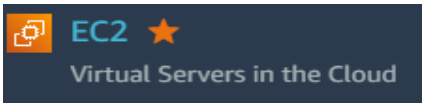
Assignment 1:

Create a VM with t2.micro instance template. Ensure the following:

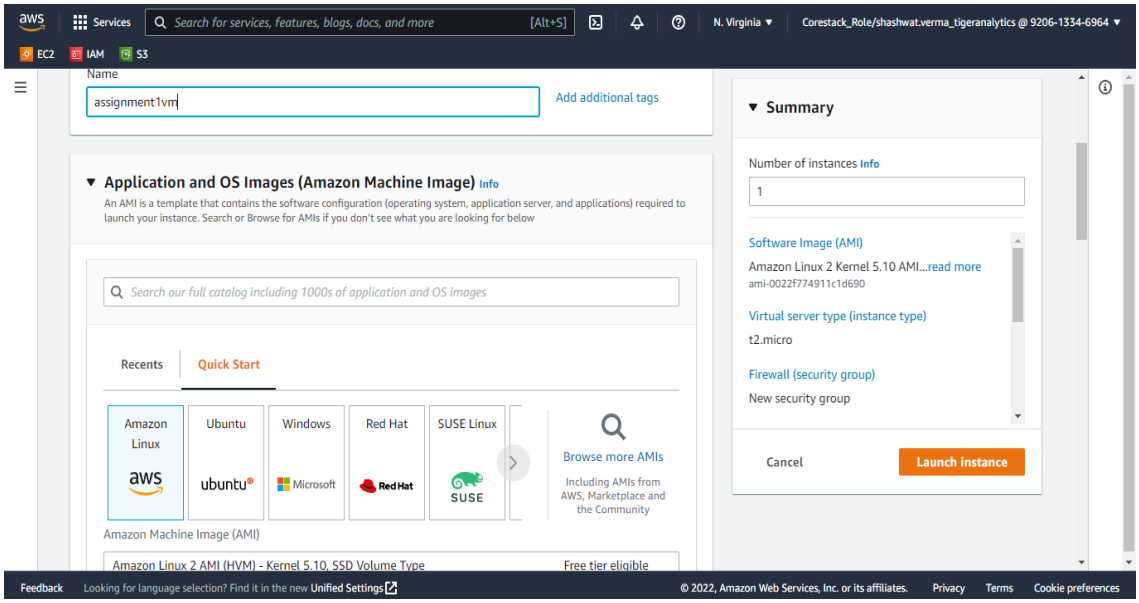
a. Recreate a new key
b. Convert the key to private key compatible for putty
c. Convert the key to private key compatible for Winscp
d. Access the machine using Putty and WinSCP and load data using WinSCP
e. Ensure you attach the Administrator role to the VM.

1. *Search "ec2" in* 

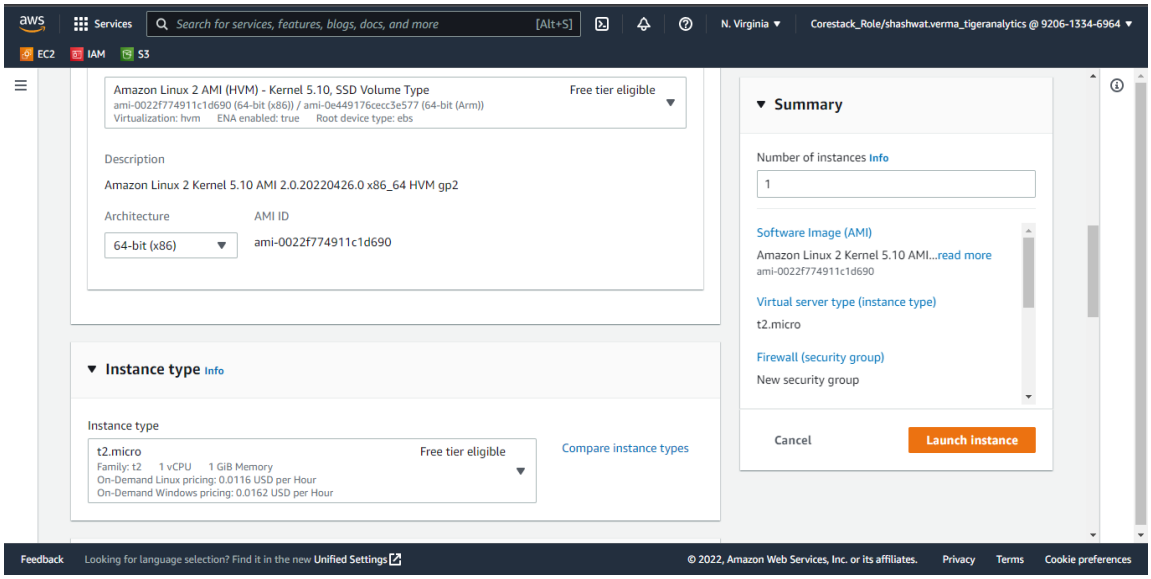
2. *Click on* 

3. *Click on* 

4. *Make the following selections:*

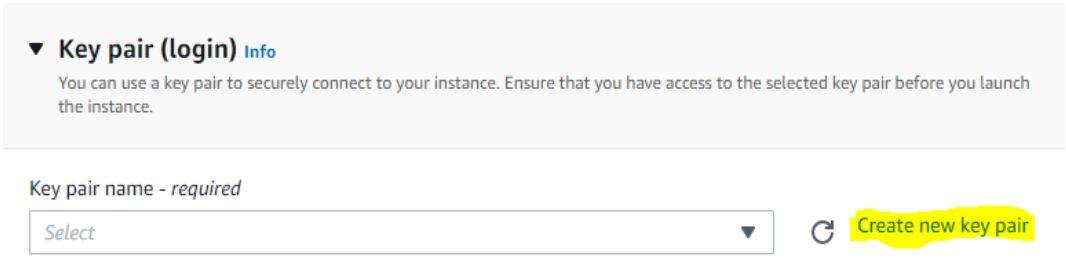


Selected Instance: “t2.micro”

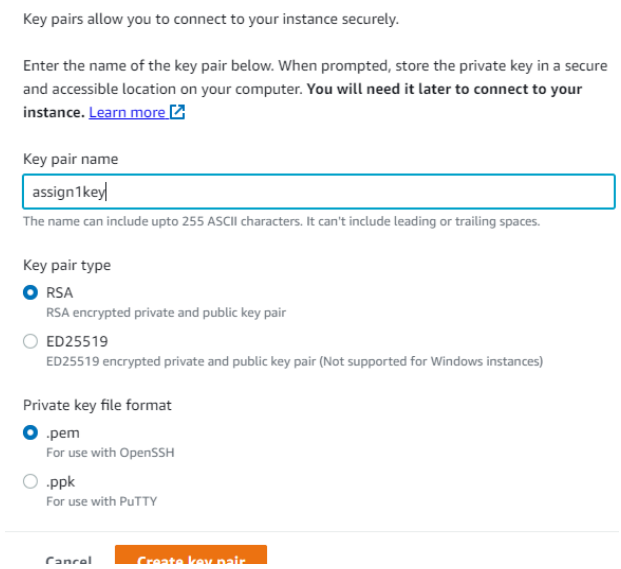


a. *Recreate a new key*

   1. *Click on “Create new key pair”, then name the key as shown:*



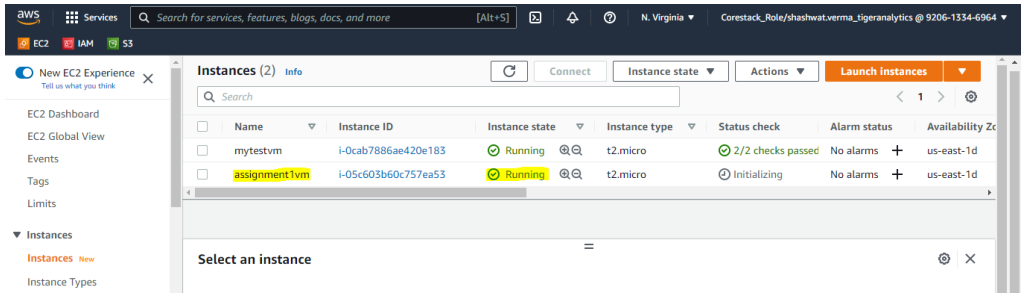
Enter details as:



2. *Once you hit “Create key pair” a key file with “.pem” extension gets downloaded. Preserve this file safely as it cannot be recreated afterwards.*

   Now hit “Launch Instance” (shown in Step 4 snip 2).

   Go to EC2>>Instances

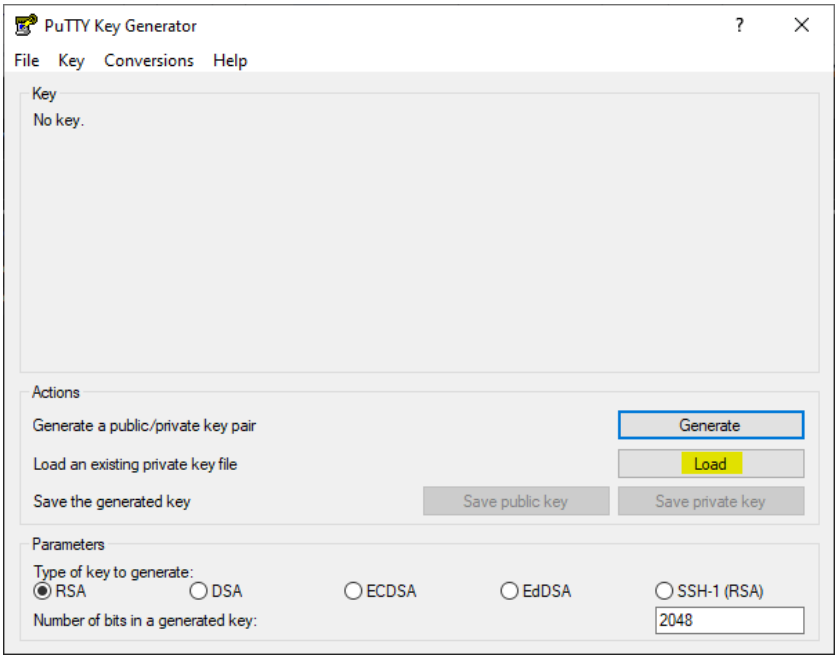


   We will find that the instance launched successfully and is in Running state.

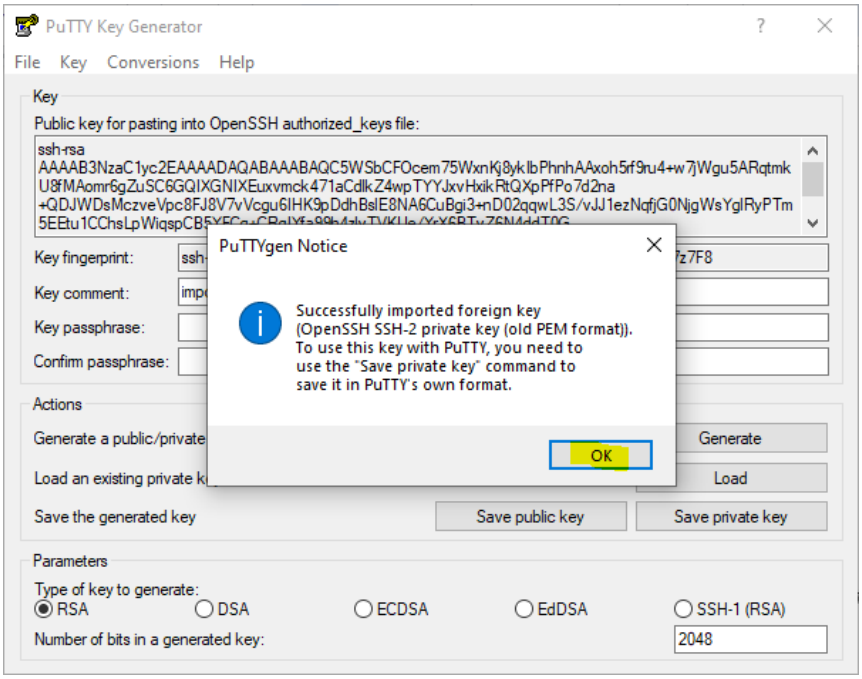
b. *Convert the key to private key compatible for putty*

   Stored the key downloaded in a new folder “AWS_Assignment1”.
   We used “PUTTYGEN” application to convert the pem key to ppk key

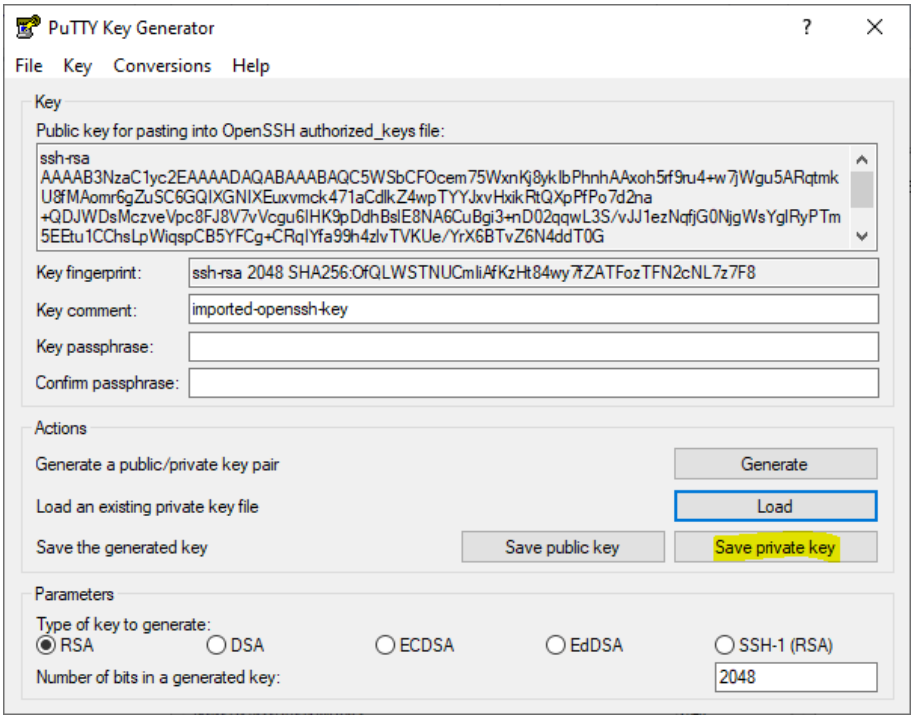
1. *Launch “PUTTYGEN”, then click on “Load”*



2. *Browse and select the downloaded key pair file. Please select “All Files (*,*)” format to find the .pem file then hit "Open”. Once “Successfully imported foreign key…” message appears hit “OK”*

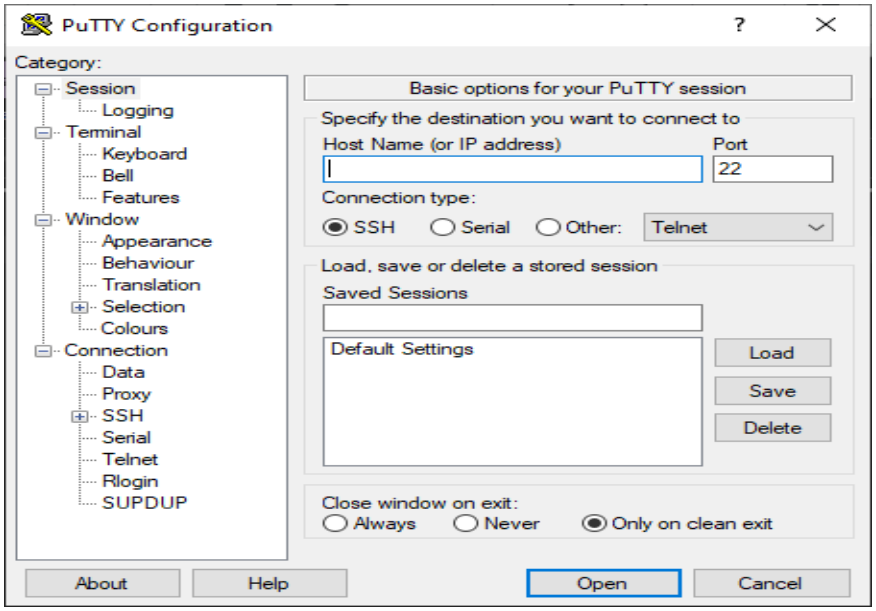


3. *Hit on “Save private key” and click on “OK” for the alert message, Assign a name to the ppk key generated.*

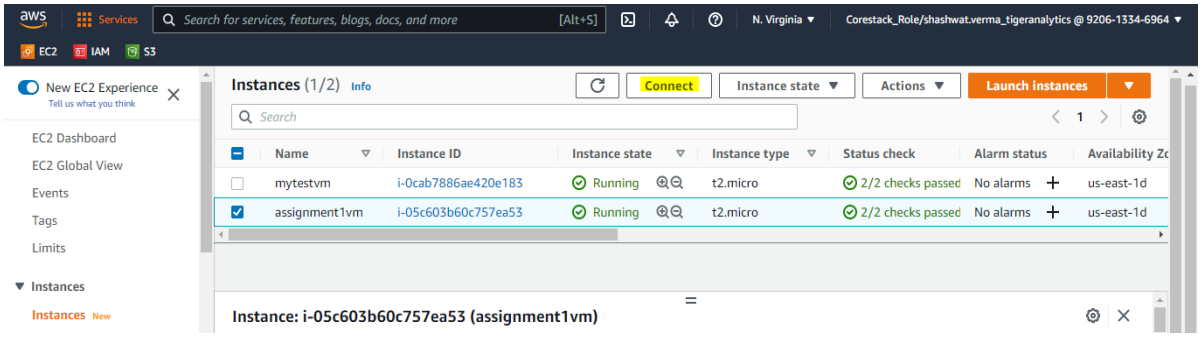


PuTTY:

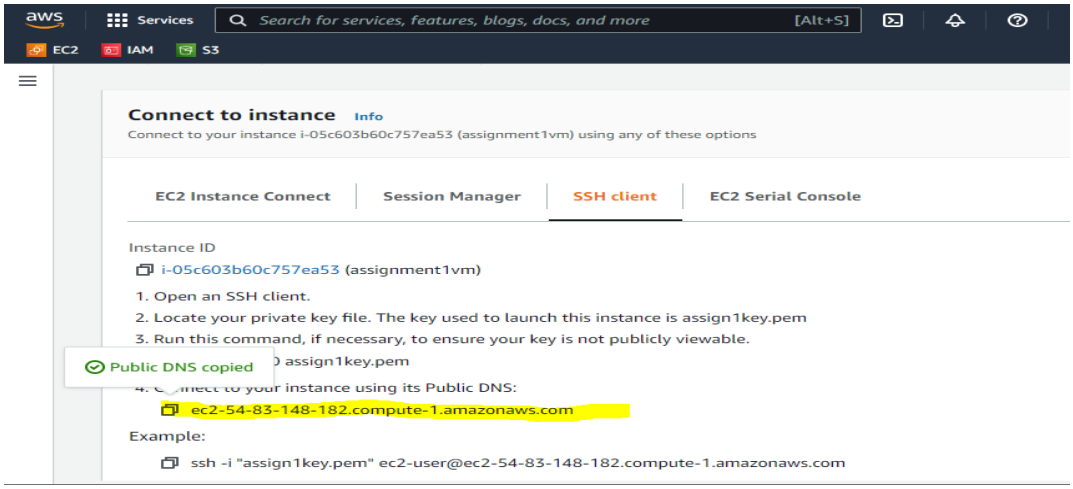
c&d. 1. Launch "PuTTY" application



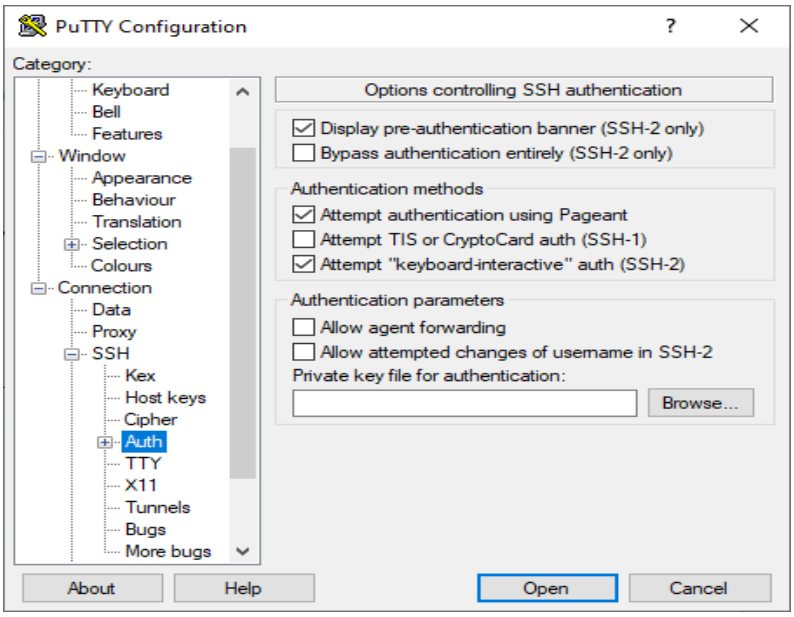
2. Copy Host Name from the VM we created by clicking on Connect >> SSH Client



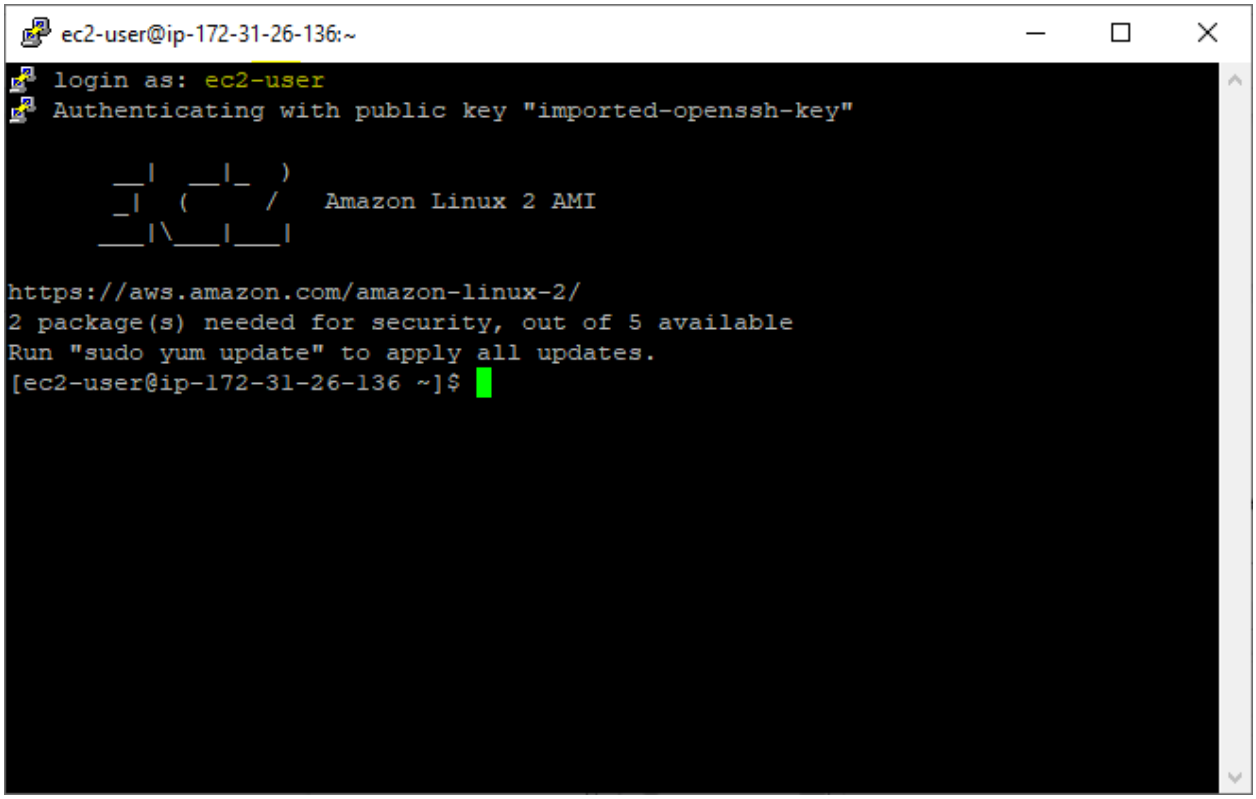
3. Copy Public DNS >> Paste this to PuTTY>> Host name



4. *Click on SSH >> Auth in PuTTY application, the browse for the ppk key created above, then hit “Open”.*

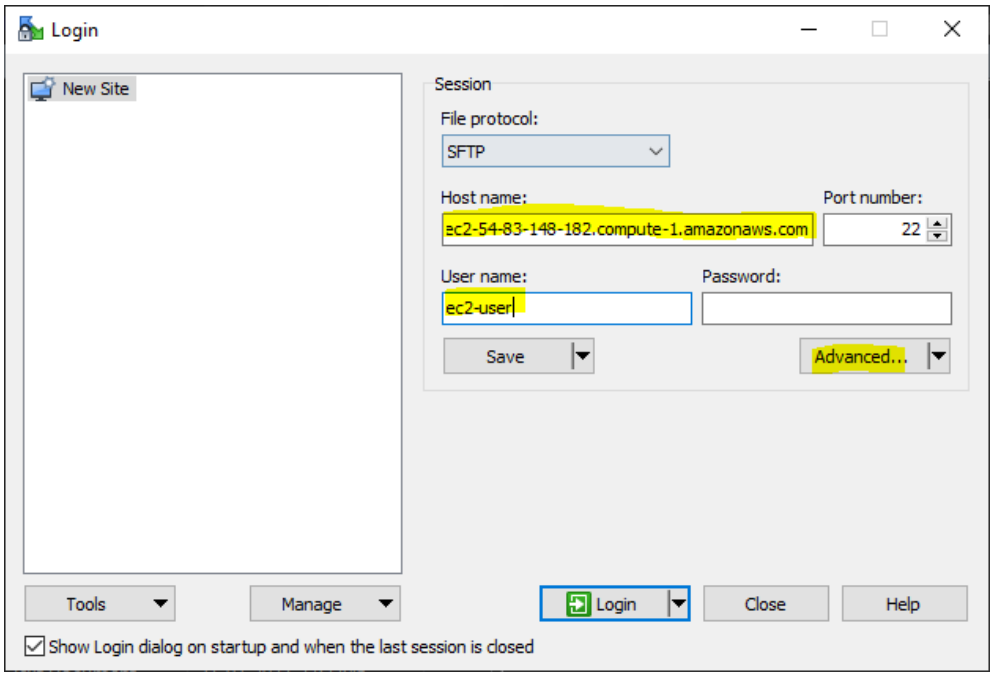


5. *“Accept” the PuTTY Security alert popup and login as “ec2-user” to launch VM as shown:*

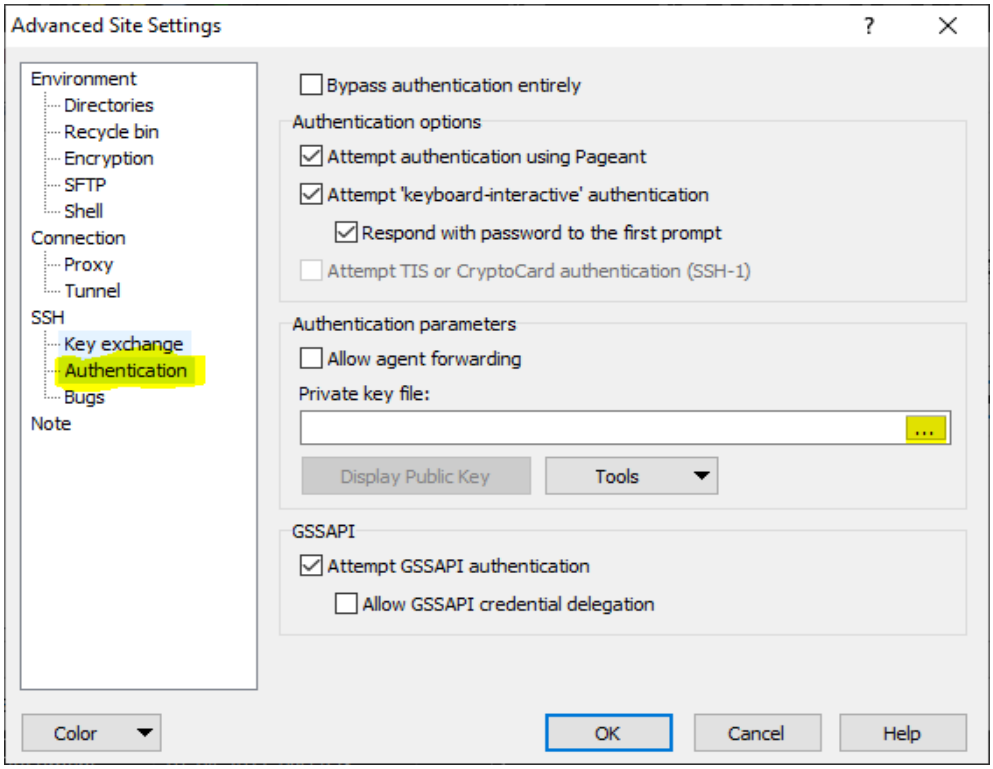


WinSCP:

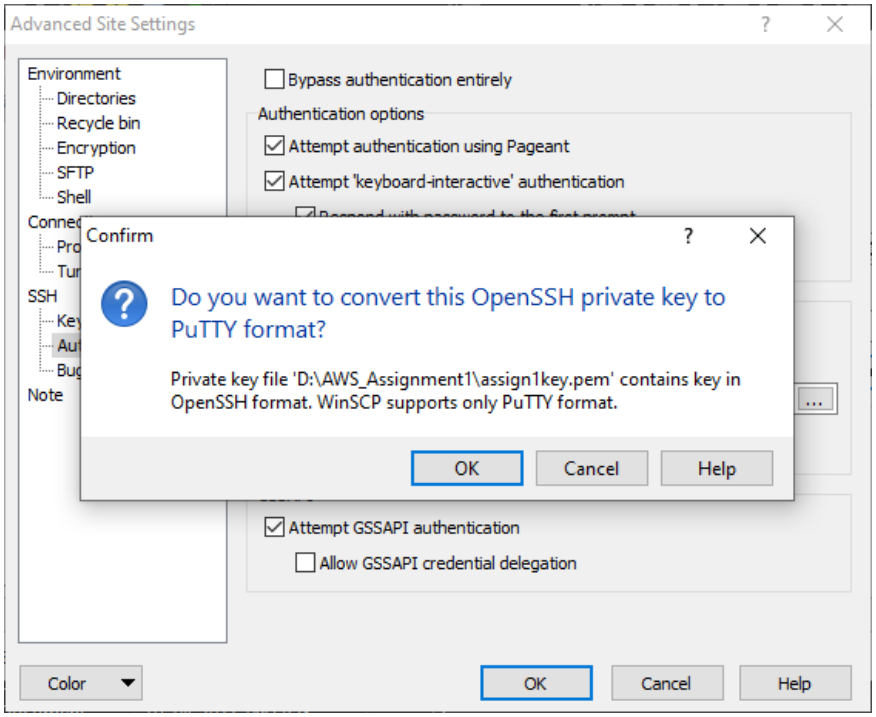
1. Launch "WinSCP" application >> Paste Host name copied in Step 3 above(Copy public DNS) and username "ec2-user". Hit on "Advanced.."



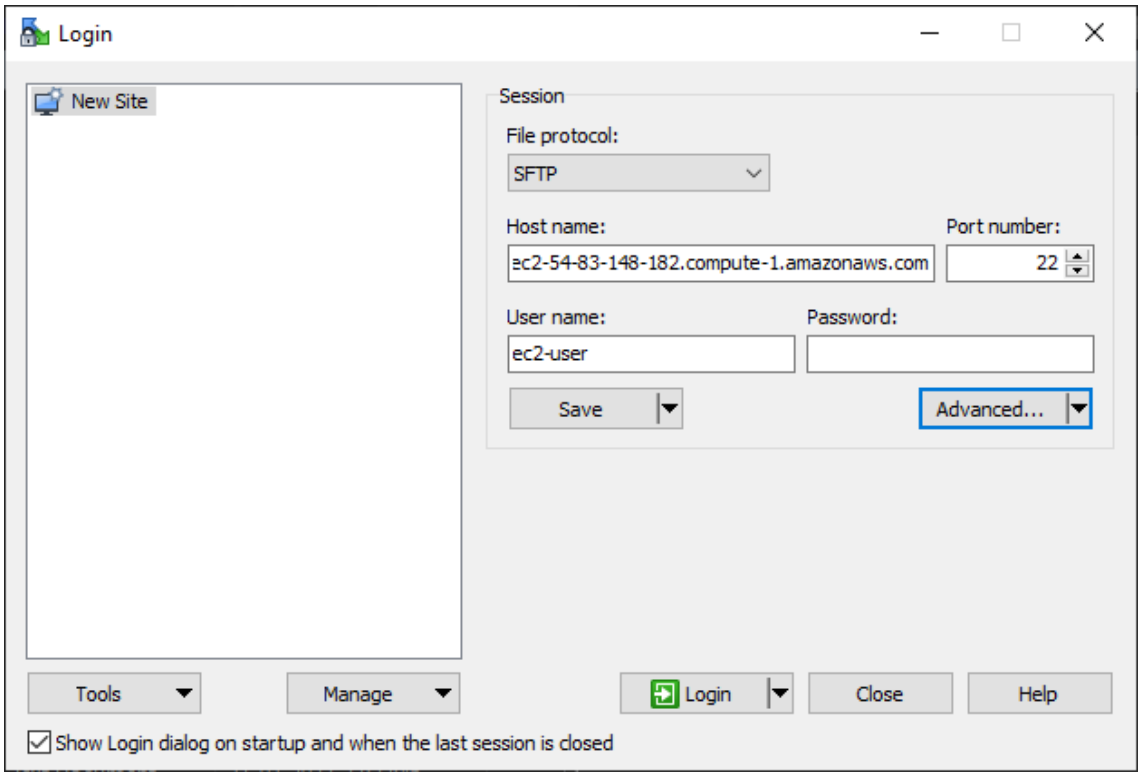
2. Go to SSH>>Authentication. Then browse & select .pem file we had downloaded



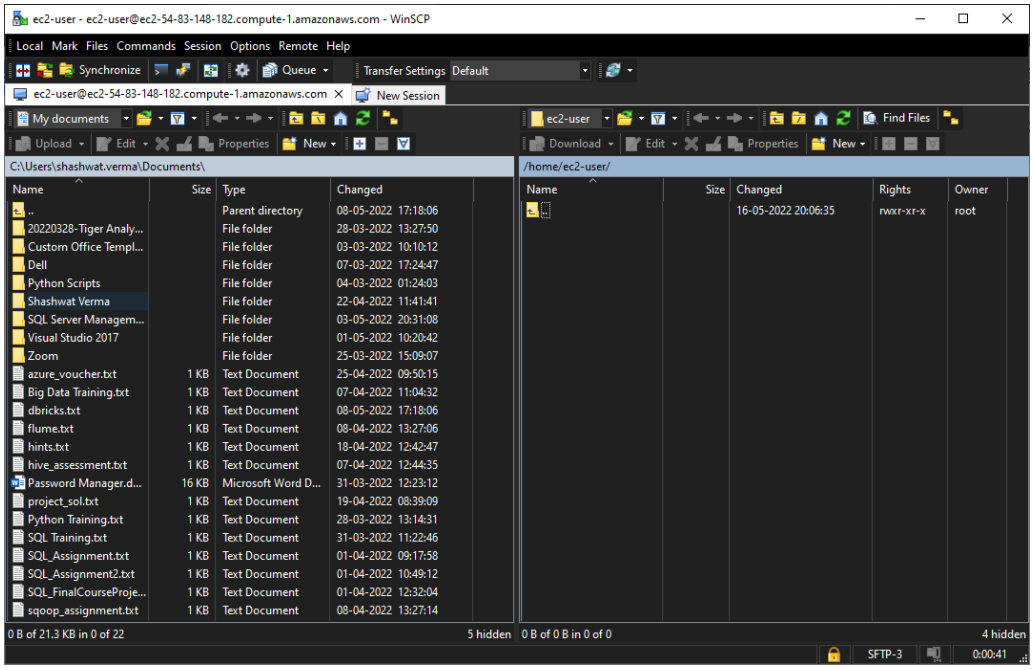
3. Click “OK” on the confirmation of key conversion to ppk as shown:



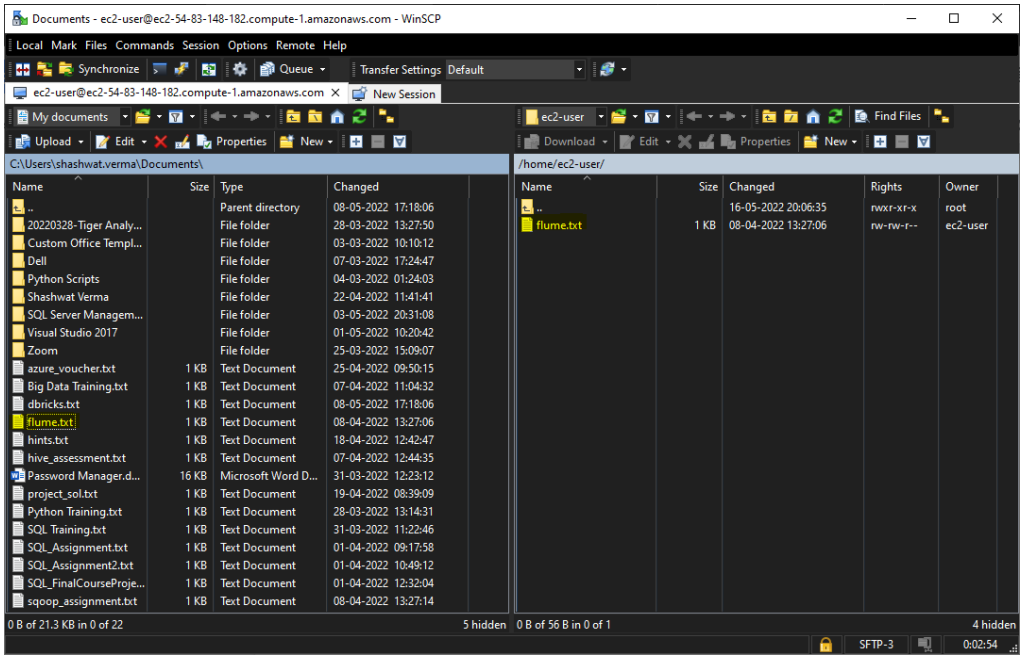
4. Hit “OK” and then hit “Login” once you are redirected to the Login window as shown:



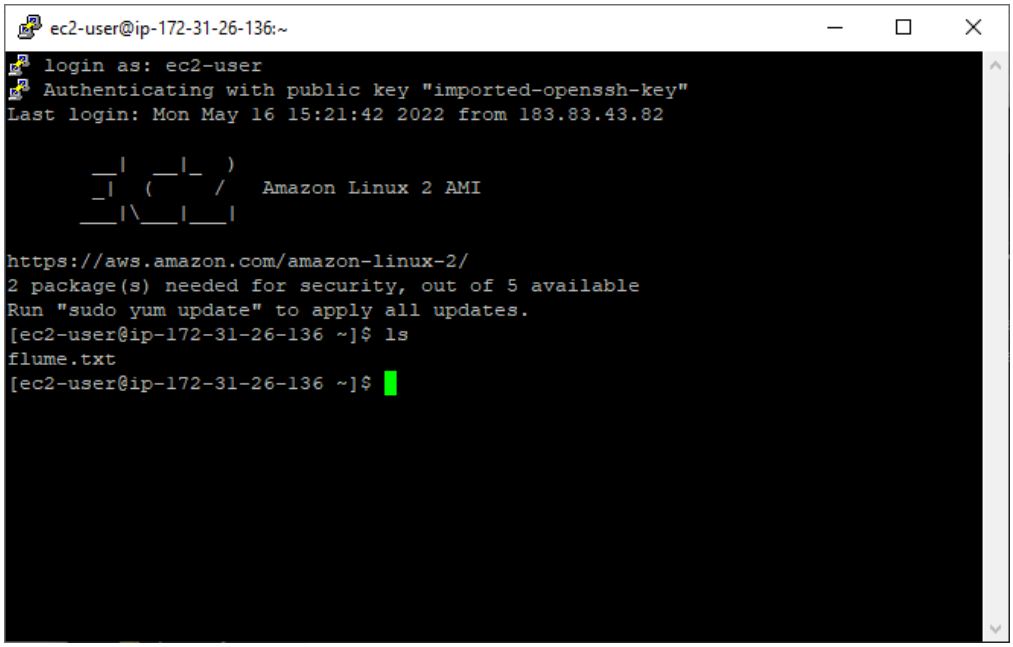
5. Hit “Yes” to alert and FTP connection is launched in WinSCP as shown:



6. Drag and drop a file from local to VM via WinSCP as shown:



Confirm that above operation was successful in PuTTY by giving "ls" command as shown:

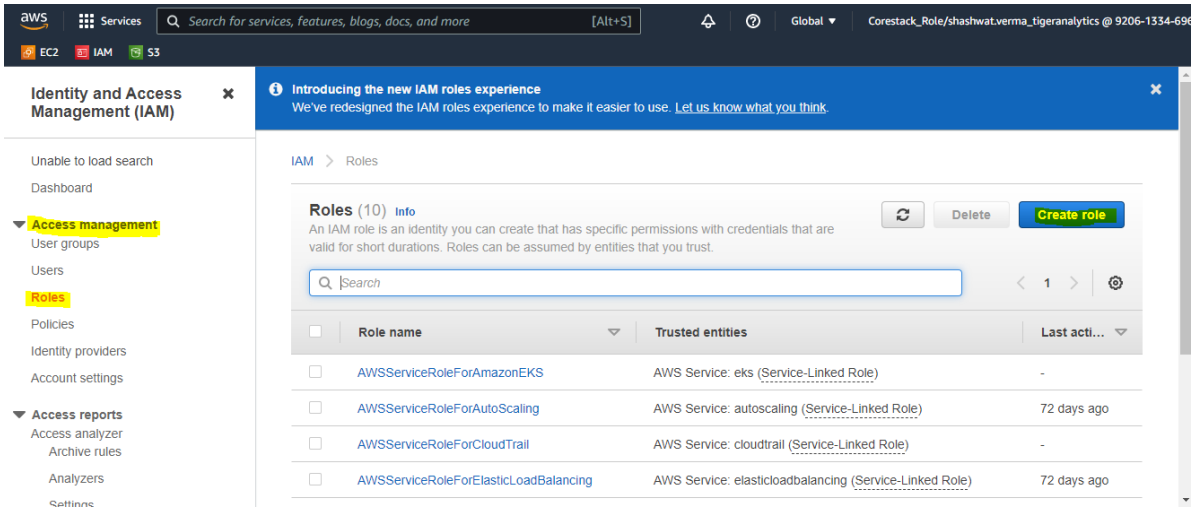


e. Attach the Administrator role to the VM

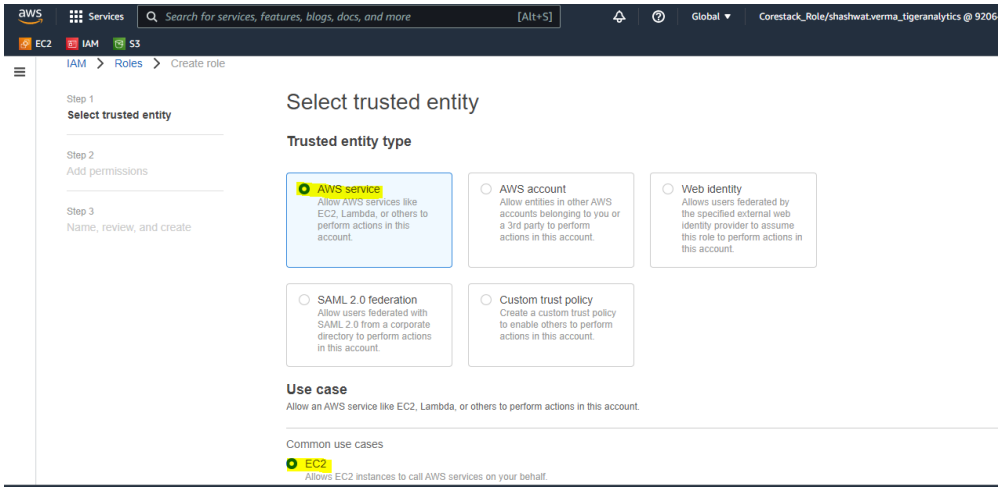
1. *Search "IAM" in* 

2. *Click on* 

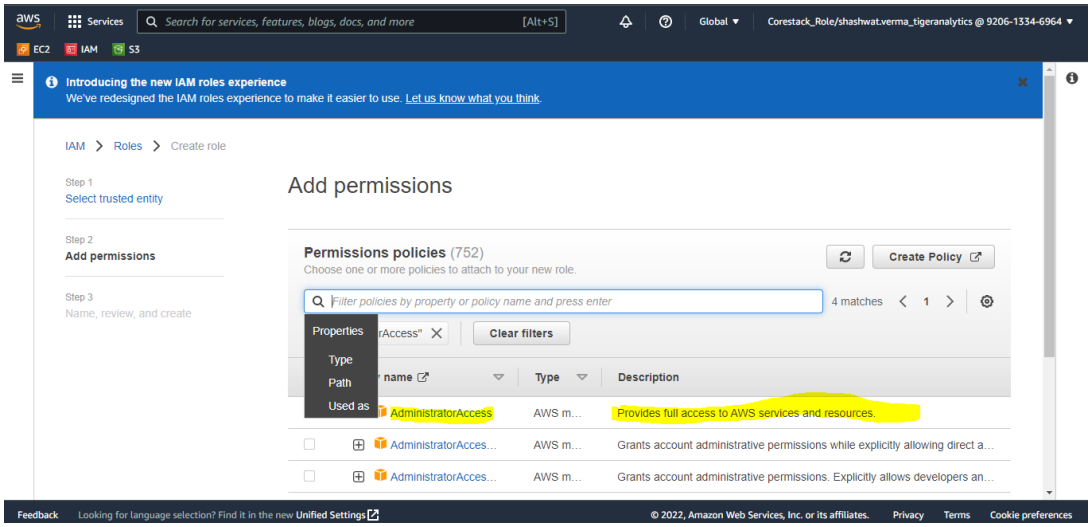
3. *Click on Access Management>>Roles, then hit "Create Role" as shown:*



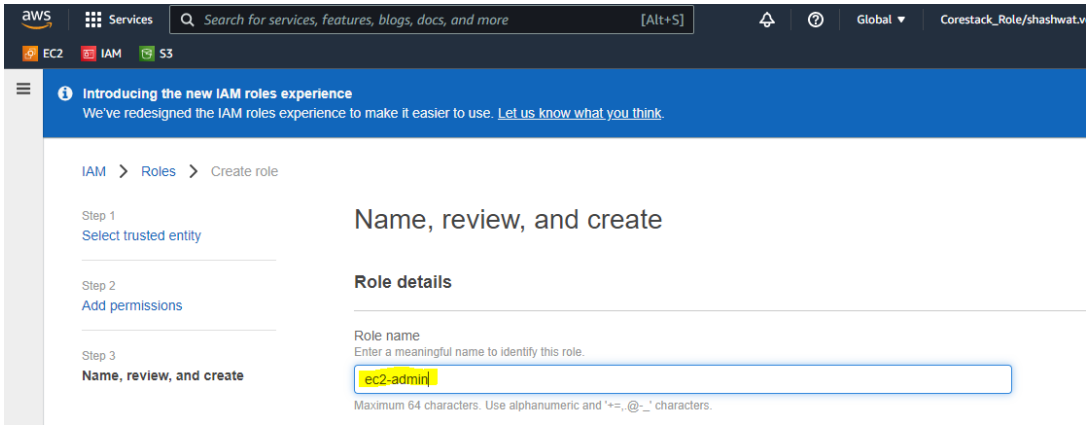
4. *Select “EC2”. Hit “Next”:*

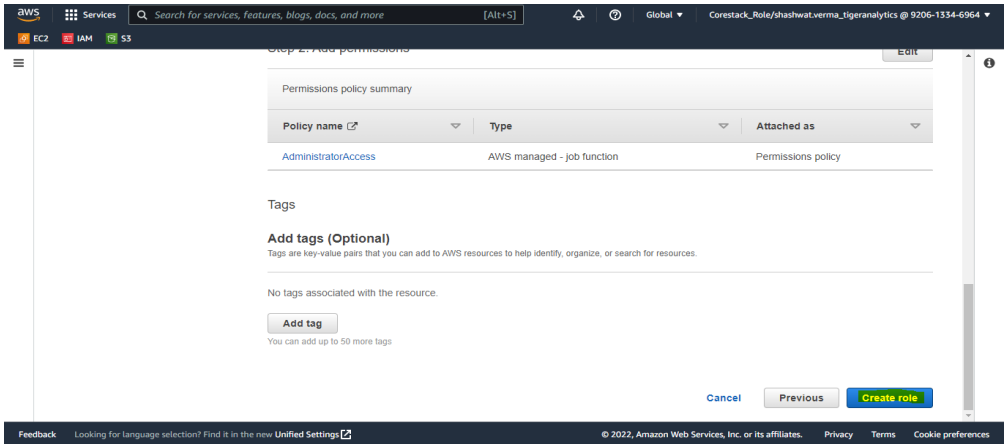


5. *Search “AdministratorAccess” in Permission Policies and check the one with “Provides full access to AWS services and resources” description then hit “Next”:*

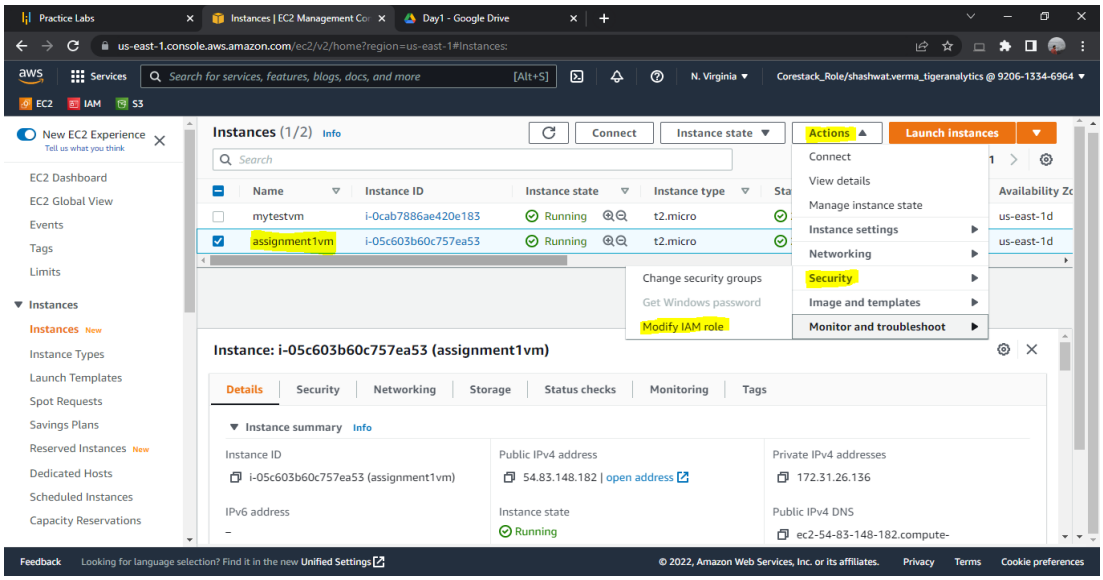


6. *Enter name of role and hit “Create role” as shown in below snips:*

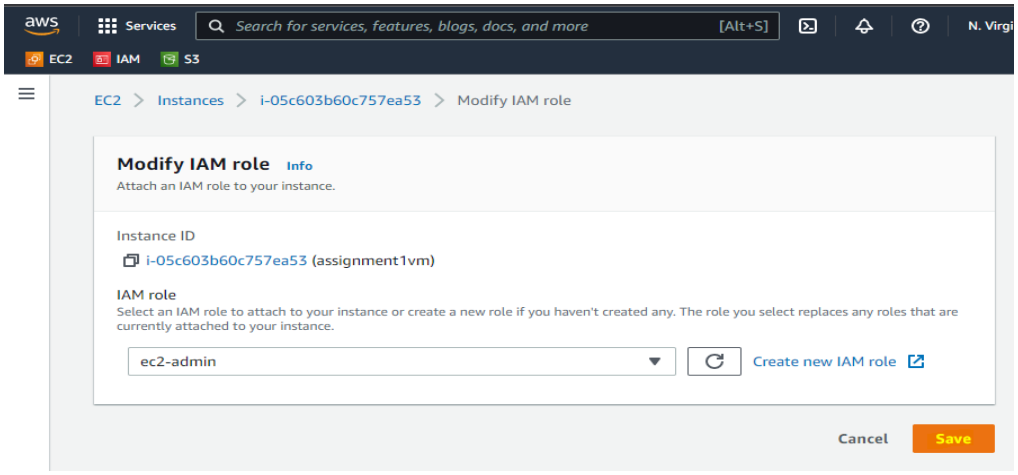




7. *Once role is successfully created go to EC2>>Instances, then select the VM created and hit Actions>>Security>>Modify IAM role:*



8. *Choose the role created above from the drop down and hit on save as shown:*



Role attachment successful as shown in the figure below: