VPC RESOURCE MAP:

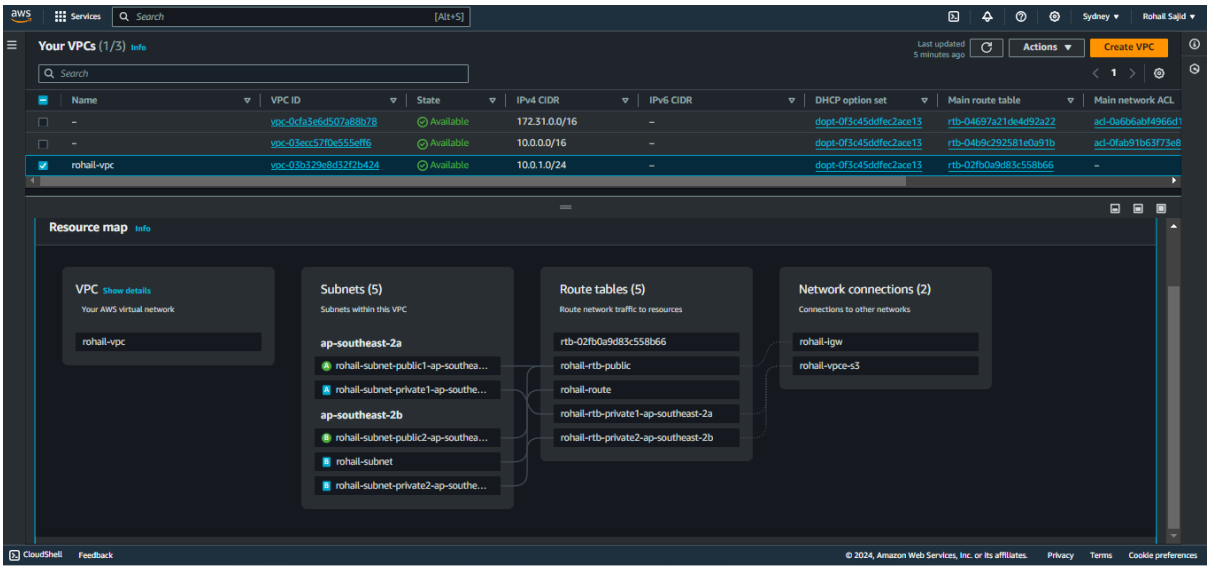


Figure 1VPC RESOURCE MAP

CONFIGURATION OF INSTANCE:

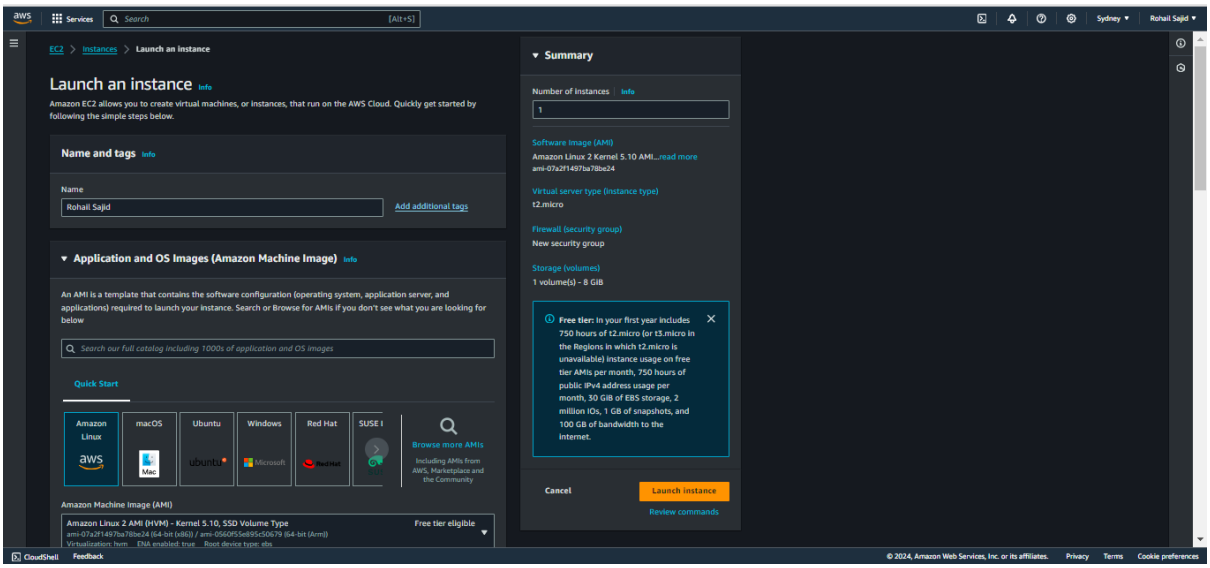


Figure 2 CONFIGURATION OF INSTANCE

SELECTING THE INSTANCE TYPE & KEY PAIR:

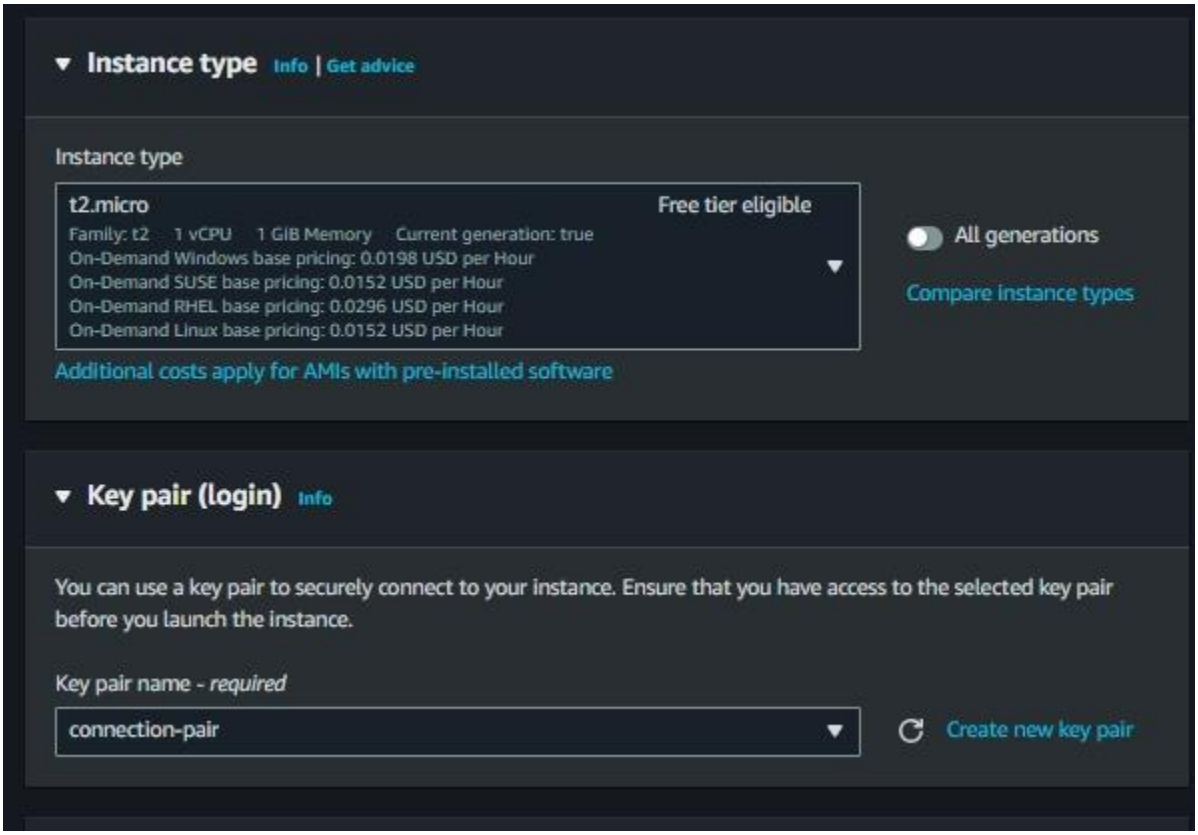
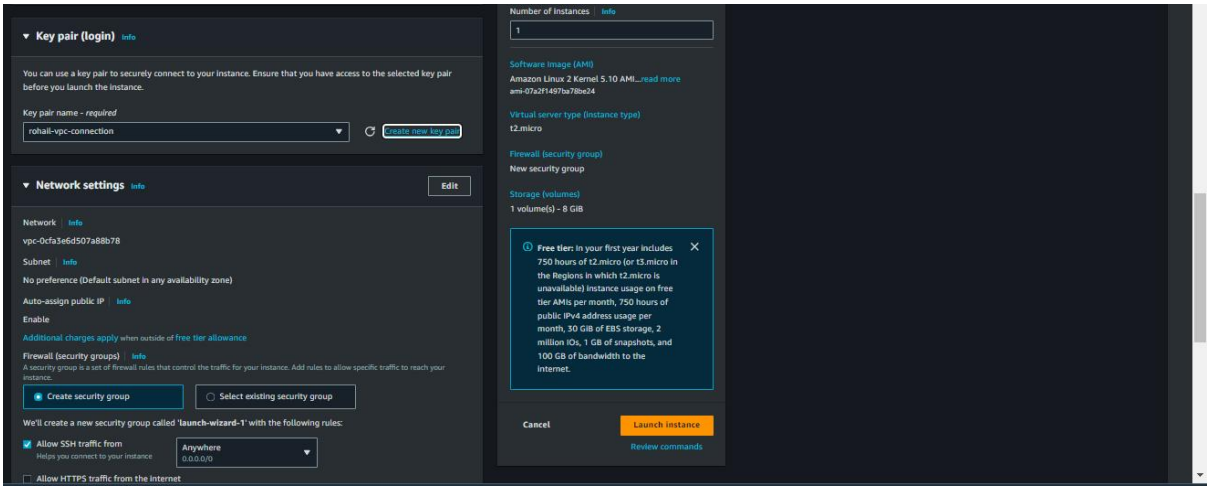


Figure 3 SETTING INSTANCE TYPE AND KEY PAIR



EC2 INSTANCE RUNNING STATE:

This step shows the running of the ec2 instance which shows all the configurations are set properly.

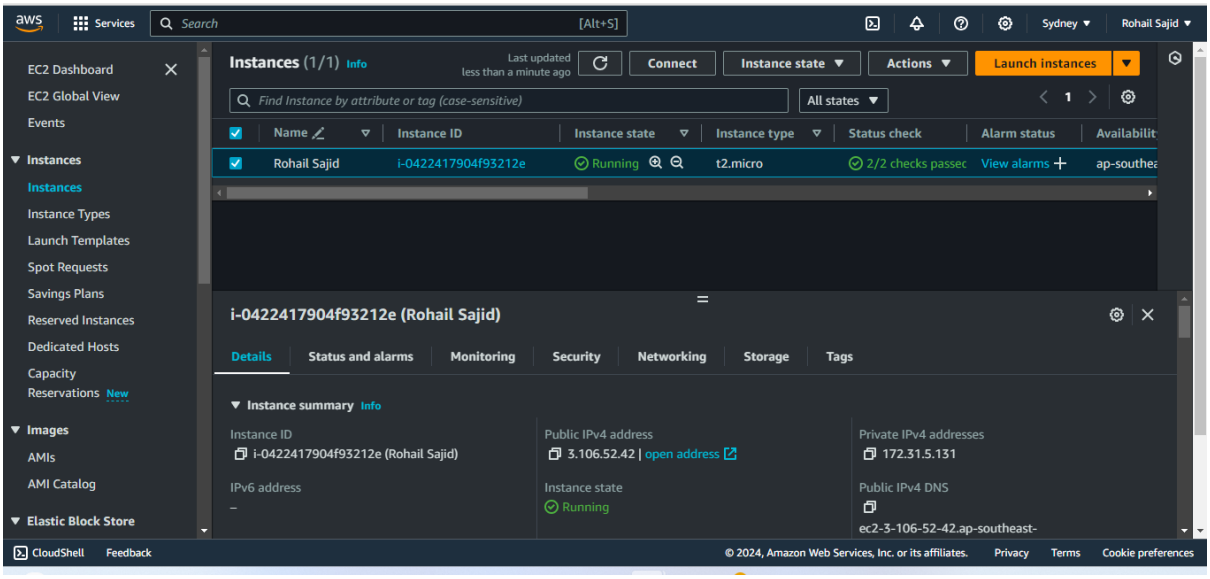


Figure 4 INSTANCE CREATION AND STATE

INSTANCE SUMMARY:

This summary shows the detailed view of the running instance summary with the public ip detail. For the instance Rohail Sajid

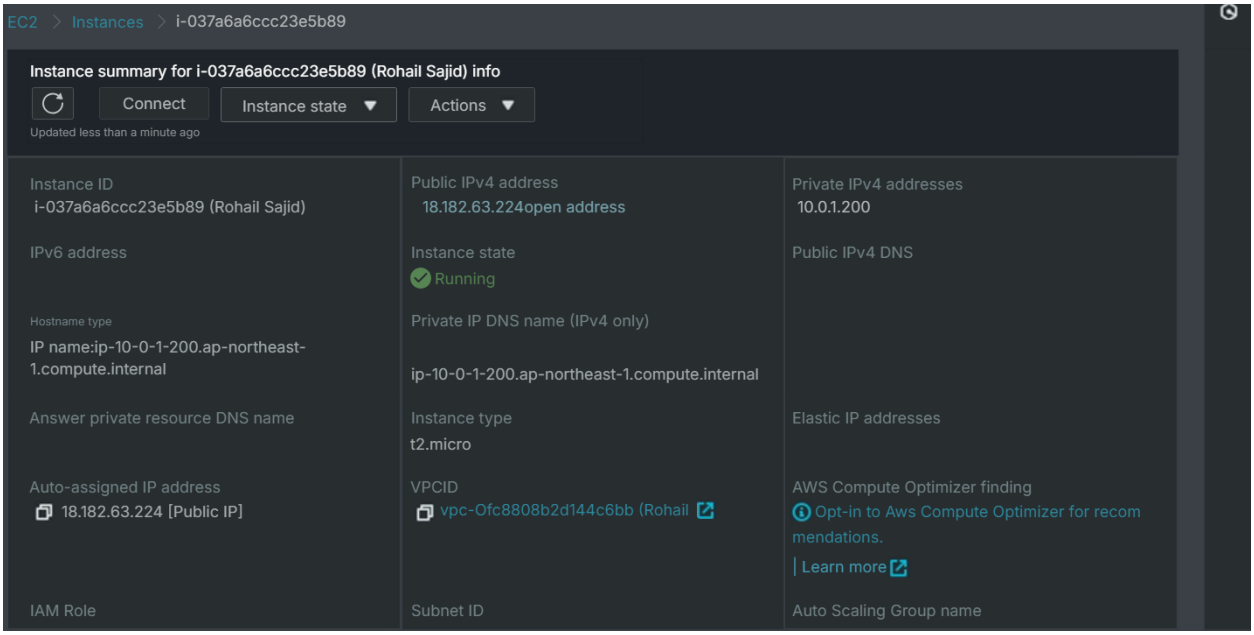


Figure 5INSTANCE SUMMERY

SSH INSTANCE CONNECTION:

This shows the processing of the connectivity for the public ip which is discovered from the subnet.

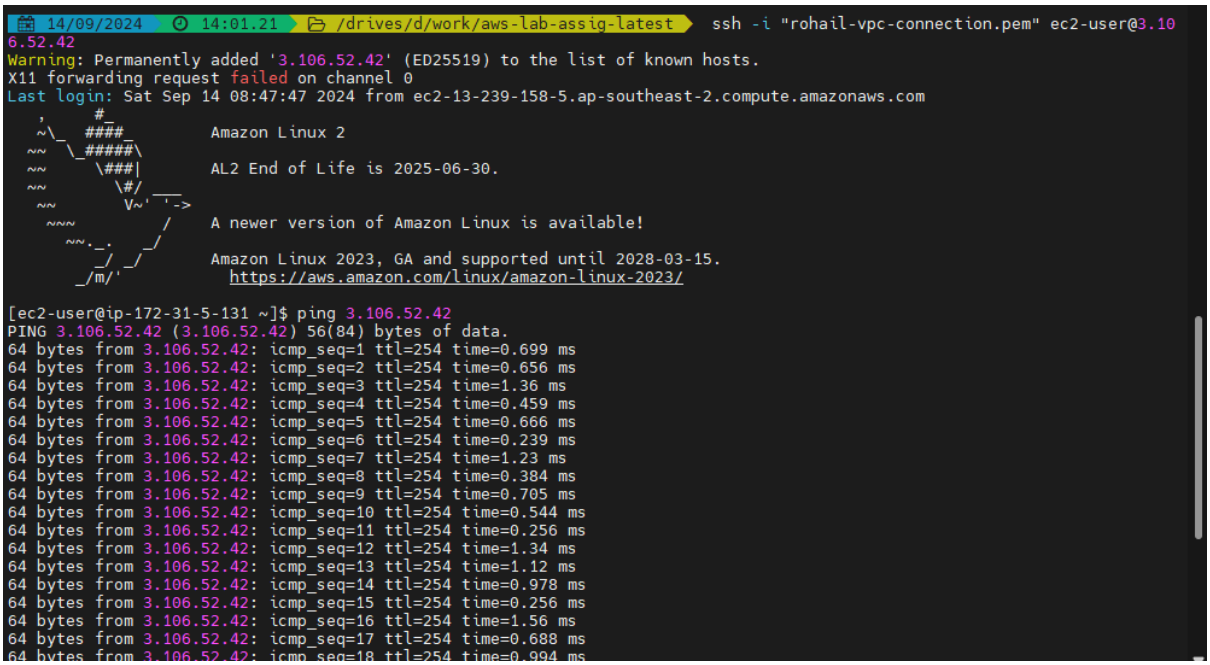


Figure 6 SSH INSTANCE CONNECTION

CONNECTION AND PING RESULT:

This shows the successful connection for the public IP and the ping is being established and that host is reachable.

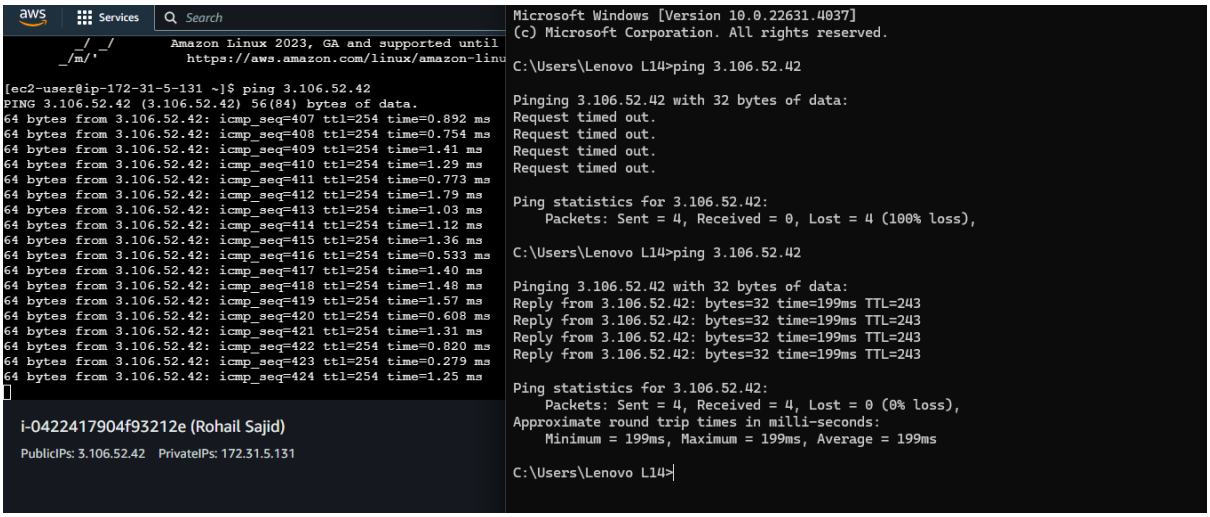
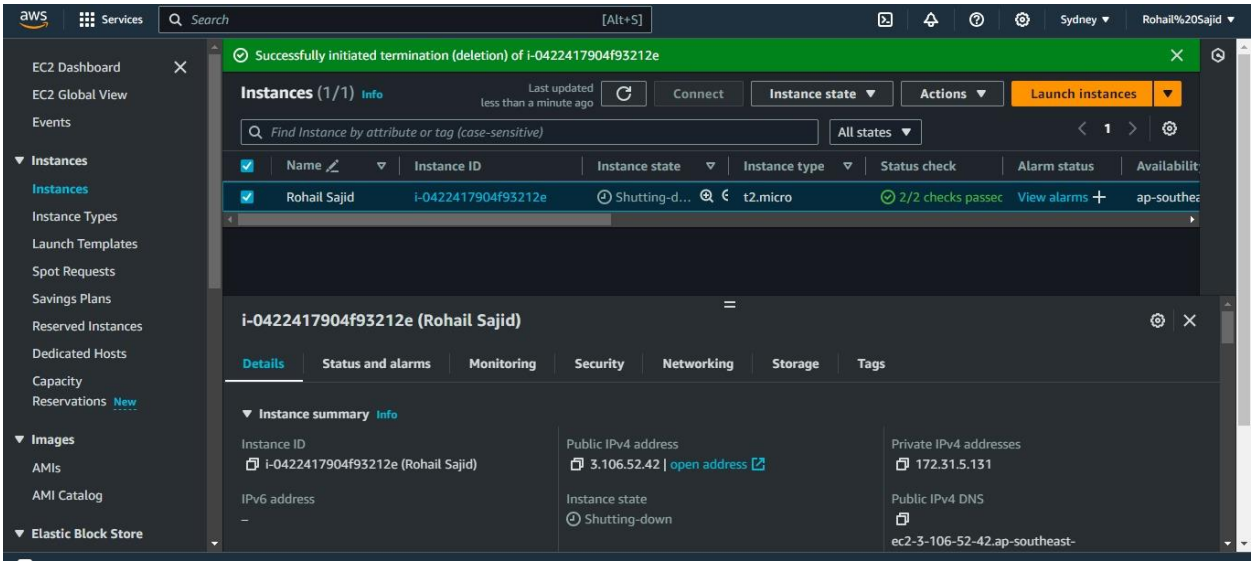


Figure 7PING STATUS OF PUBLIC IP

TERMINATION OF INSTANCE:



Create an S3 Bucket

In this step, first we have to create an s3 bucket with the unique name of student

Screenshot of the S3 bucket creation:

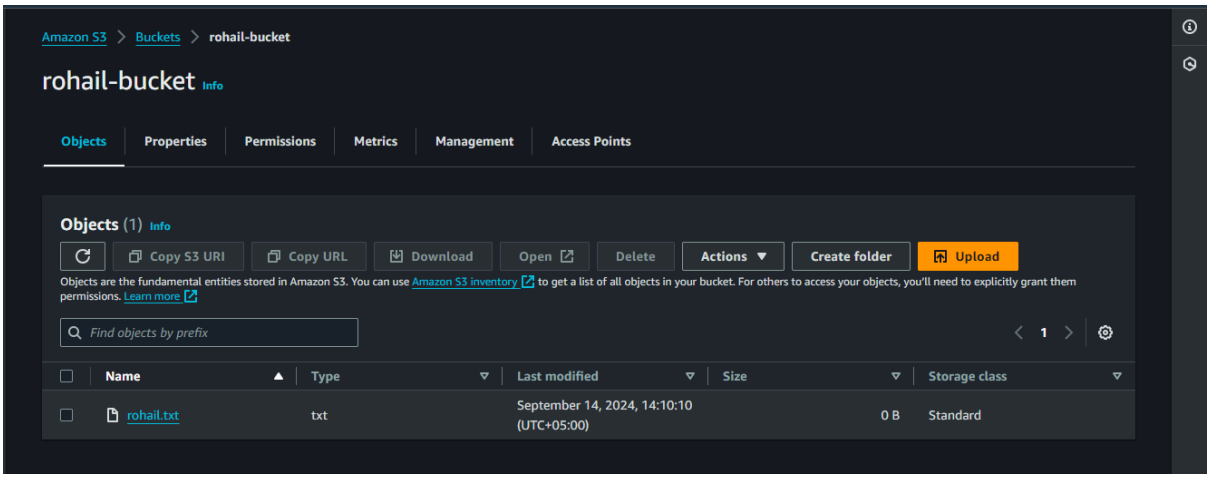


Figure 8 S3 BUCKET CREATION

UPLOADING FILE

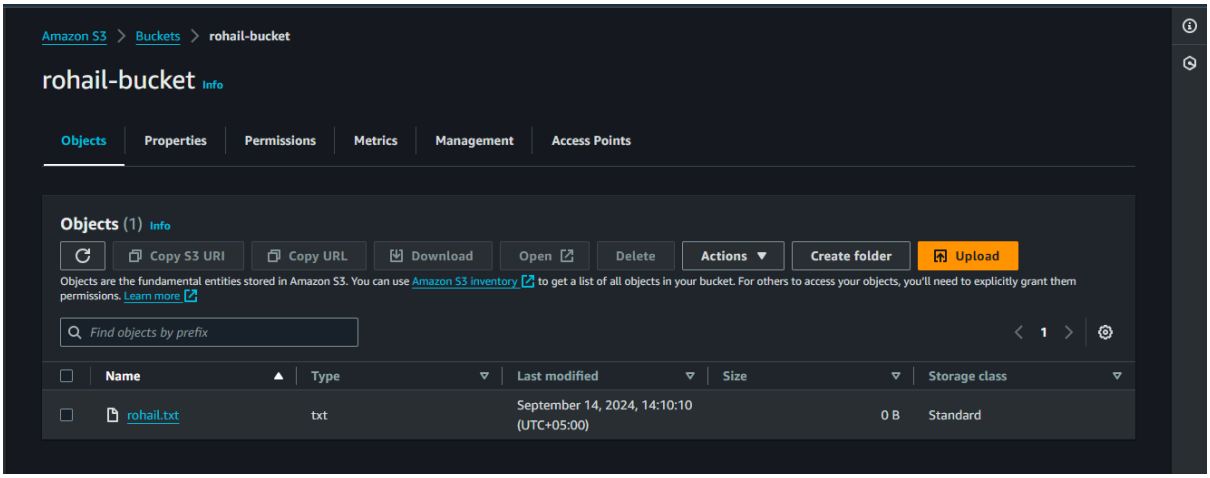


Figure 9UPLOADING FILE

Upload Files to S3

We have configured the s3 bucket s3 bucket contains the detail step and images of uploaded index file and with the image of table.

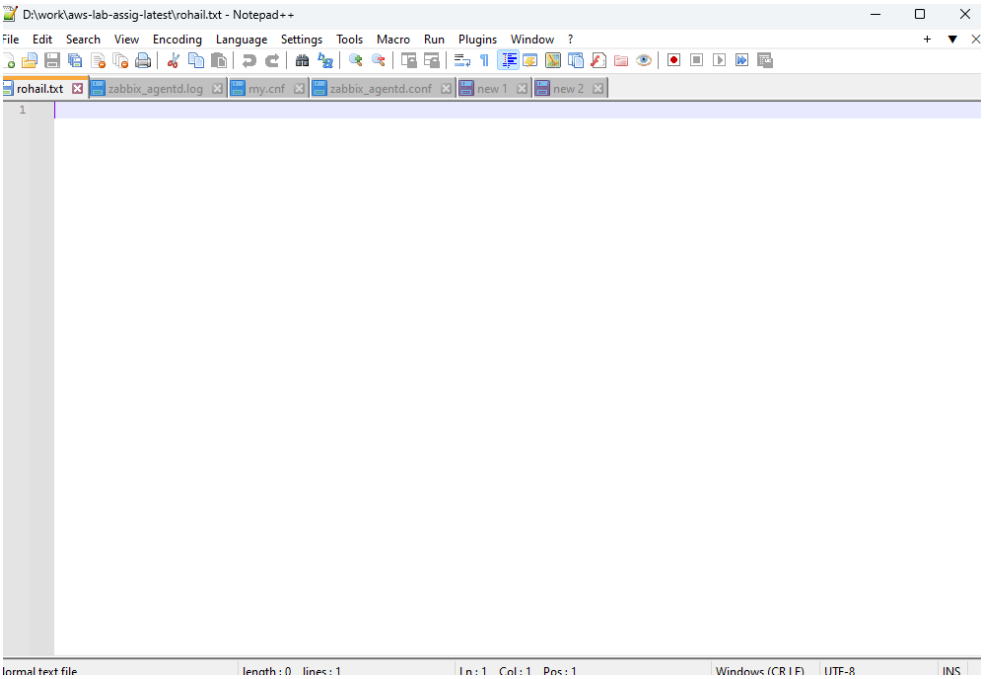


Figure 10 EMPTY FILE UPLOADED ON S3

Set Bucket Permissions

In this step we have updated the bucket permission to public and all files are step as public so website is accessible.

Screenshot of the permissions setup:

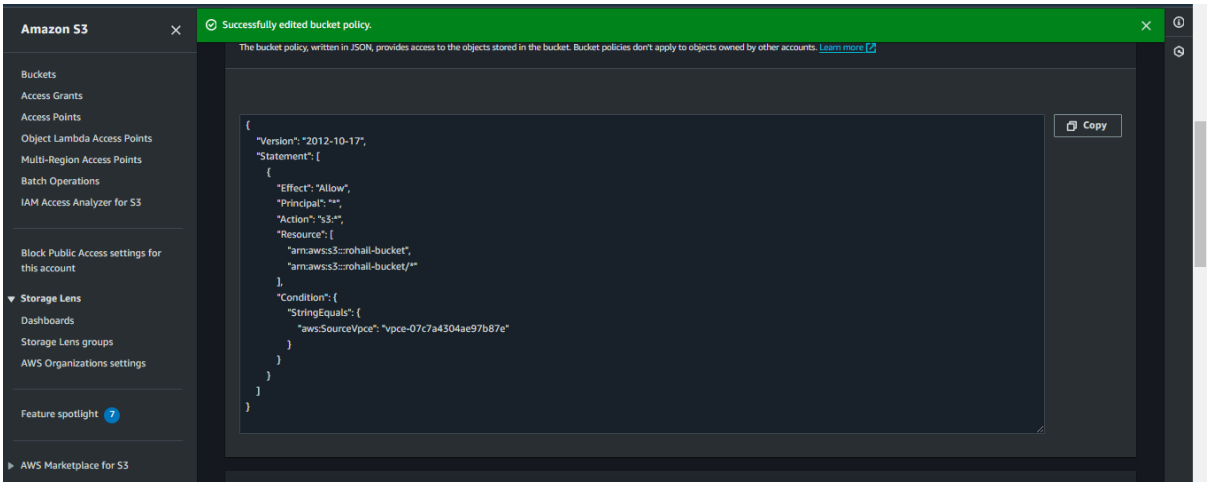


Figure 11 BUCKET PERMISSION

Endpoint Creation Resource Map

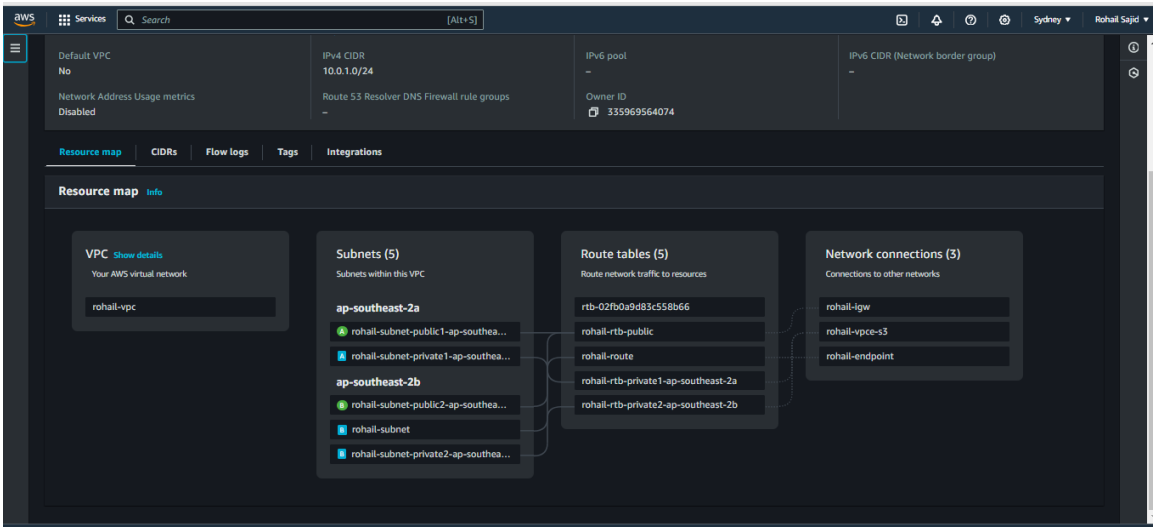


Figure 12 RESOURCE MAPPING WITH ENDPOINT CREATION

ROLE CREATION

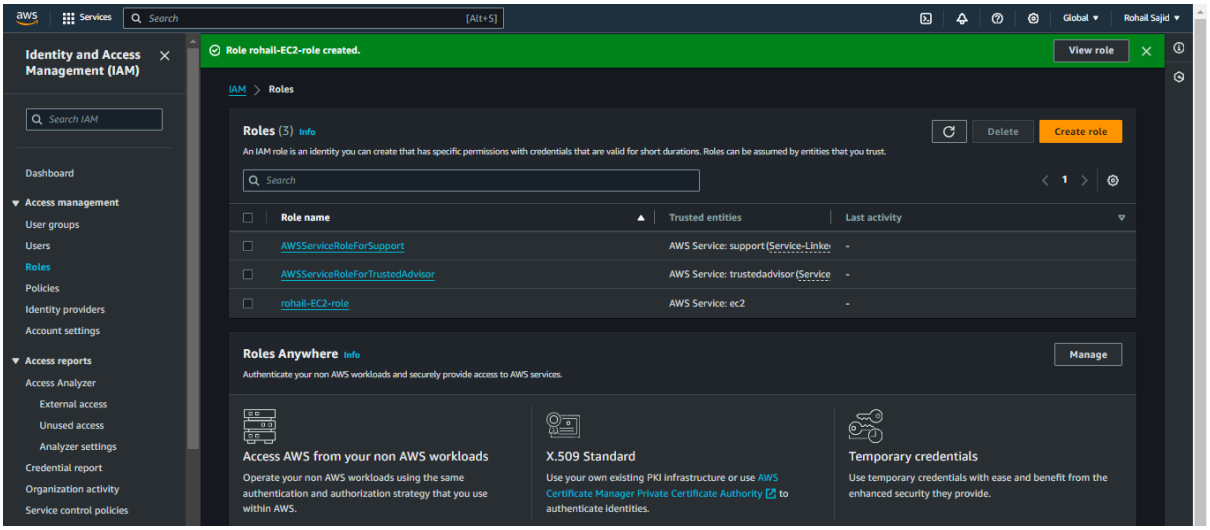


Figure 13 ROLE CREATION

UPDATED IAM ROLE

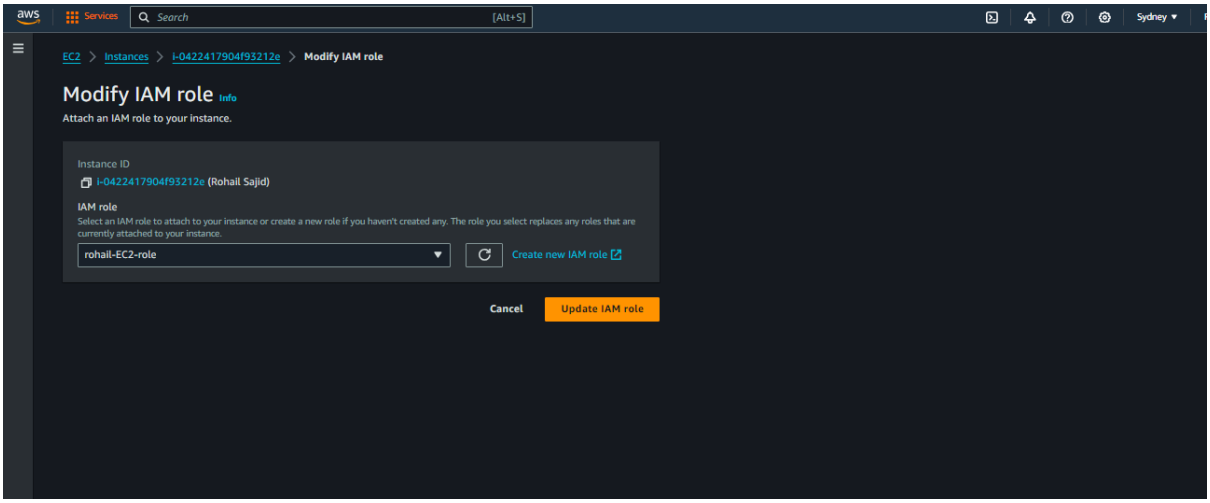


Figure 14 UPDATED IAM ROLE

UPDATED BUCKET POLICY

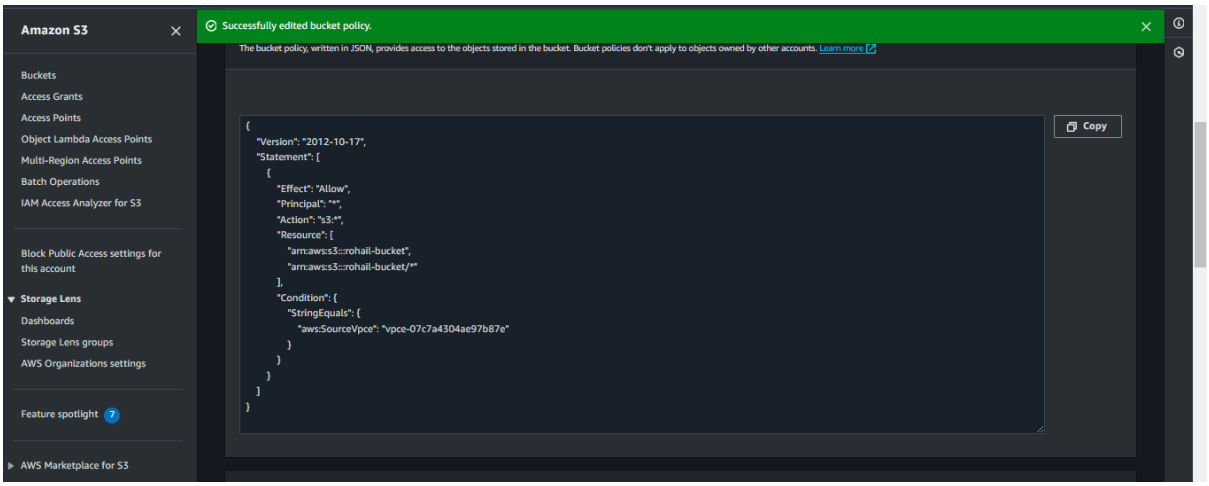


Figure 15 UPDATED BUCKET POLICY

COMMAND EXECUTIONS ON BUCKET

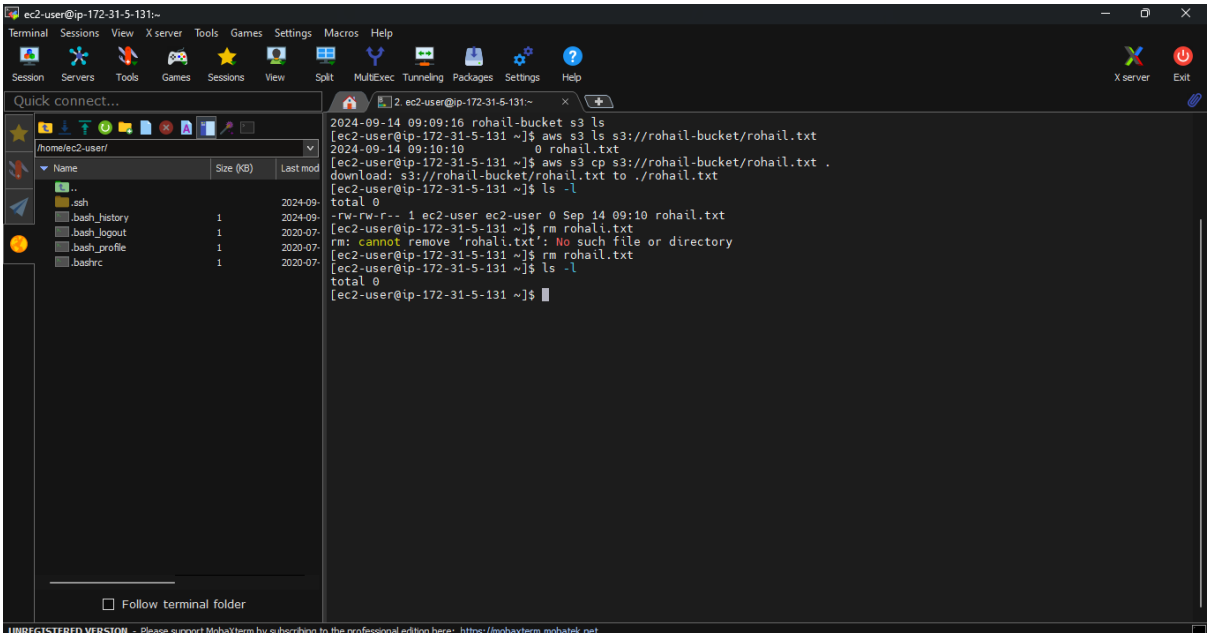


Figure 16 COMMAND EXECUTION ON BUCKET

Question 1: Explain briefly in your report, what are the TWO main differences between the updated bucket policy in step 6, and the previous policy that was used in step 2 (4marks)

Answer:

Scope of Accessing:

The previous Policy was open to the public, allowing anyone to read objects.

Current Policy is restricted to a specific VPC endpoint, allowing access only from resources within the VPC.

Access Level:

Previous Policy: Read-only (Get Object) access.

Current Policy: Full S3 access , including upload, delete, and modify actions, but limited to the VPC endpoint.