Name	Sneha Reddy
Enrolment Number	A704052190
Experiment Number	5
Batch	1

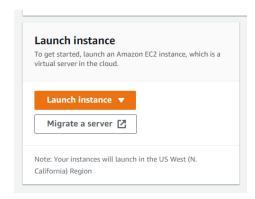
## **AIM OF THE EXPERIMENT:** a) Create an EC2 instance.

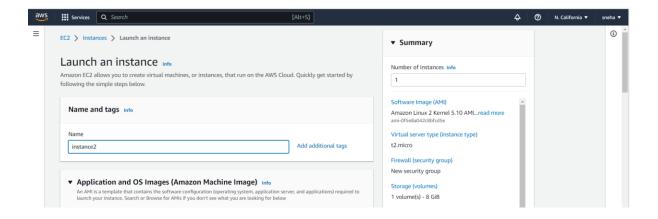
- b) Demonstrate the working of static and dynamic website through EC2.
- c) Shift files from S3 to EC2.
- d) Shift files from EC2 to S3.

#### Create an EC2 instance

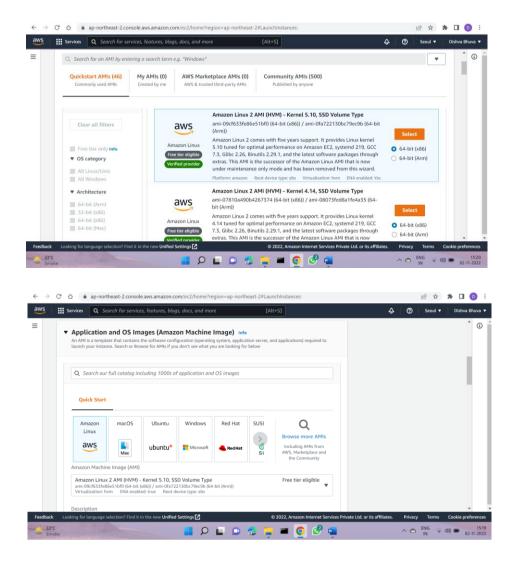
## Type EC2 in console

#### Click on Launch Instance.



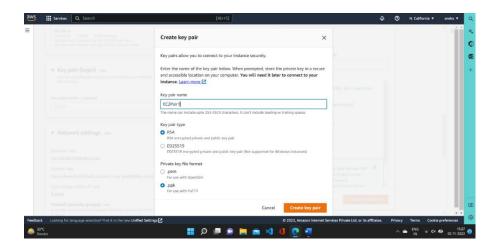


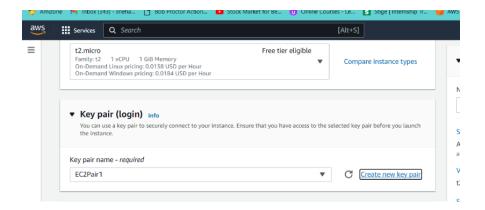
**Choose an Amazon Machine Image (AMI)**, find an Amazon Linux 2 AMI at the top of the list and choose **Select**.



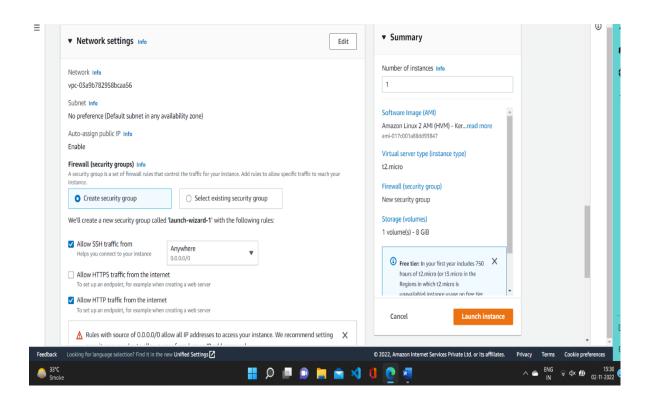
# Step 2:Create Key Pair.

While creating key pair keep mind that you choose Rsa key pair ppk file format





## In Network Setting make sure you allow Http traffic from the internet

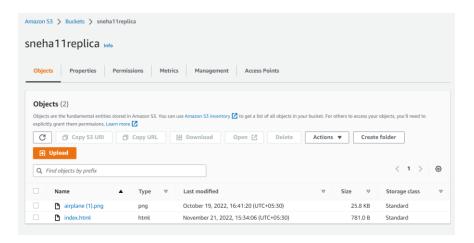




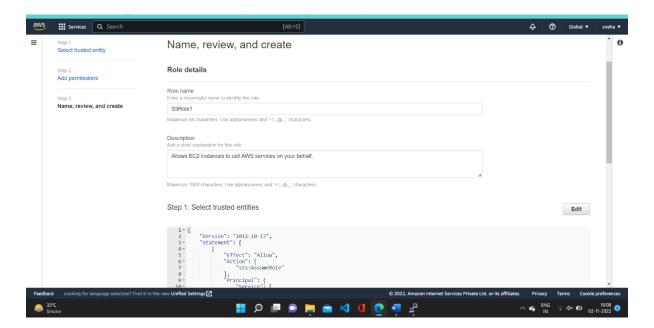
## Demonstrate the working of static and dynamic website through EC2

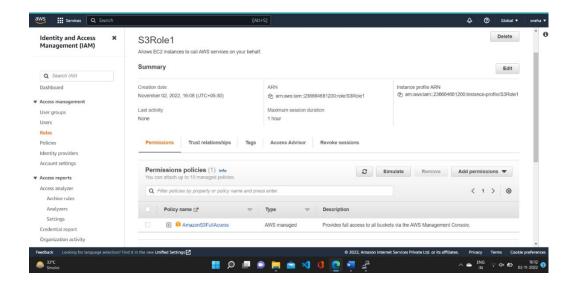
# **Static Website**

1. Upload website's files and folders into S3 bucket.

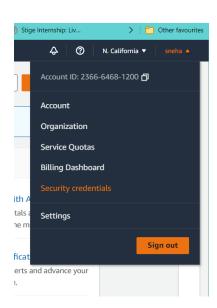


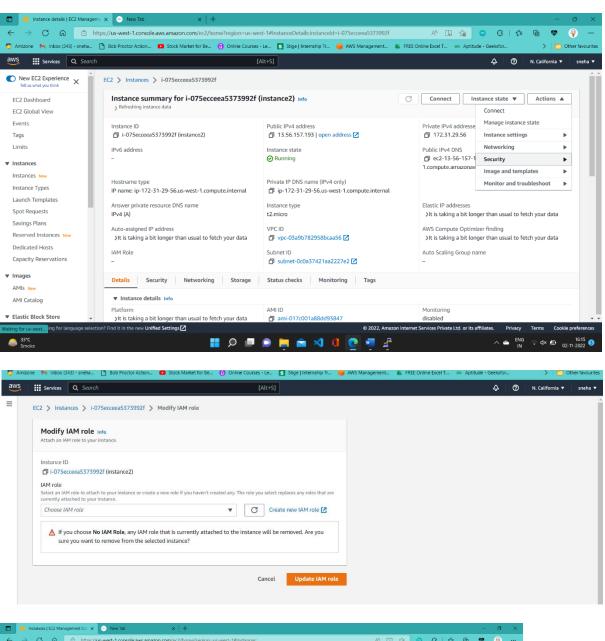
2. Create IAM Role.

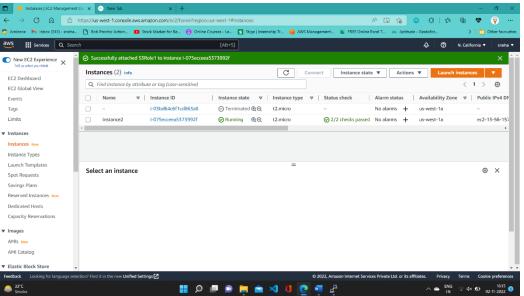




3. Attach IAM role to EC2 instance. Select the EC2 instance and go to Actions -> Security -> Modify IAM Role. Select the IAM Role and click on Update IAM Role.





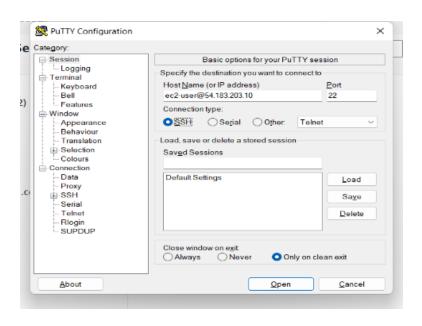


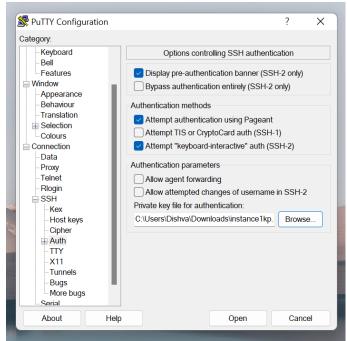
# **To Connect Putty**

Now, you want to connect to EC2 by using Putty. Copy public IPv4 address of EC2 instance.

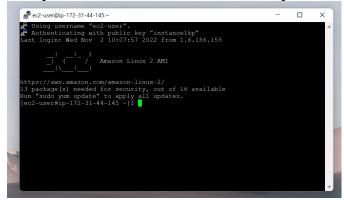
Open Putty and start a new remote session and enter the host name as "ec2-user@<IPv4 address>"

Click on SSH. Click on Auth and then Credentials. Check Use private key and browse location of key. Click OK.





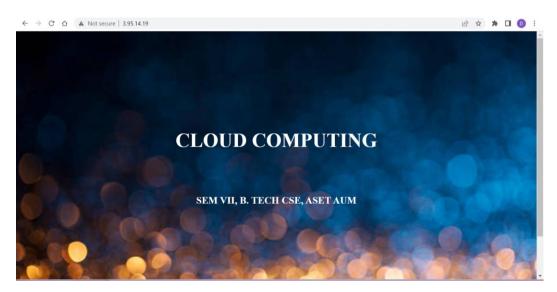
4. Now you are connected to EC2 successfully



## Perform command

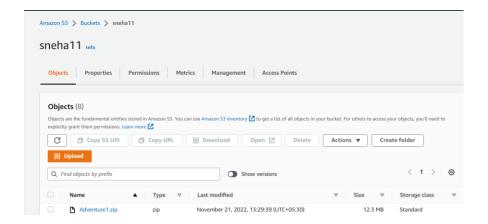
Sudo su Yum install httpd -y To change Directory – cd /var/www/html ls wget object url service httpd start

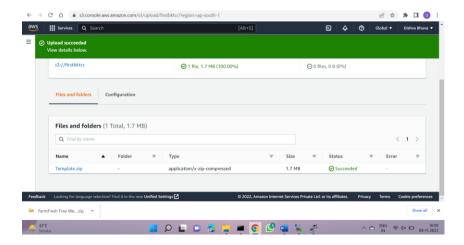
Go to EC2 instance and click on the public IPv4 address or open it in the browser window. It shows the website which is uploaded in the S3 bucket



# **Dynamic Website**

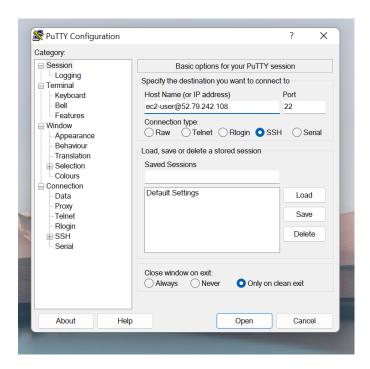
Upload website's files and folders into S3 bucket.



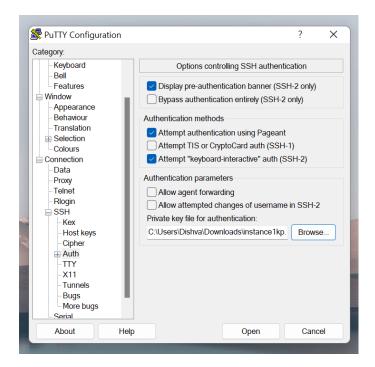


Now, you want to connect to EC2 by using Putty. Copy public IPv4 address of EC2 instance.

Open Putty and start a new remote session and enter the host name as "ec2-user@<IPv4 address>"



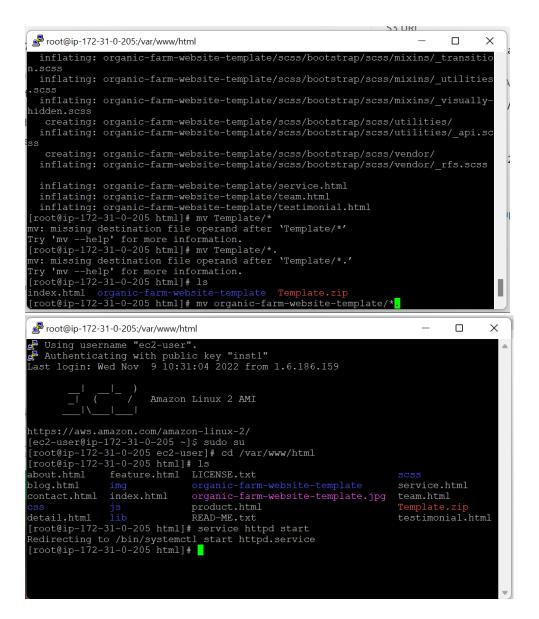
Click on SSH. Click on Auth and then Credentials. Check Use private key and browse location of key. Click OK.



Now you are connected to EC2 successfully

Copy content of website from S3 to directory /var/www/html in EC2 using the command "wget <object URL of the file in S3 bucket>".

Unzip the file using command "unzip <filename>". And move the files to the current folder using mv command. Then, start the web server using the command "service httpd start".



Go to EC2 instance and click on the public IPv4 address or open it in the browser window. It shows the website which is uploaded in the S3 bucket.



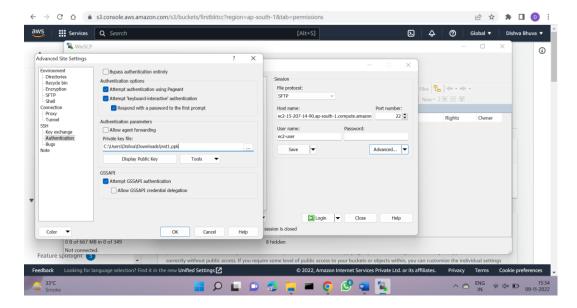
## Shift files from S3 to EC2

Shown in steps 4 to 10 of previous part of **Demonstrate the working of static and dynamic website through EC2** -> **Static Website** 

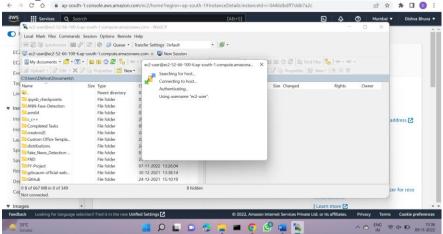
#### Shift files from EC2 to S3



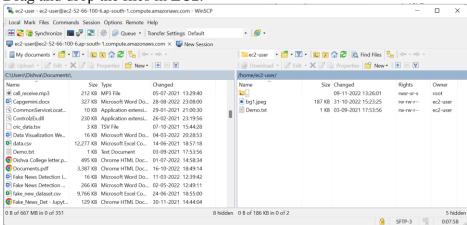
Copy Public IPv4 DNS and paste it in the Host name of the session. Keep User name as ec2-user. Go to Advanced Site Settings and browse the Private key file.



EC2 gets connected to WinSCP.

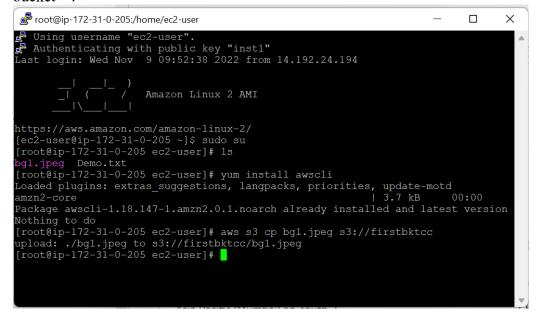


Drag and drop the files in EC2.



Connect EC2 through Putty (shown in previous part Static Website). Switch to root user and perform *ls* command. Files that are inserted in previous step are visible. Install aws command line using the command "*yum install awscli*".

Copy the file to the bucket using the command "aws s3 cp <filename> <S3 URI of the bucket>".



Go to the bucket from AWS Console and check if the transferred files are visible.

