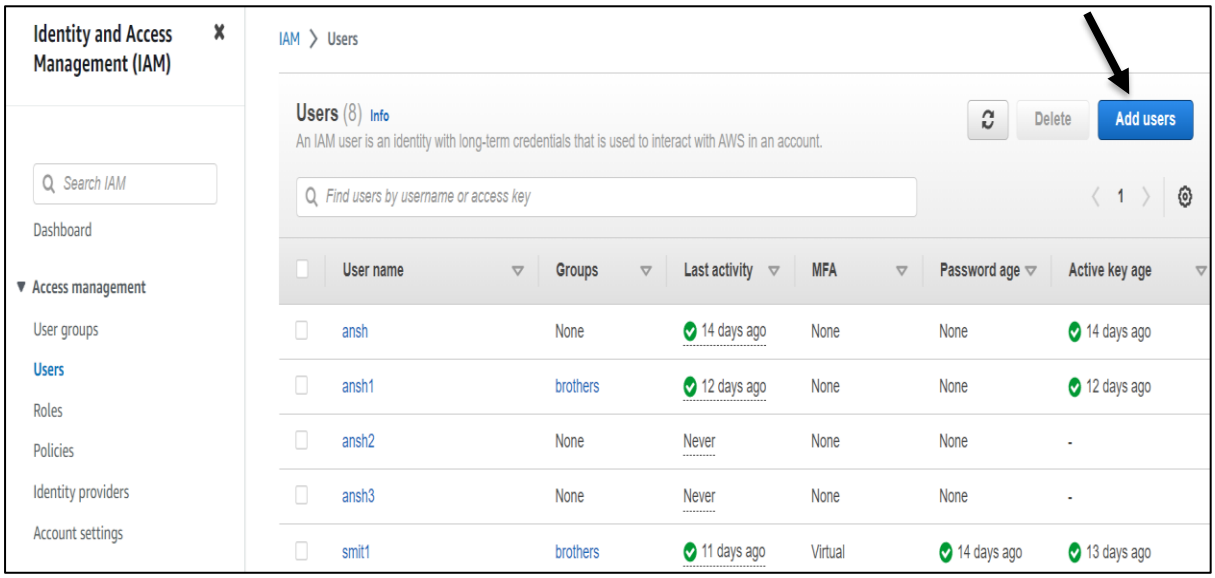
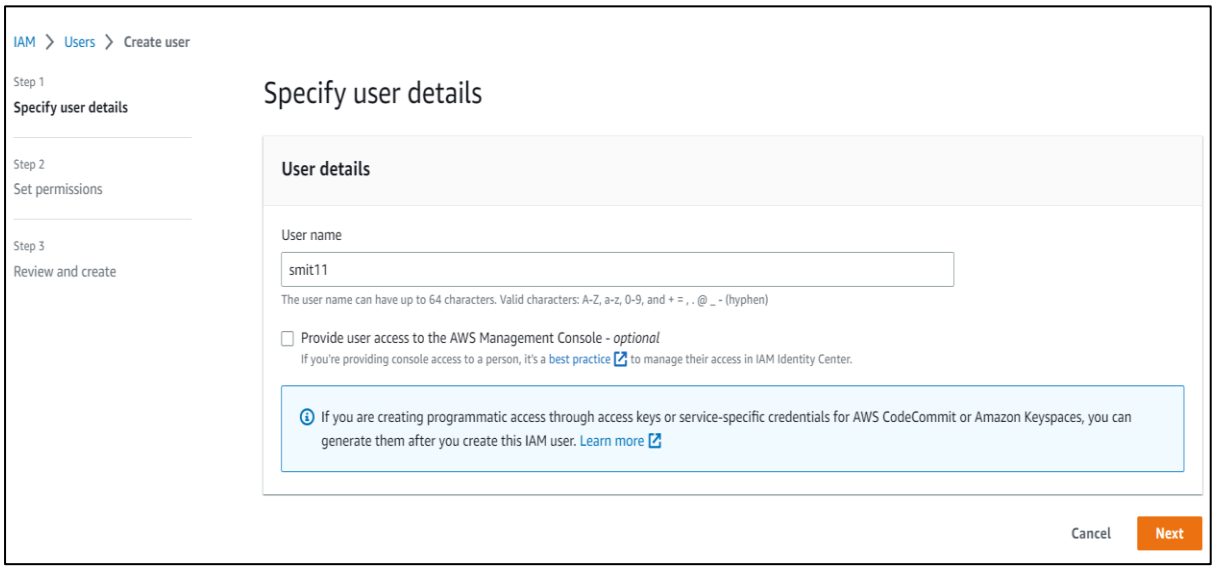
Add User by Programmatic Access (Access Key and Secret key)

- Login to your IAM console
- In the left navigation panel choose **Users** in **Access Management** section.
- Click on **Add Users**

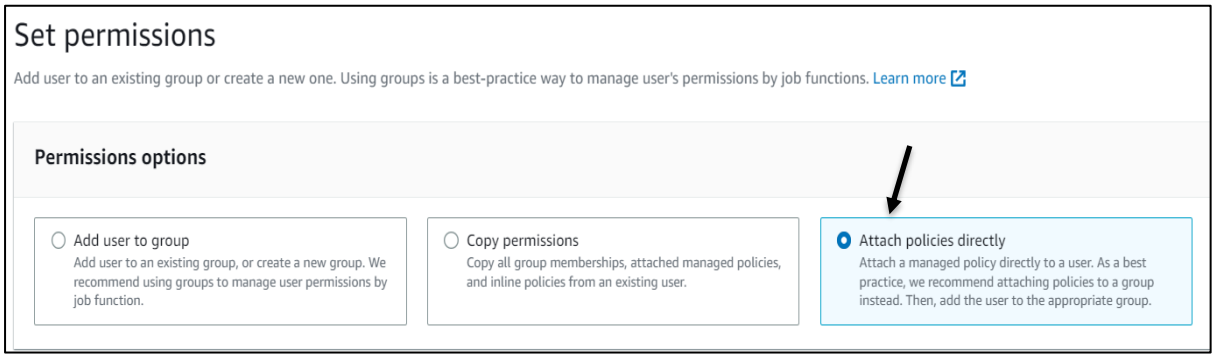


Step 1 :- Specify user details

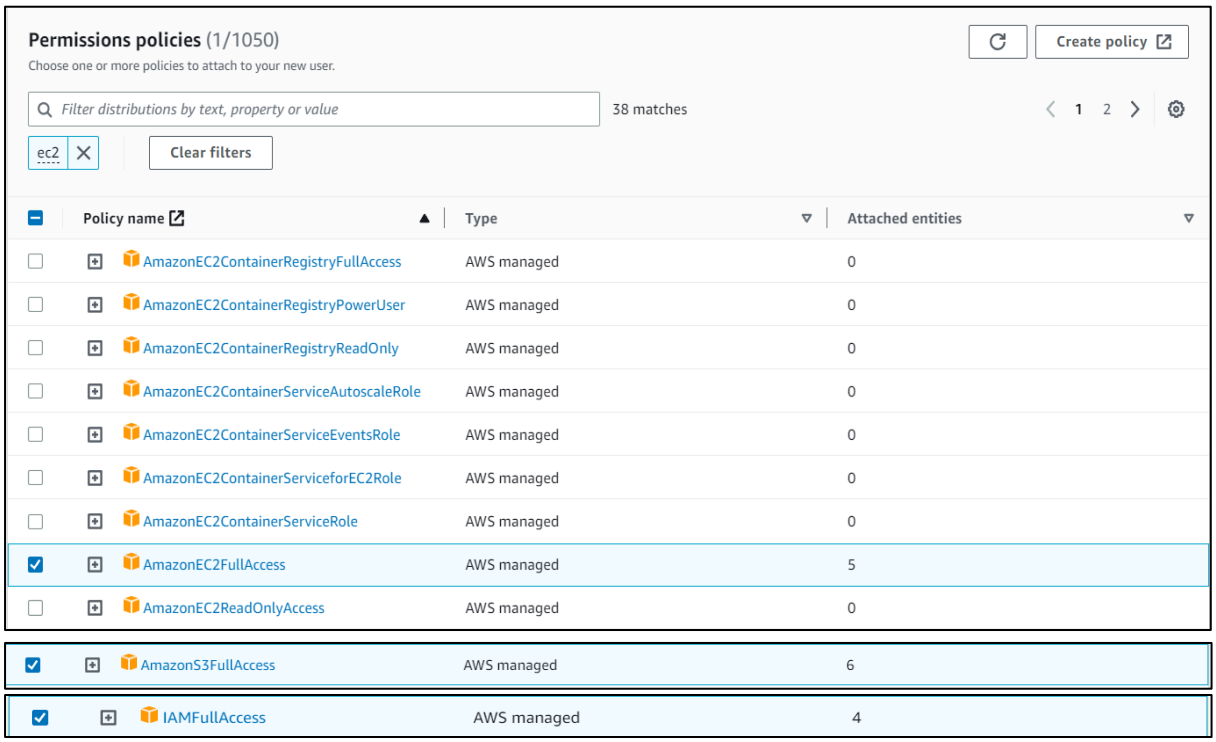


- Enter **User name**
- Do not enable **Provide user access to the AWS Management Console**
- Click on **Next**

Step 2 :- Set Permissions



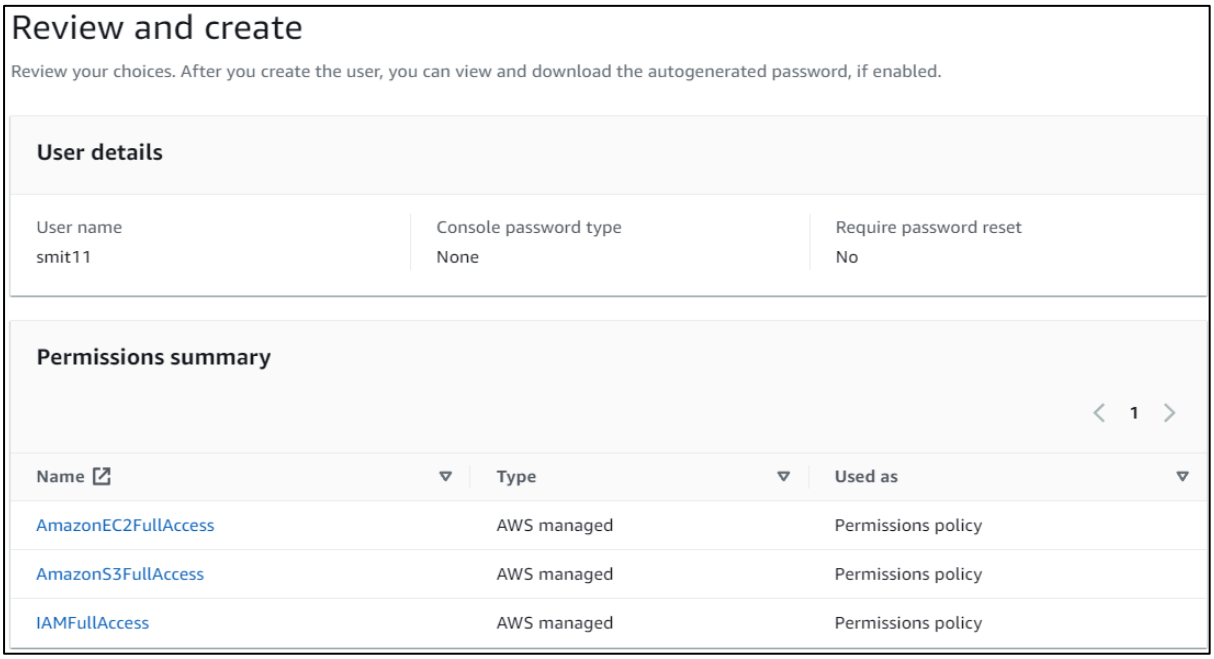
- In Permission Options select **Attach policies directly**



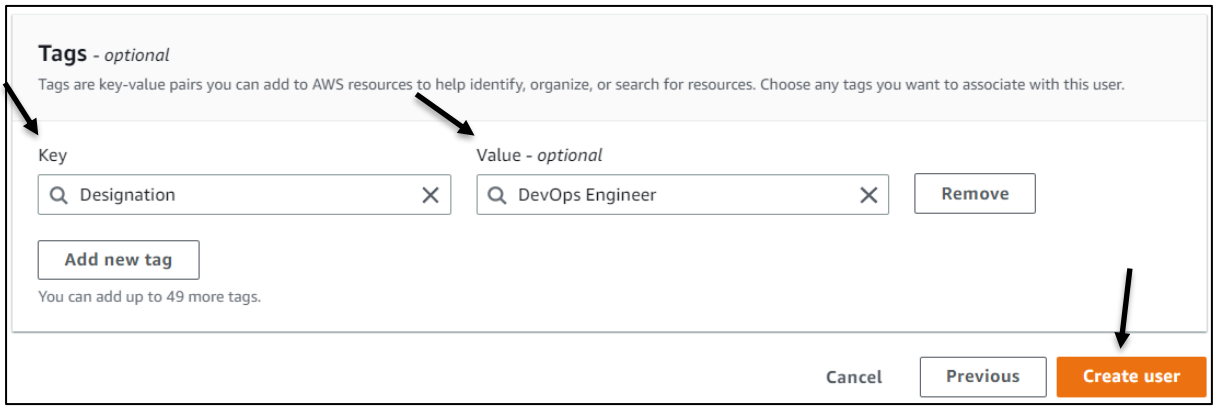
- In Permissions policies select **AmazonEC2FullAccess**, **Amazon S3FullAccess** and **IAMFullAccess**

- We can set **Permissions boundary** to control the maximum permissions for this user. Use this advanced feature used to delegate permission management to others.
- Click on **Next**

<u>Step 3</u> :- Review and create



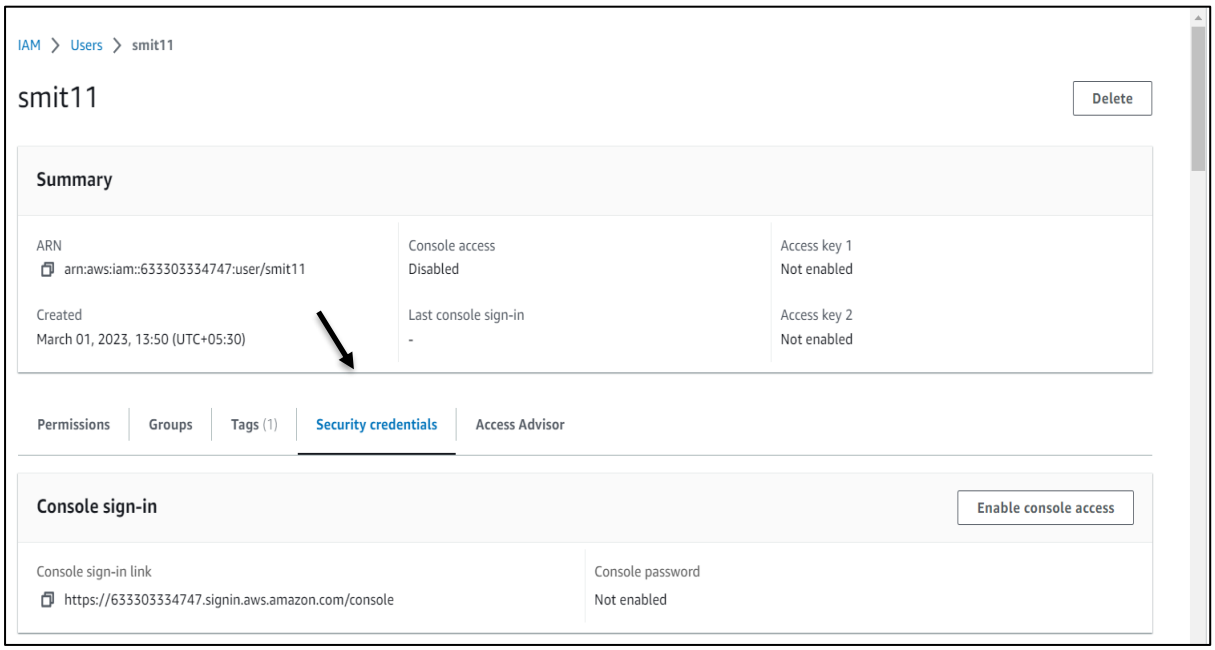
- We can add **Tags** to AWS resources to help identify, organize, or search for resources.



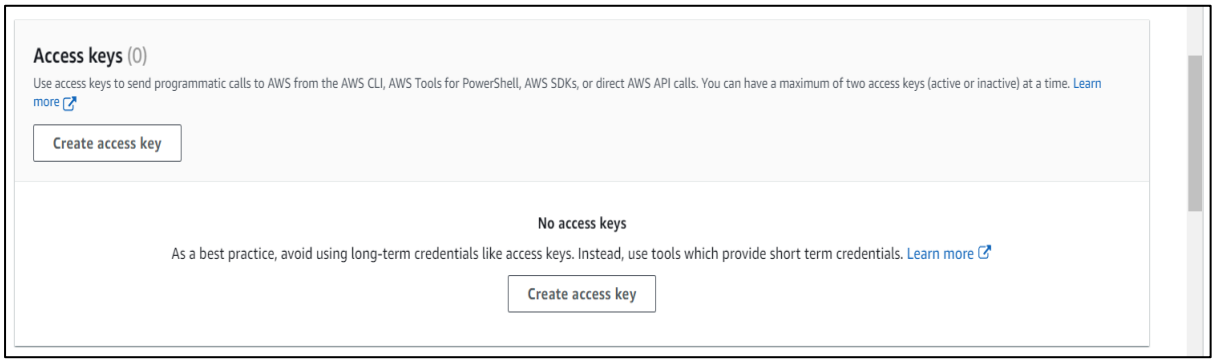
- Click on **Create user**
- So now user **"smit11"** has been created in users list by using Programmatic Access.

❖ To Create Access Keys

- Click on username **“smit11”** from **users list.**

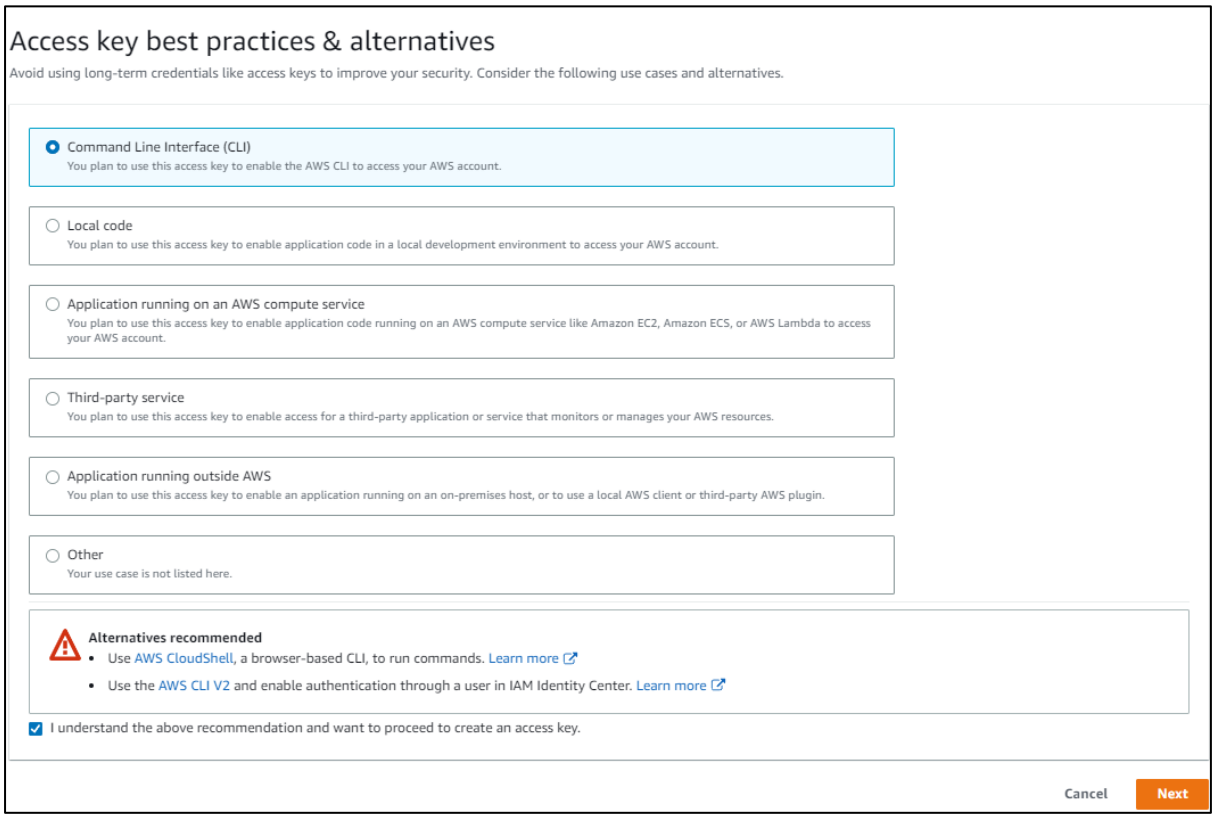


- Go to option **Security credentials** and scroll down to **Access keys** option.



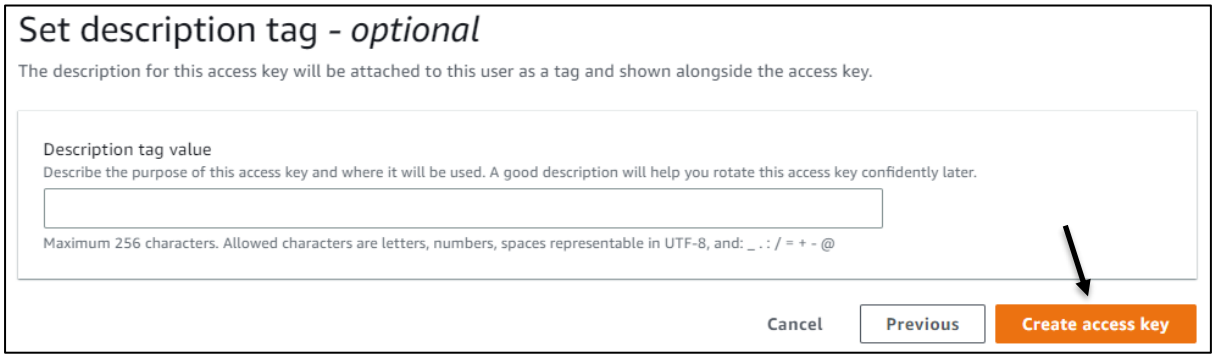
- Click on **Create access key**

<u>Step 1</u> :- Access key best practices & alternatives



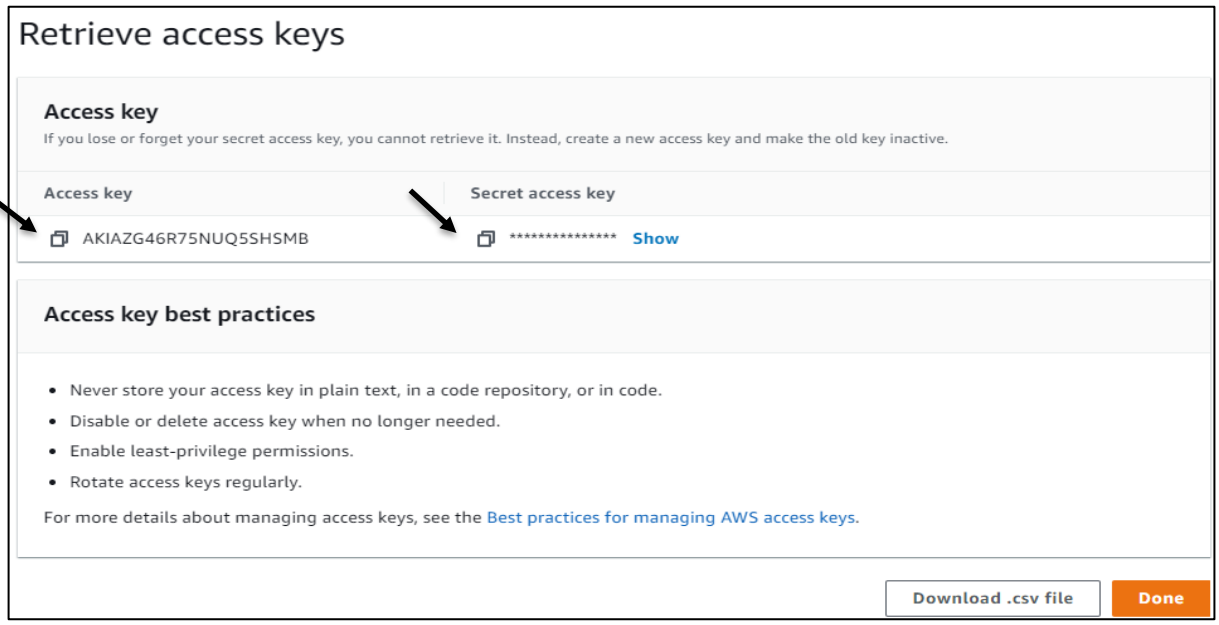
- Select Command Line Interface (CLI)
- Select box [ ] **I understand the above recommendation and want to proceed to create an access key.**
- Click on **Next**

<u>Step 2</u> :- Set description tag



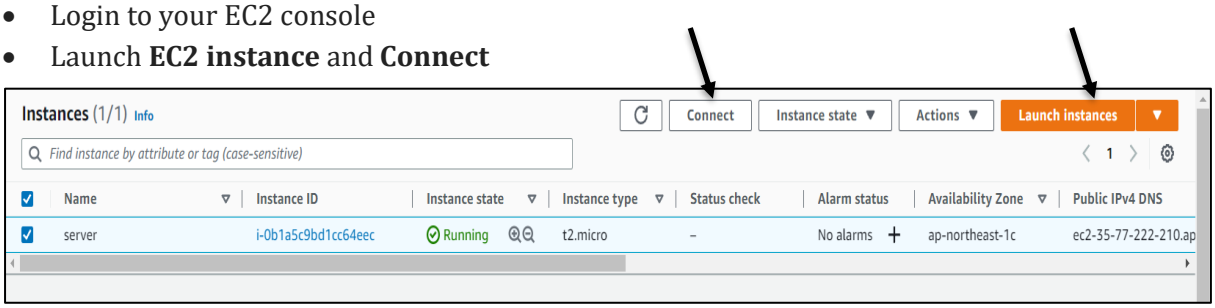
- Click on **Create access key**

Step 3 :- Retrieve access keys

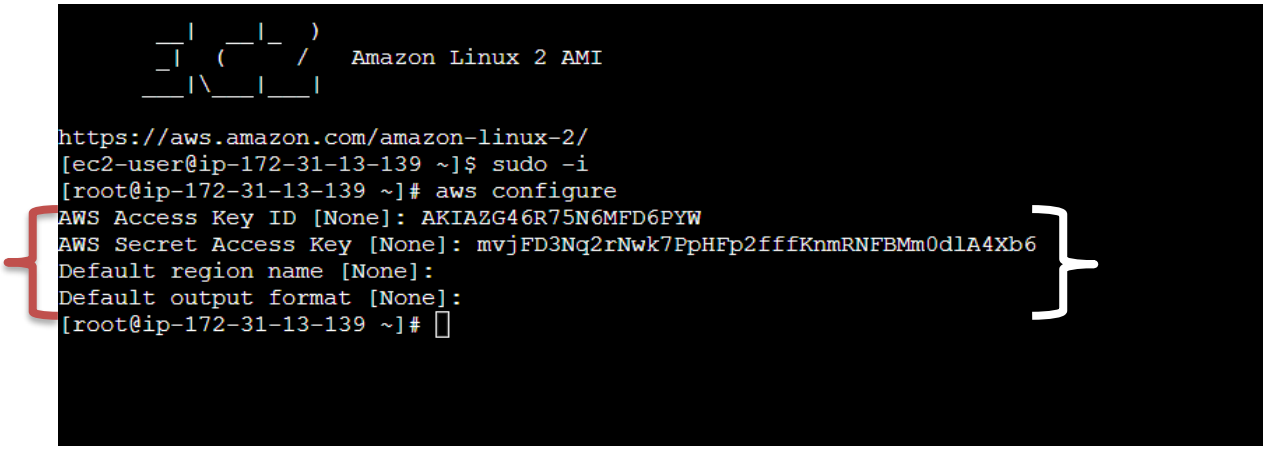


- So now we can copy **Access key** and **Secret Access** key in notepad or **Download .csv file**.

- **Now take access of user machine in instance by using Programmatic Access (Access and Secret Access Keys)**
  - Login to your EC2 console
  - Launch **EC2 instance** and **Connect**



  - Use command "**aws configure**" to take access in user machine and enter
    - AWS Access Key ID
    - AWS Secrets Access Key
    - Default region name
    - Default output format



- Now you have been accessed in user's machine by using Programmatic Access.
- And we can see the buckets and its contents because we have set permission (**attached policies of EC2, S3 and IAM services**).
    - By using **"aws s3 ls"** command , list buckets
    - By using **"aws s3 ls smitbucket11"** command, can see contents in bucket **'smitbucket11'**
- To add User by using terminal
    - **aws iam create-user –user-name username**