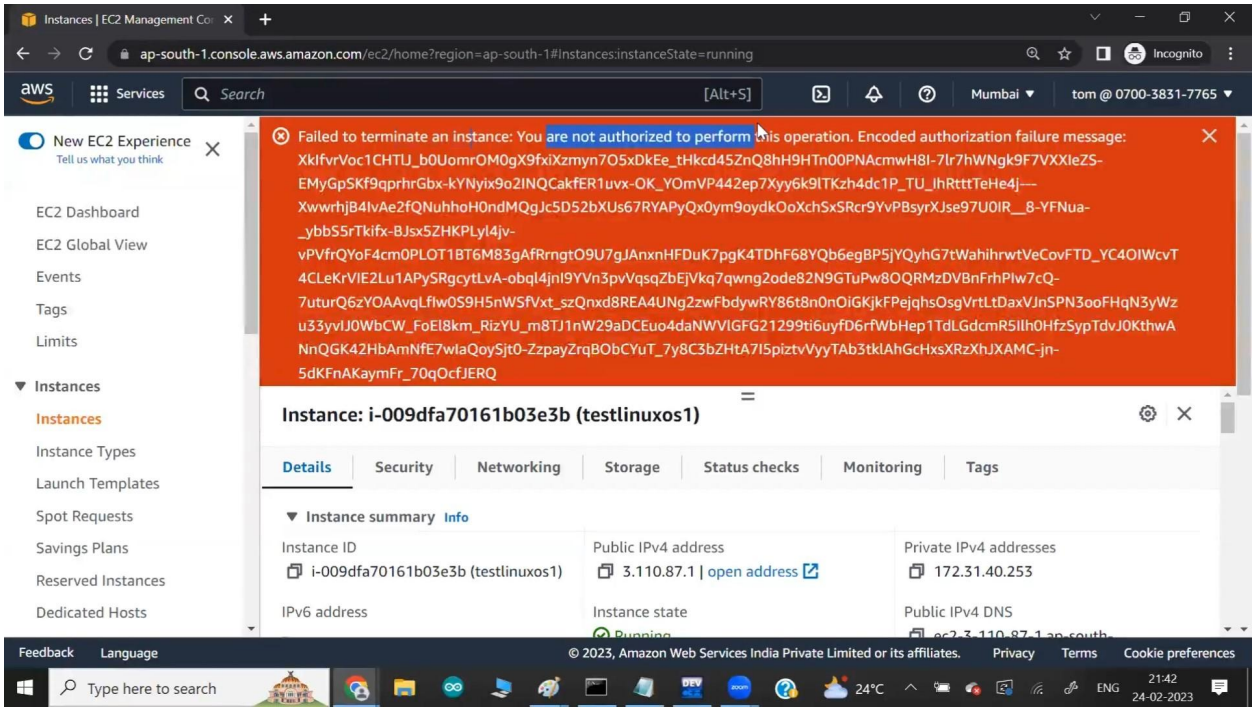
- Reset the password and click on confirm:



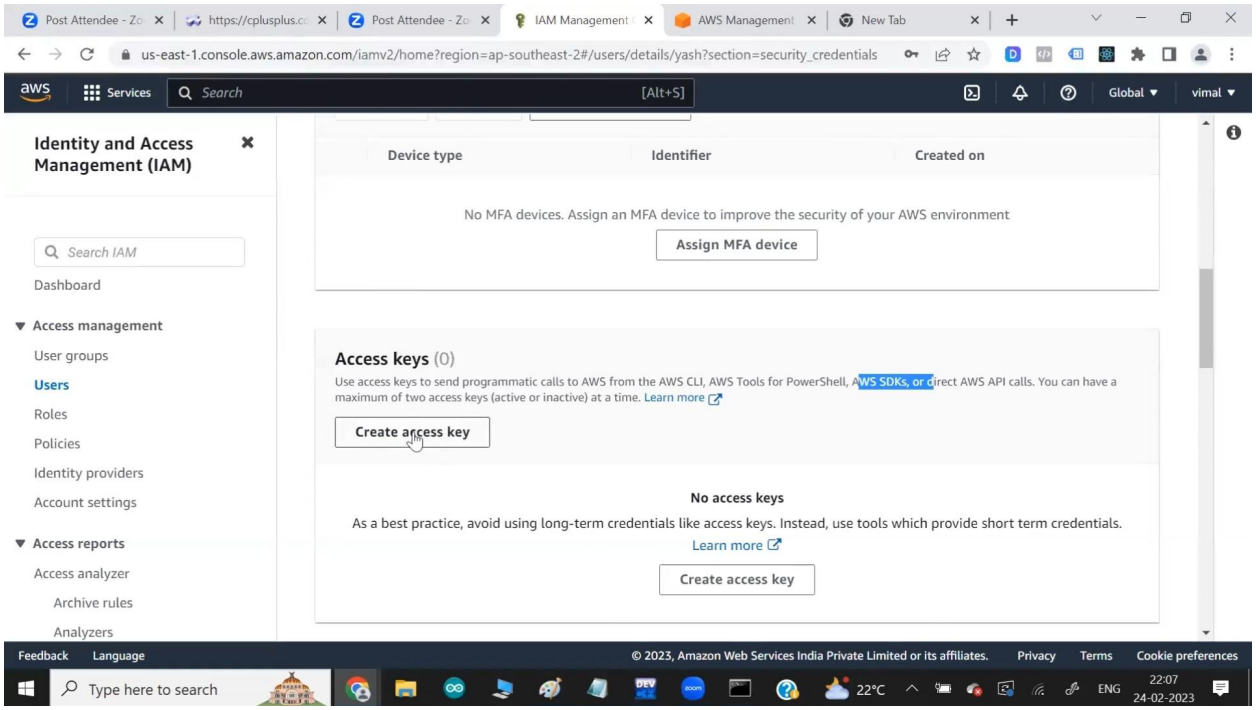
- You can the the IAM user created in the top right corner:

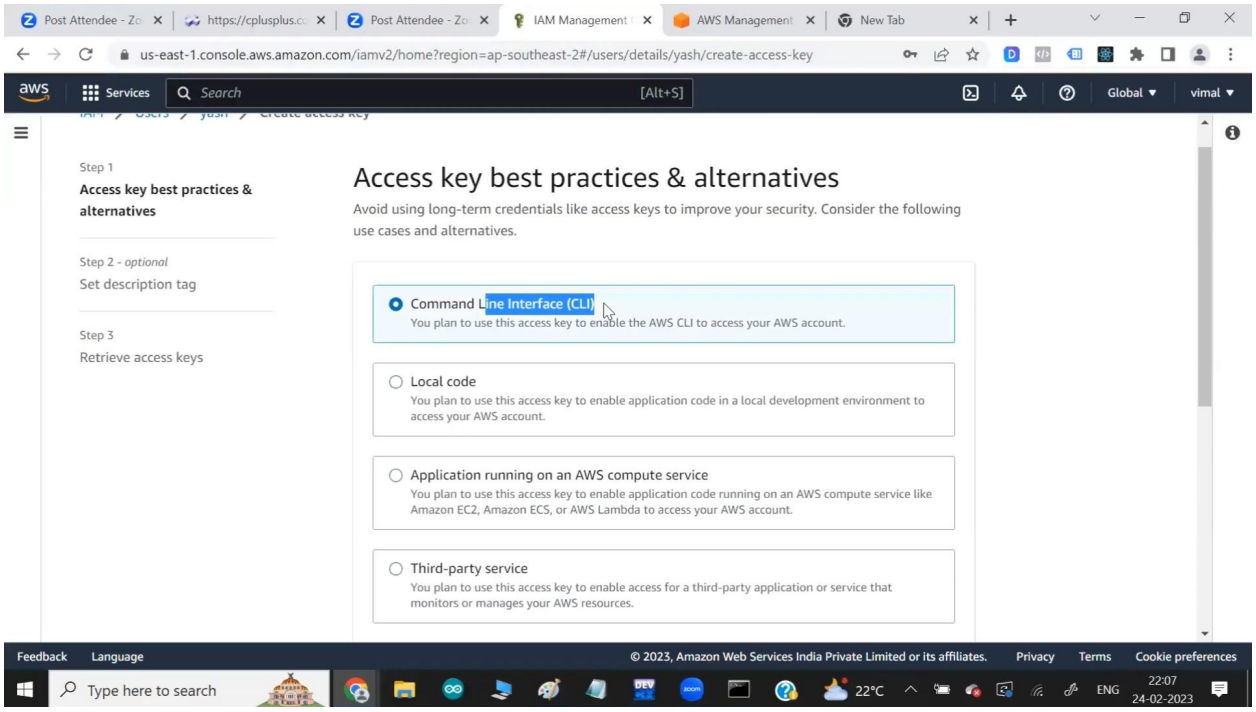


- As this user has only read power in ec2 service other than this if the user tries to do anything, for example:- user tries to terminated the created instance it will prompt on the screen access denied.

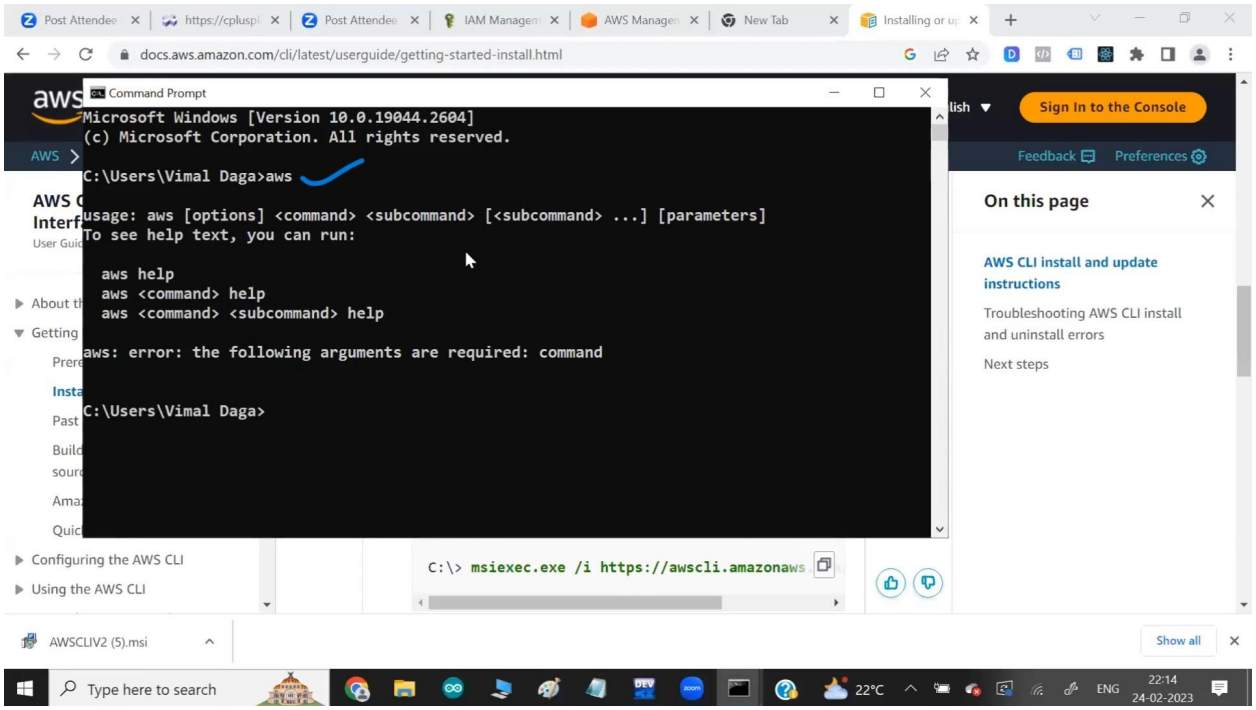


- You can also create the user and give the full access.
- You can use all the AWS services with the
    - Console (WebUI)
    - Command line Interface(CLI).
    - API
- When user wants to login as human beign user logins with the help of username and password.
- When user wants to login programmatically, user need access key and secret key to login.

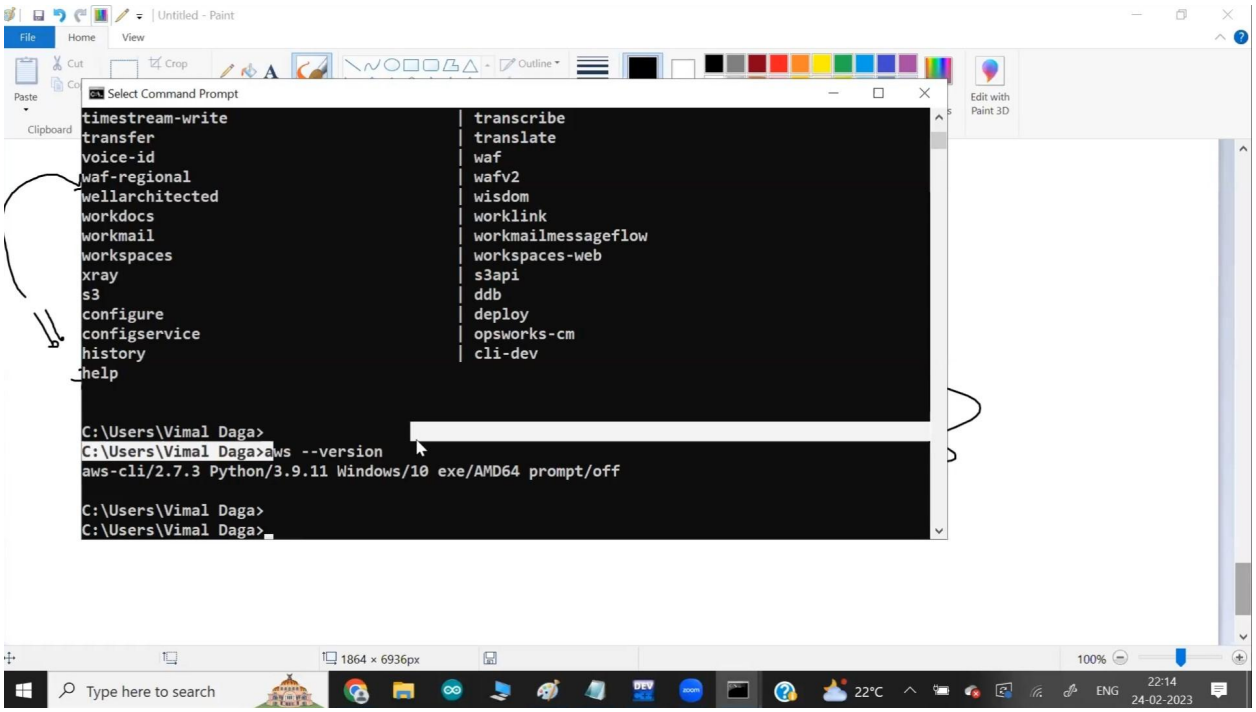




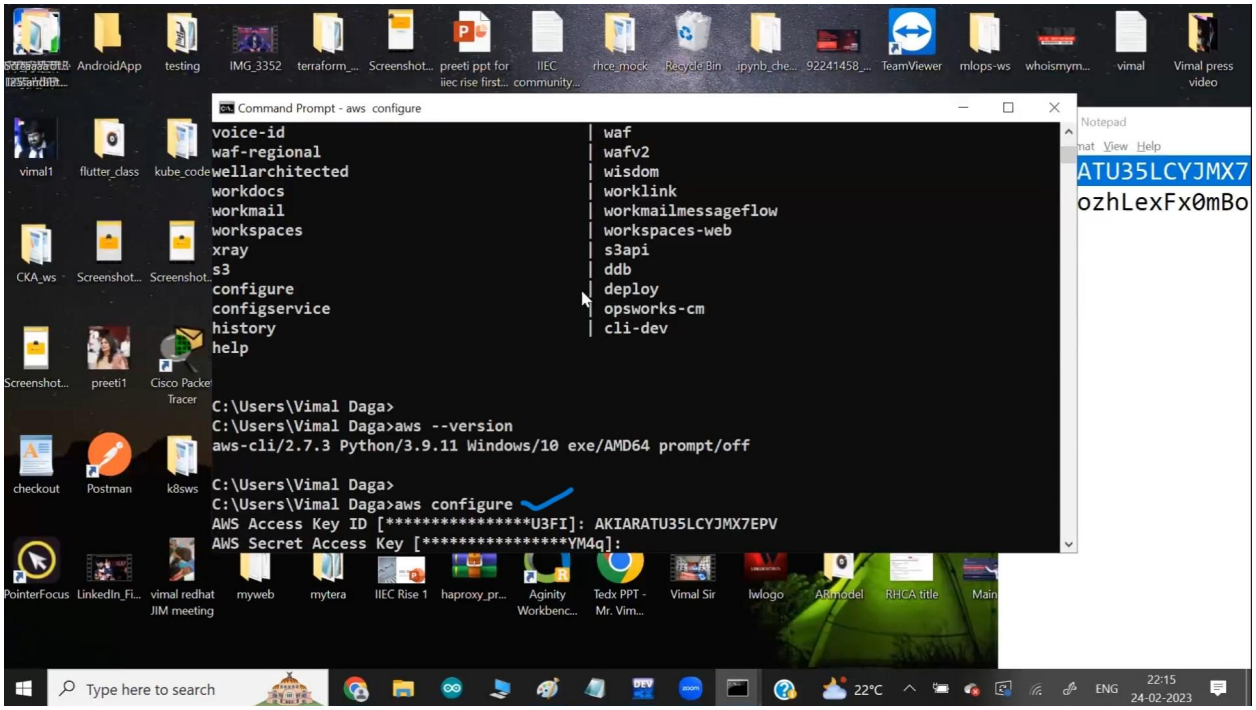
- To login via CLI you need to download AWS CII.
- Link to Download AWS CLI :- https://awscli.amazonaws.com/AWSCLIV2.msi
- Install the software.
- Open your command prompt and type **aws** you will see the aws cli has downloaded and installed.



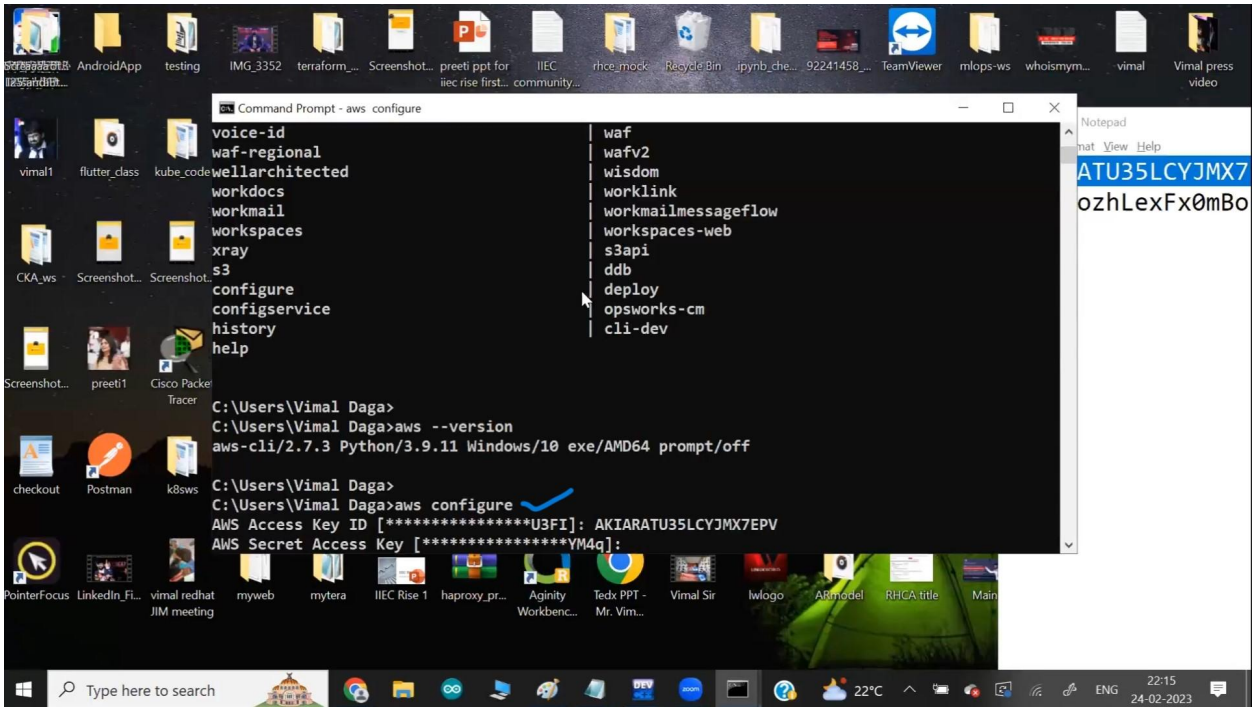
- aws –version will show you which version you have installed.



- aws configure this command will help you to login via CLI into AWS, you need to provide access key and secret key.

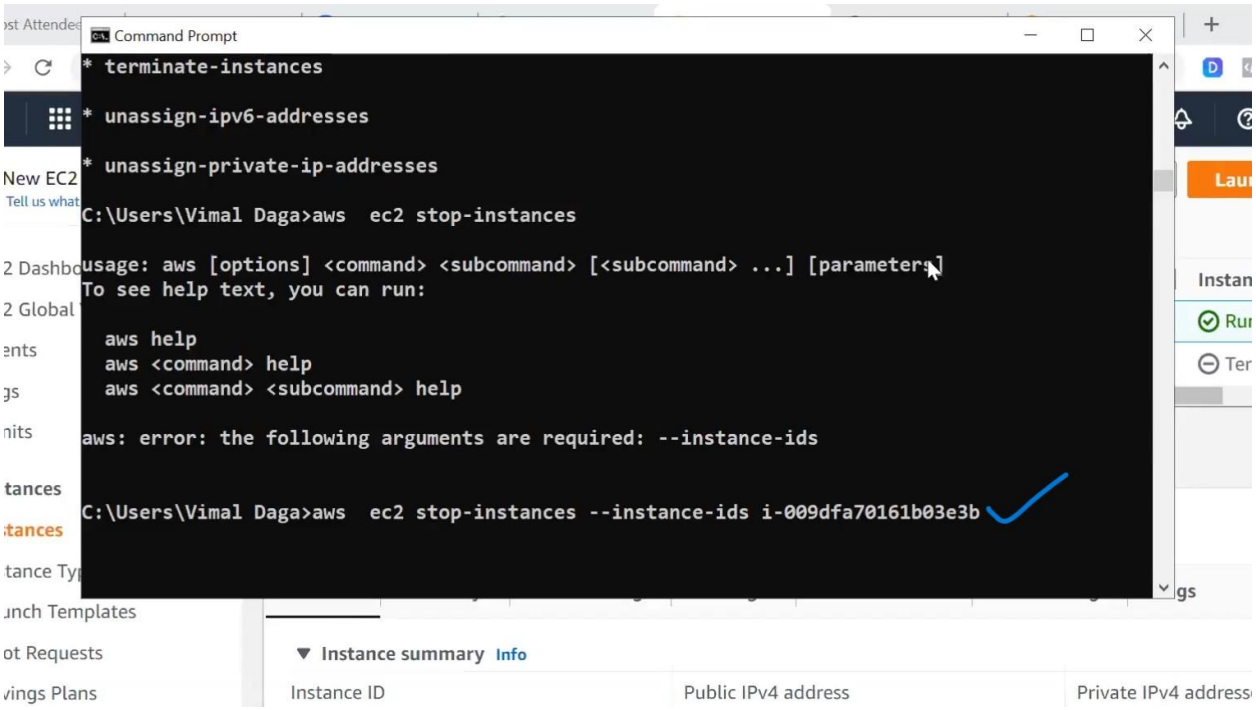


- Enter youraccess key and secret key.
- You need to provide region in which you want to login.



- You can list the commands by simply typing aws <subservice name> :

- Aws ec2 stop-instances –instance-ids <id of your instance> :
- This command will stop the running instance with the id provided.



- Similarly you can start the instance also you can launch the instance using CLI and do many more things.