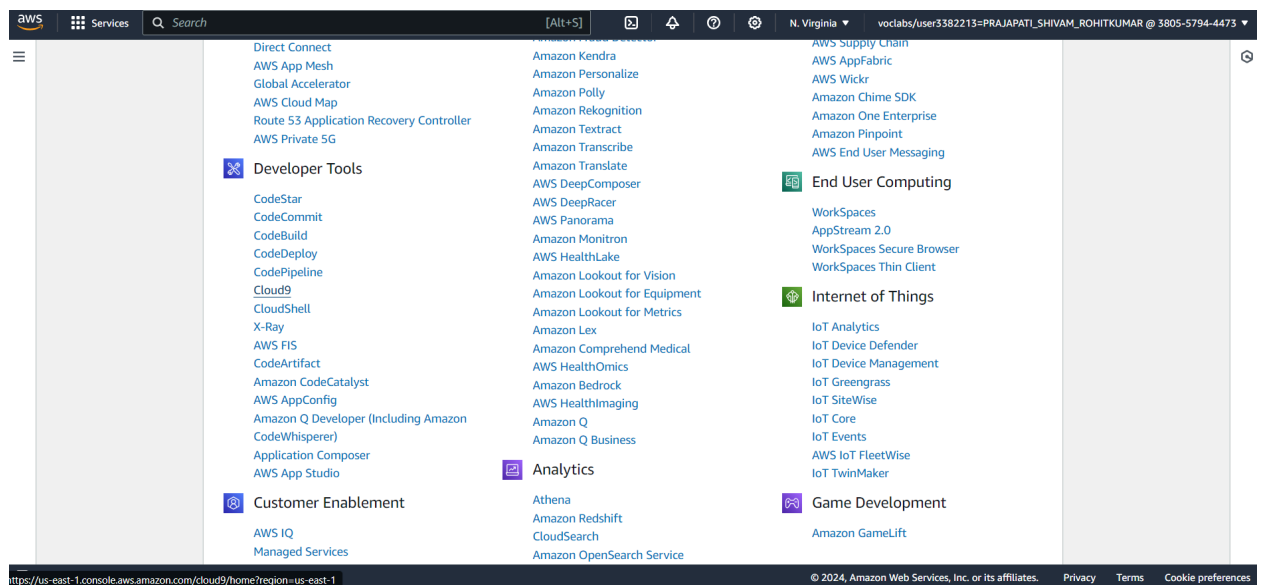


## Experiment No: 1(B)

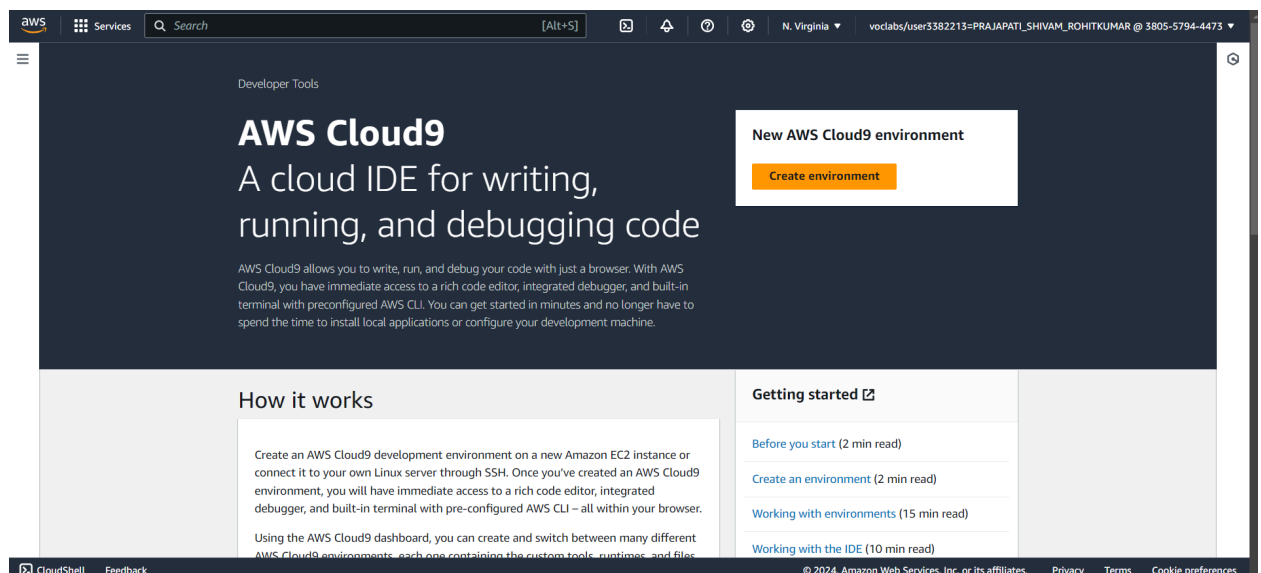
**Aim:** To understand the benefits of Cloud Infrastructure and Setup AWS Cloud9 IDE, Launch AWS Cloud9 IDE and Perform Collaboration Demonstration.

### Step 1: Set up a Cloud9 environment.

- 1) Go to Cloud9 services under developers tool in All services



- 2) Click on create environment



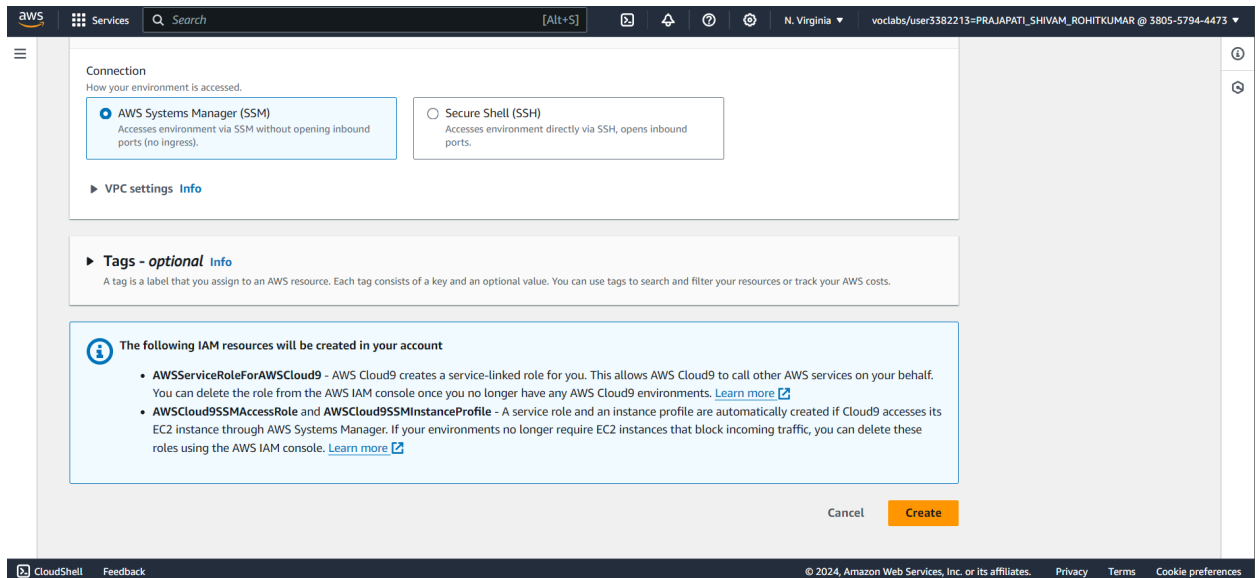
3) Give the name to your Environment ,keeping the other settings as default like environment type should be New EC2 instance

The screenshot shows the 'Create environment' page in the AWS Cloud9 console. The 'Name' field is filled with 'WebAppIDE'. The 'Description' field is empty. The 'Environment type' is set to 'New EC2 instance'. The 'New EC2 instance' section is expanded, showing the 'Instance type' as 't2.micro (1 GiB RAM + 1 vCPU)'. The 'Platform' is set to 'Amazon Linux 2023'. The 'Timeout' is set to '30 minutes'.

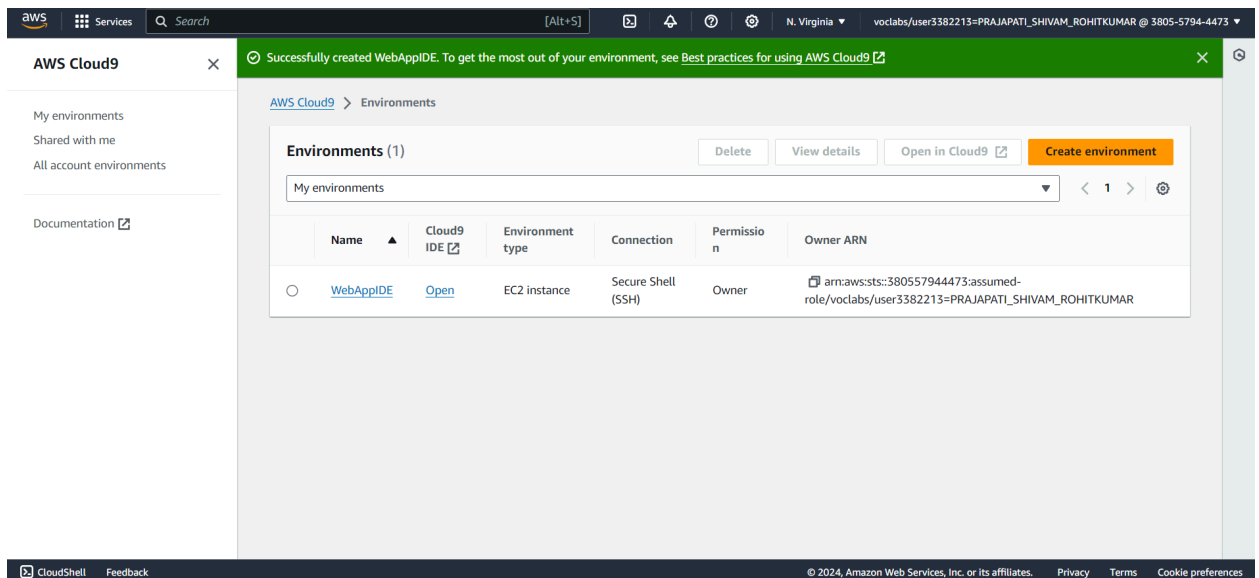
4) Select the correct platform type as shown below and keep the others details as default like instance type as t2.micro which gives the user 1GB RAM + 1 Virtual CPU

The screenshot shows the 'New EC2 instance' page in the AWS Cloud9 console. The 'Instance type' is set to 't2.micro (1 GiB RAM + 1 vCPU)'. The 'Platform' is set to 'Amazon Linux 2023'. The 'Timeout' is set to '30 minutes'.

5) Click on SSH under connection type in network settings if we go for AWS Manager(SSM) then it won't allow to create an environment then click on Create

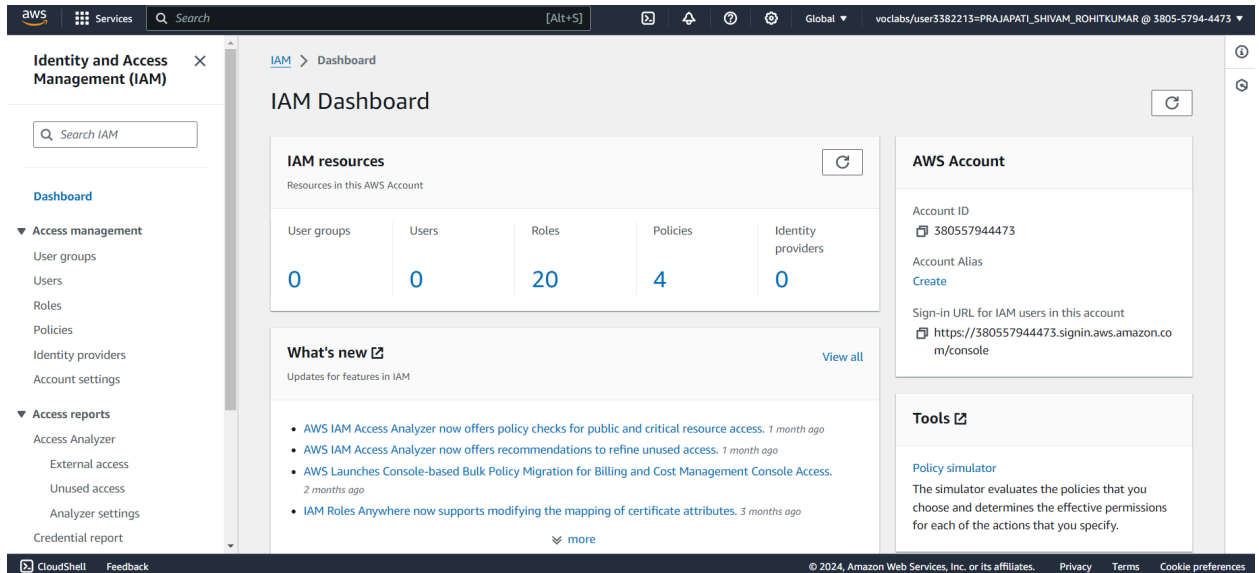


6) Successfully created the environment so now click on open

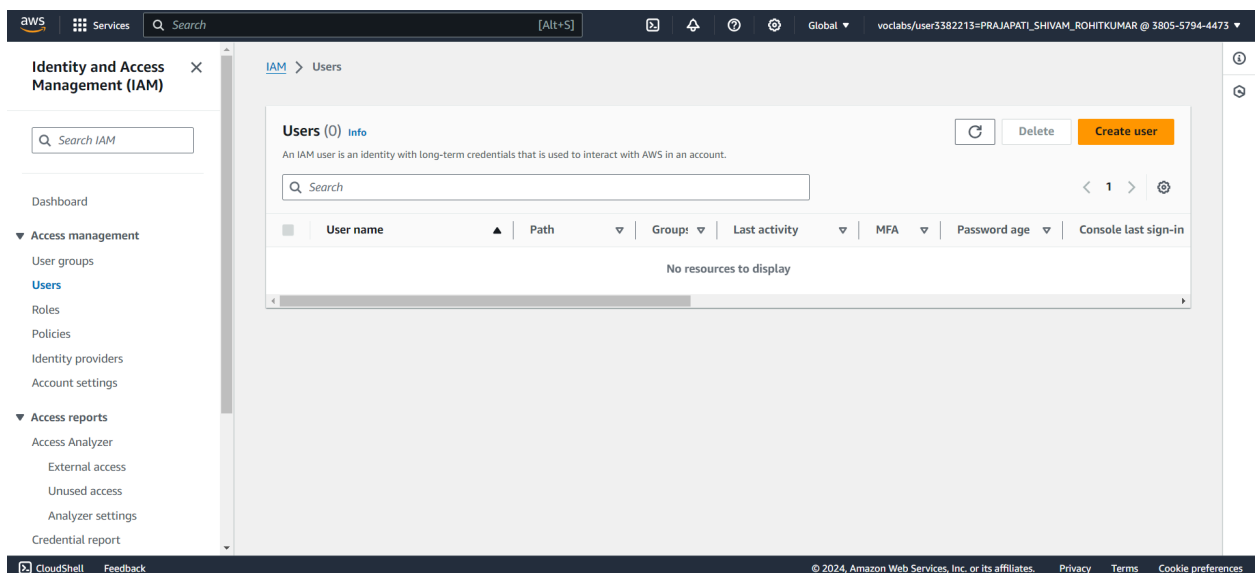


## Step 2: Creating IAM user.

1) Search IAM on the services search bar and open it. Click on Create User



2) Click on the create user



3) Write the name of the user you want to add and click on next

aws Services Search [Alt+S] Global voclabs/user3382213=PRAJAPATI\_SHIVAM\_ROHITKUMAR @ 3805-5794-4473

IAM > Users > Create user

Step 1  
Specify user details

Step 2  
Set permissions

Step 3  
Review and create

### Specify user details

#### User details

User name

apsit

The user name can have up to 64 characters. Valid characters: A-Z, a-z, 0-9, and +, -, @, \_ (hyphen)

☐ Provide user access to the AWS Management Console - optional  
If you're providing console access to a person, it's a best practice to manage their access in IAM Identity Center.

**Info** If you are creating programmatic access through access keys or service-specific credentials for AWS CodeCommit or Amazon Keyspaces, you can generate them after you create this IAM user. [Learn more](#)

Cancel **Next**

CloudShell Feedback © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

4) Select add User to Group. If there are no user groups on your accounts, you will have to create one. Click on Create Group. Click on the drop down menu of the set permissions boundary

aws Services Search [Alt+S] Global voclabs/user3382213=PRAJAPATI\_SHIVAM\_ROHITKUMAR @ 3805-5794-4473

IAM > Users > Create user

Step 1  
[Specify user details](#)

Step 2  
Set permissions

Step 3  
Review and create

### Set permissions

Add user to an existing group or create a new one. Using groups is a best-practice way to manage user's permissions by job functions. [Learn more](#)

#### Permissions options

☒ **Add user to group**  
Add user to an existing group, or create a new group. We recommend using groups to manage user permissions by job function.

☐ **Copy permissions**  
Copy all group memberships, attached managed policies, and inline policies from an existing user.

☐ **Attach policies directly**  
Attach a managed policy directly to a user. As a best practice, we recommend attaching policies to a group instead. Then, add the user to the appropriate group.

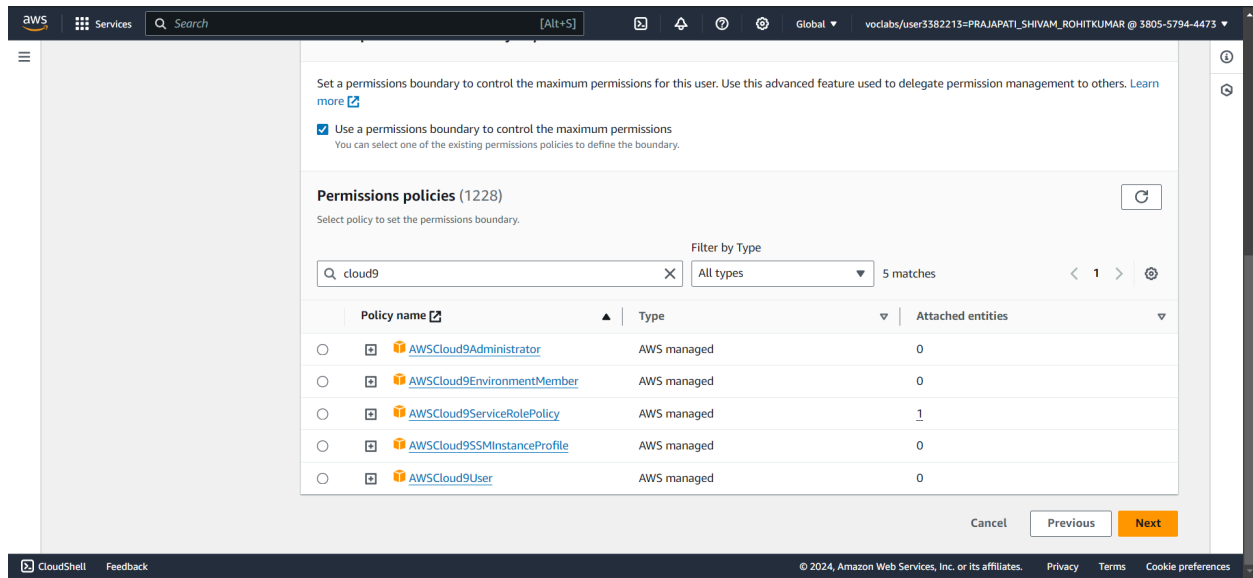
**Info** **Get started with groups**  
Create a group and select policies to attach to the group. We recommend using groups to manage user permissions by job function, AWS service access, or custom permissions. [Learn more](#) **Create group**

► **Set permissions boundary - optional**

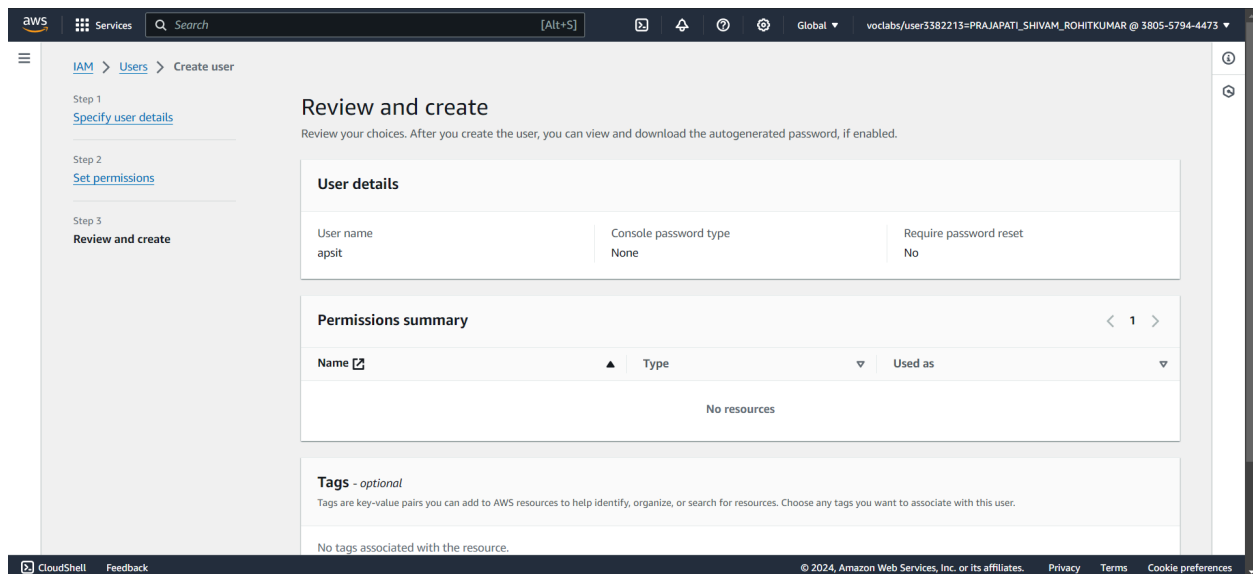
Cancel Previous **Next**

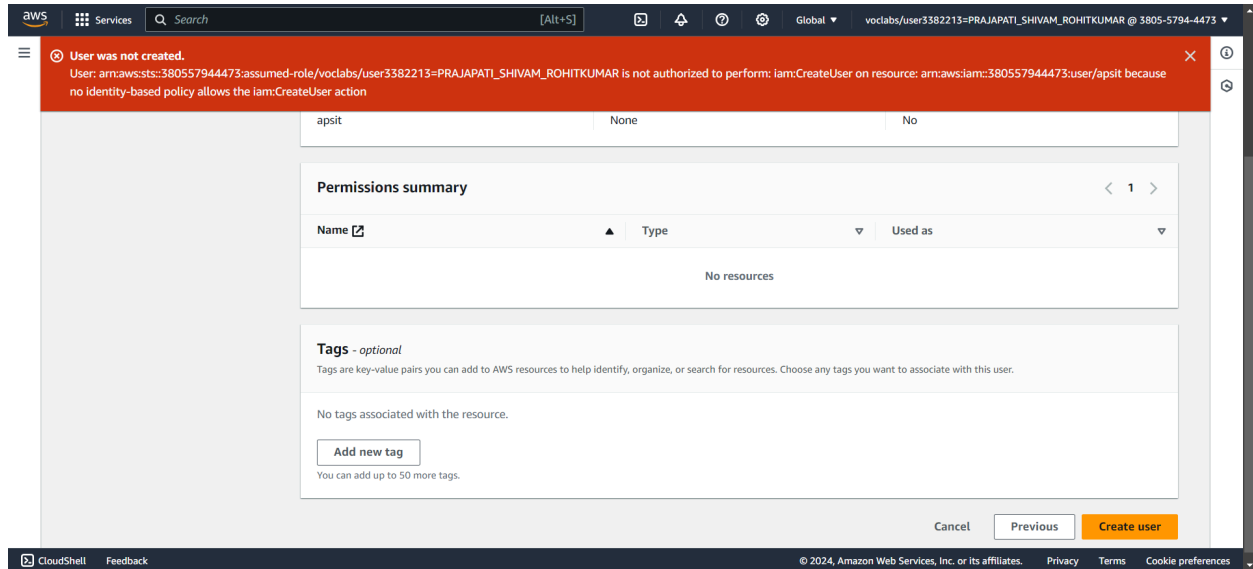
CloudShell Feedback © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

5) Click on the checkbox and search for cloud9 under permissions policies, click on next



6) Scroll down and click on create user

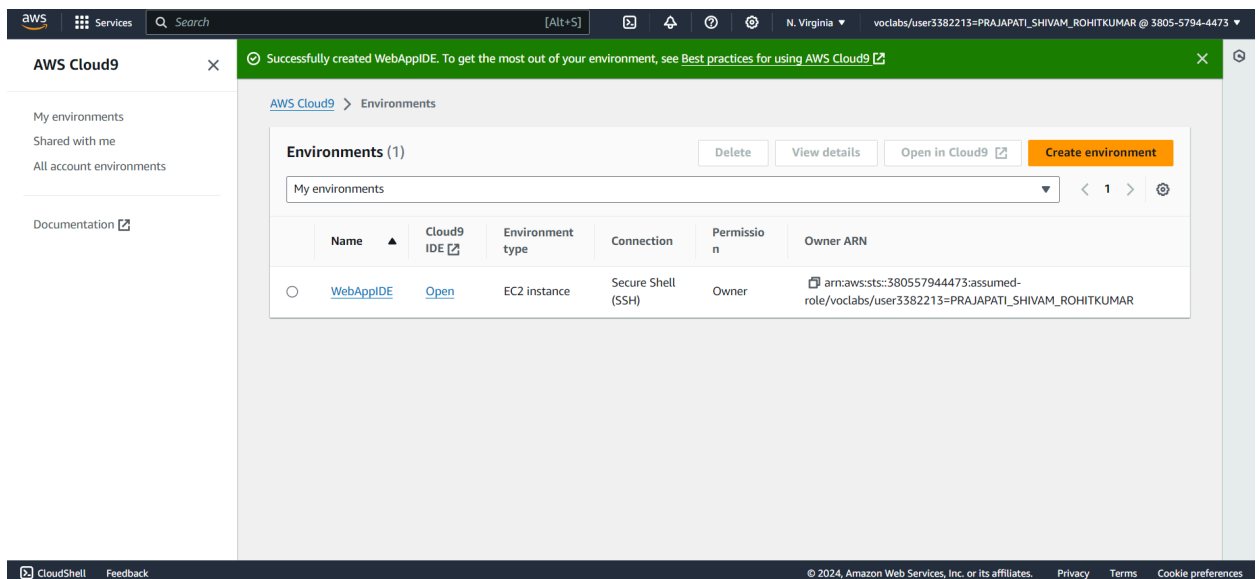




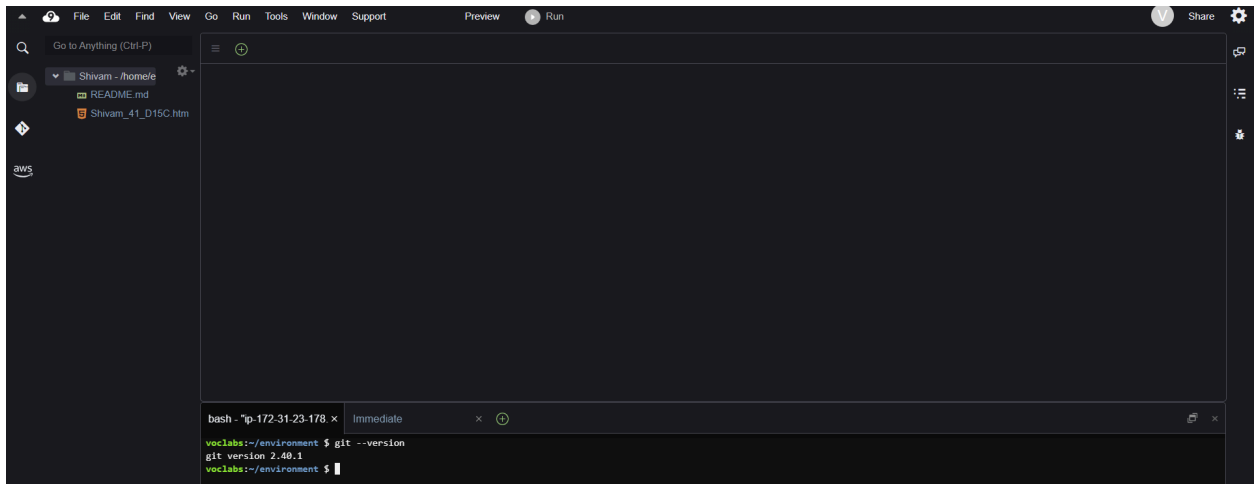
When we go to add user to a group, the AWS Academy account throws an error as we do not have the permissions to create a group. So we have to use our personal AWS account for this part.

### Step 3: Working on Cloud9 IDE

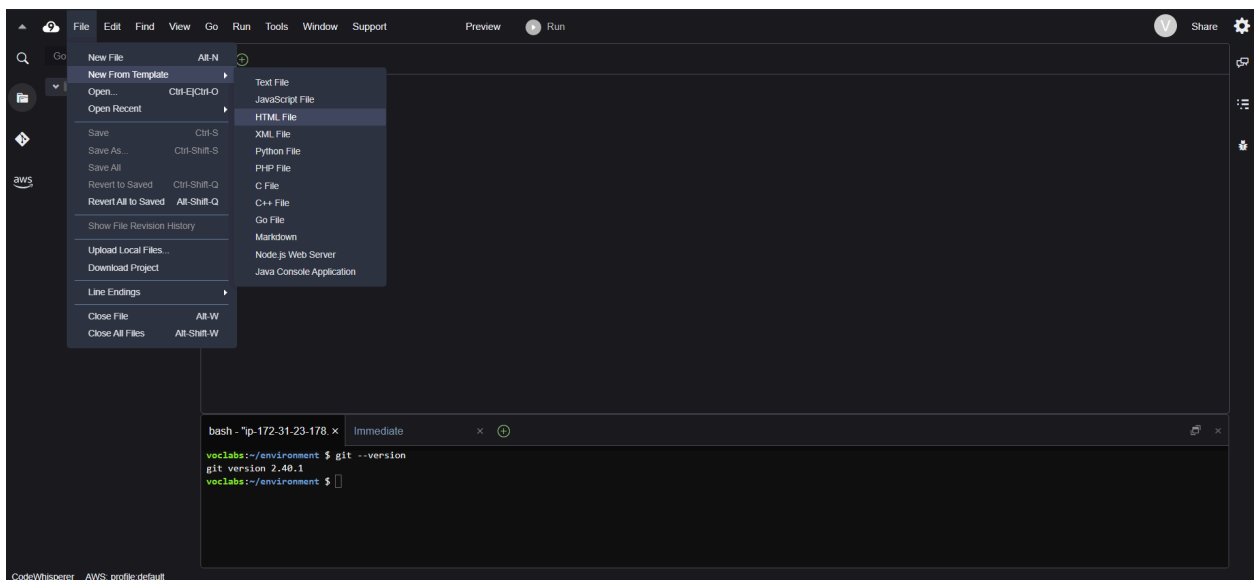
1) Go to Cloud9 services. Click on Open under Cloud9 IDE



2) This is the Cloud9 IDE interface. The major part of the screen is the coding IDE. There is a command console just below it. For example, the command `git --version` is run.

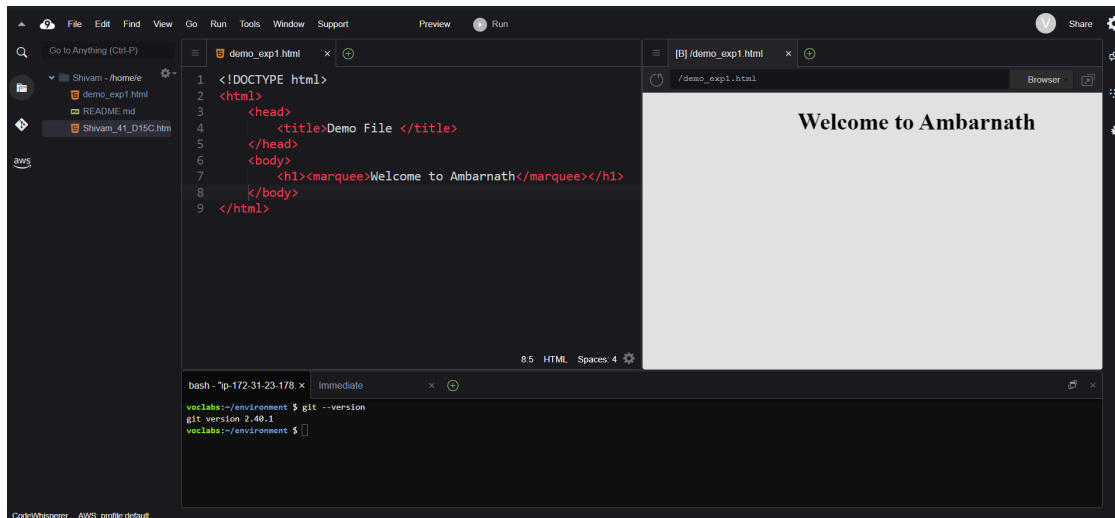


3) To add a file, click on file. For this experiment, we are to add an HTML file. So go to File → New From Template → HTML file. This gives a basic HTML template on the coding IDE

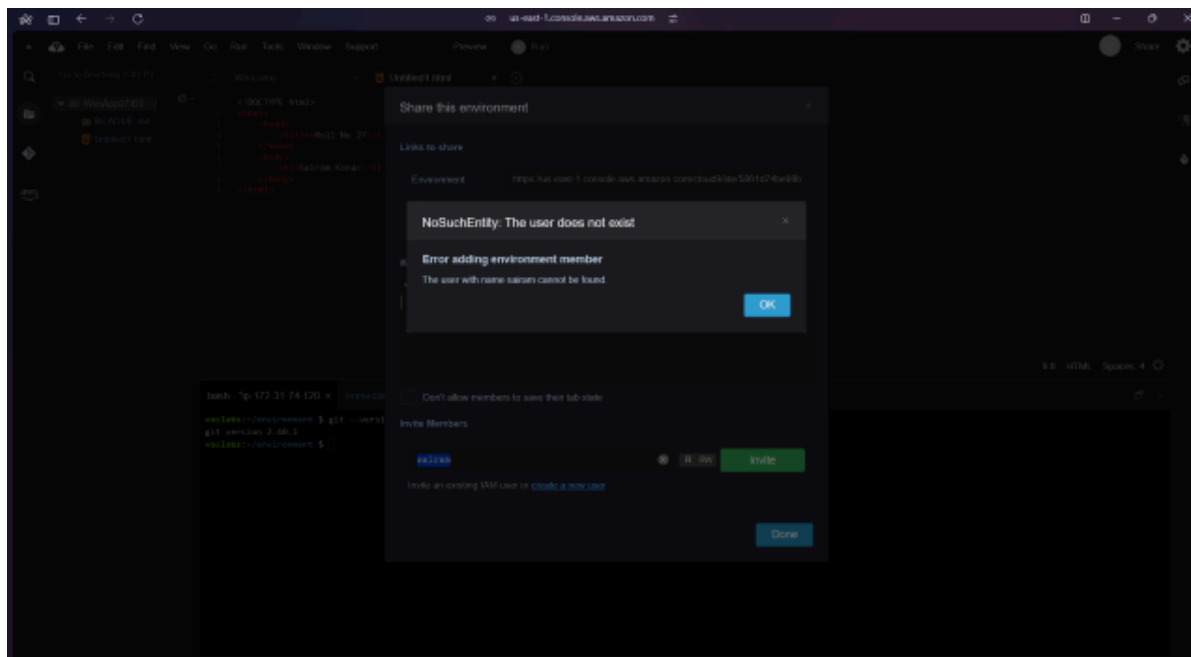




4) Make a basic website on the HTML template and save it.



After saving, on the toolbar towards the far right, click on Share. Then put the username that you had put during creating IAM user.



Here, it gives an error as Cloud9 was created on the academy account where creating an IAM group is not available, meanwhile on the personal account, the services of Cloud9 have been deprecated. So currently, it is not possible to integrate the cloud9 and IAM parts of the experiment.