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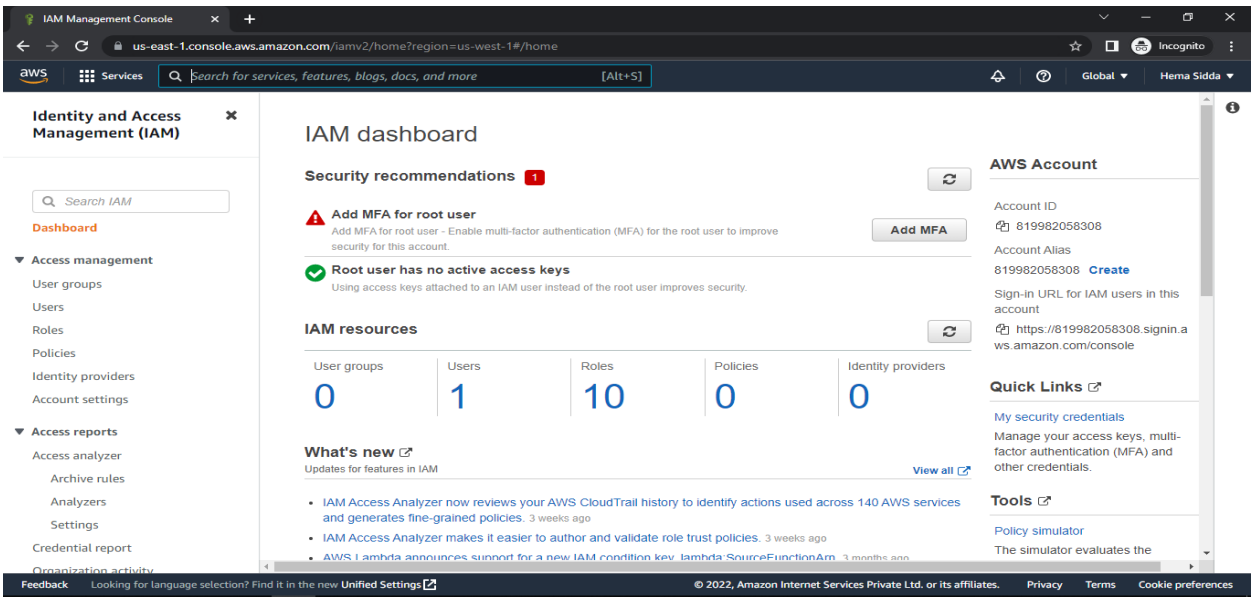
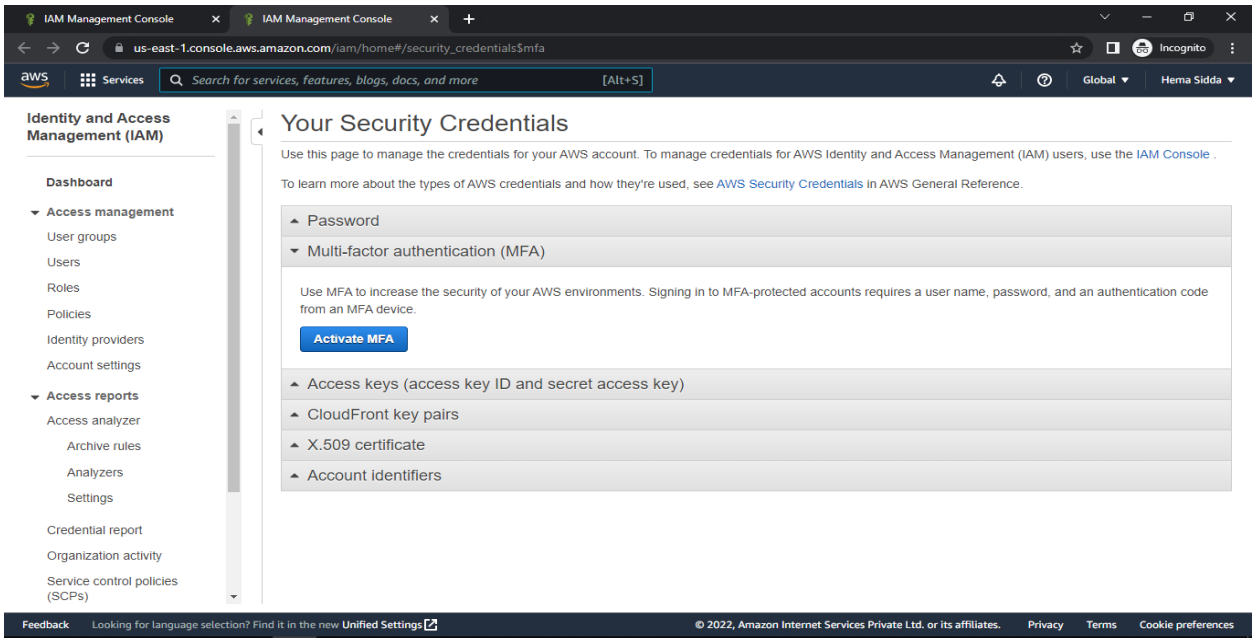
LAB-1

IAM Hands-on:

- First login aws account and go in to the IAM services.



- Now click on Add MFA and create a MFA(Multi-Factor Authentication) for root user.



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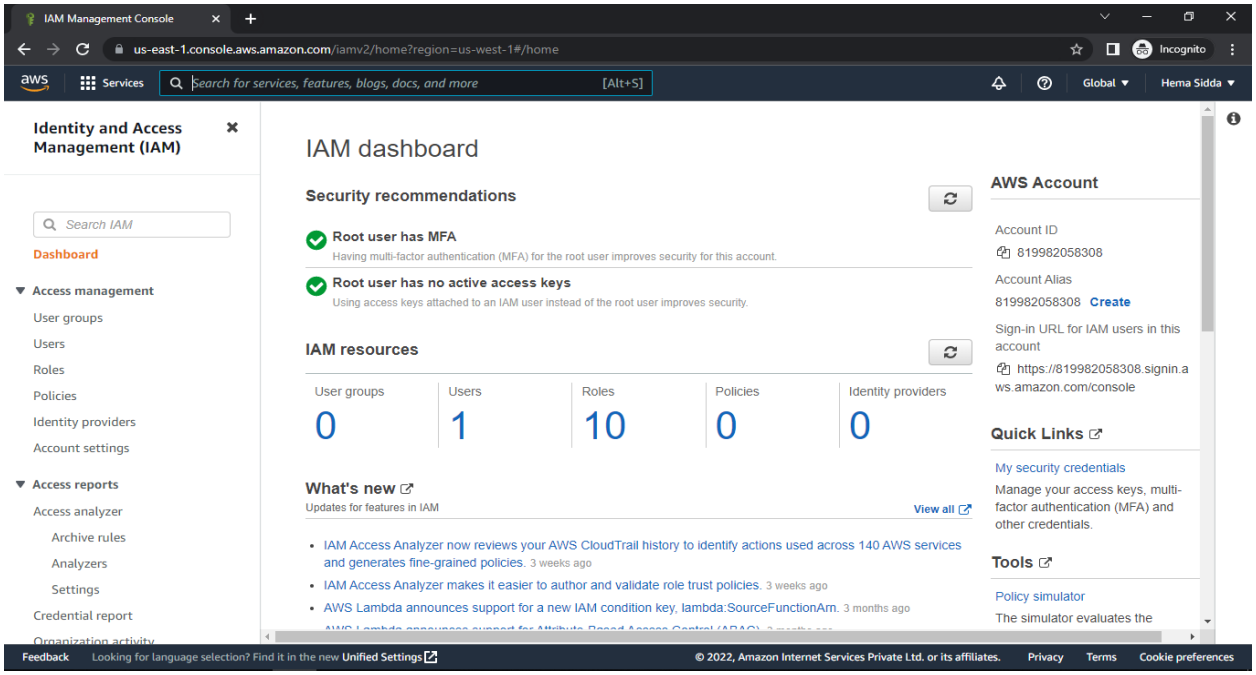
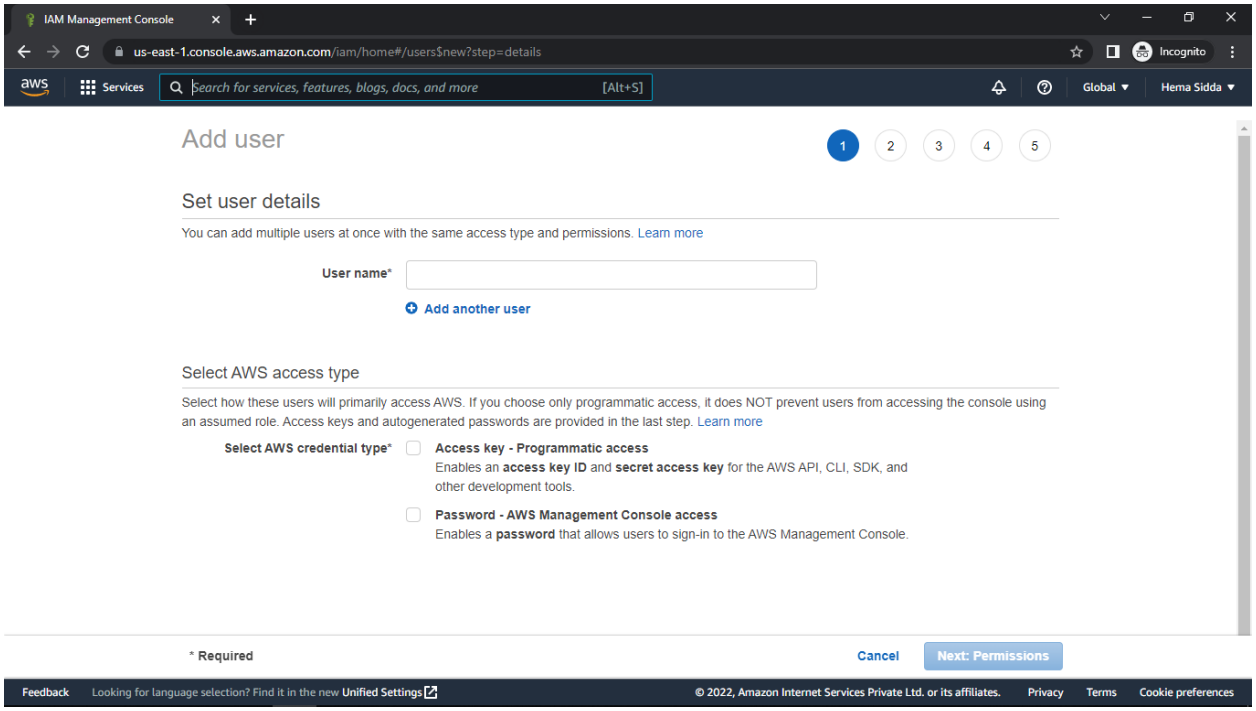
- Finally MFA created for root user successfully.



- Create a user account with EC2 full permissions only then first clixk on add user.



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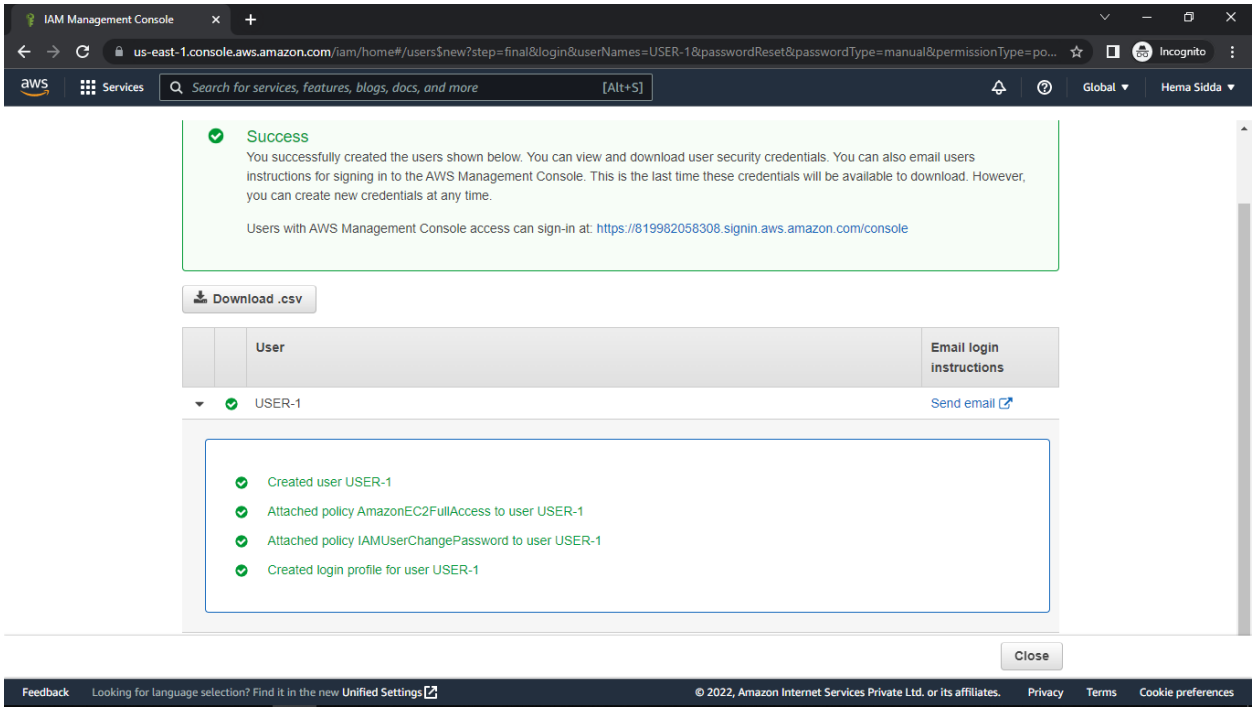
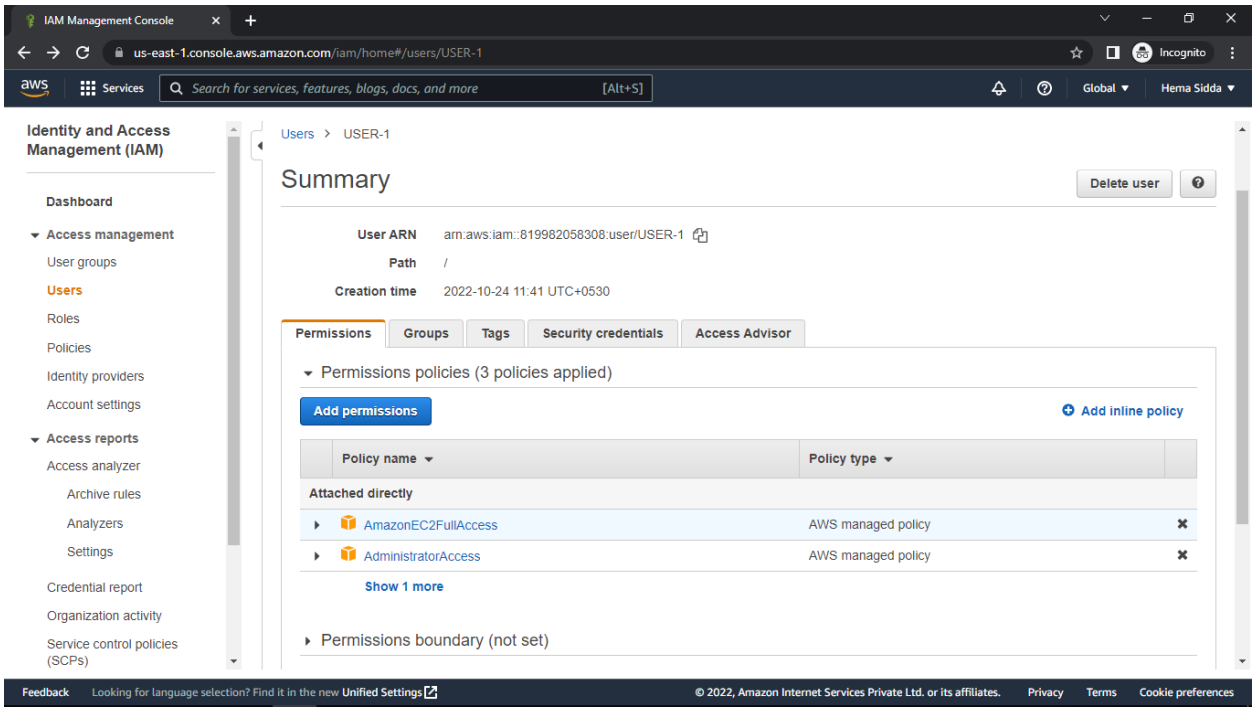
- Finally created a user account with only EC2 full permissions.



- Now give Administrator Access to this created user account(USER-1).



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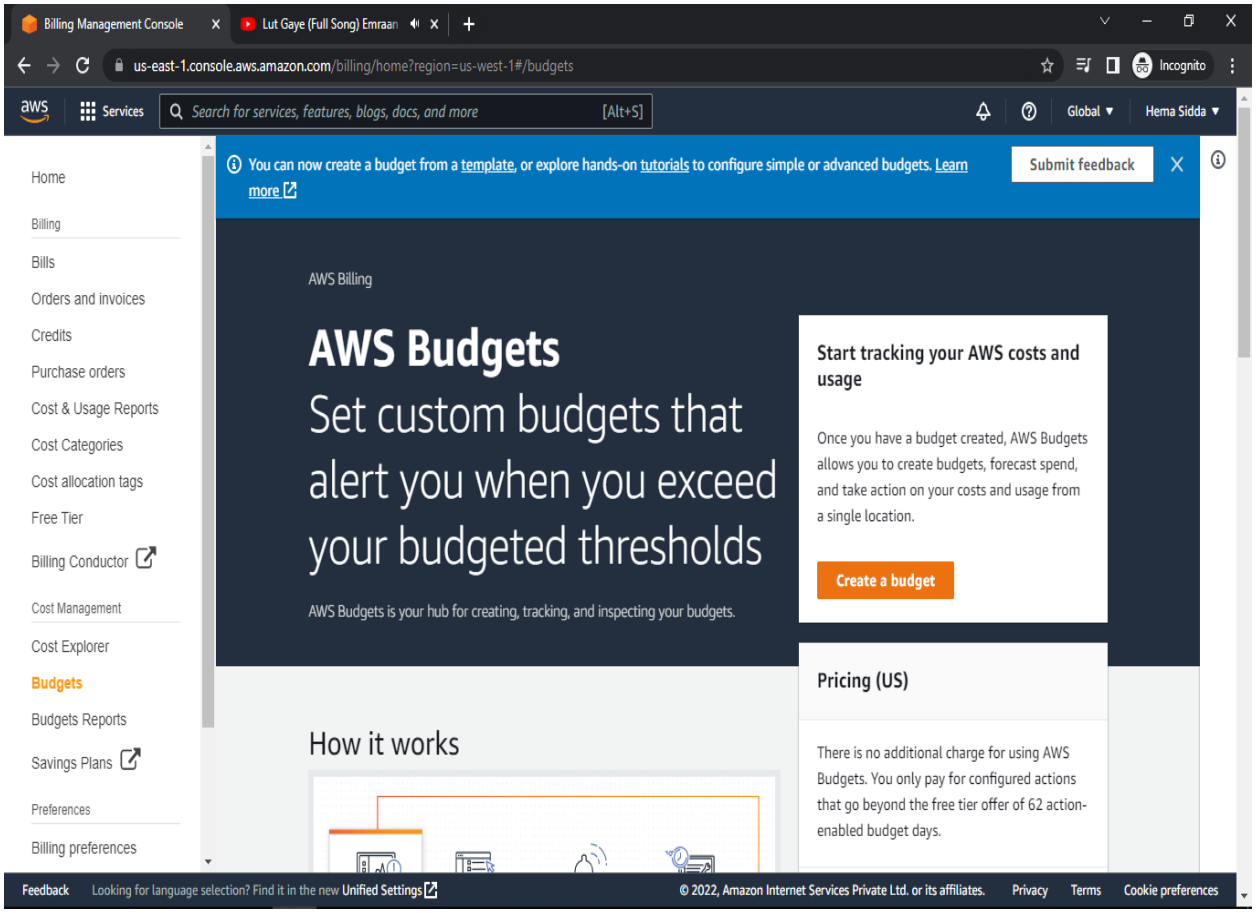
LAB-2

Billing Alarm:

- Now setup a billing Alarm for your account to get a notification when you cross the billing threshold.
- First go to billing dashboard at budgets and click on it and setup a budget for your account.



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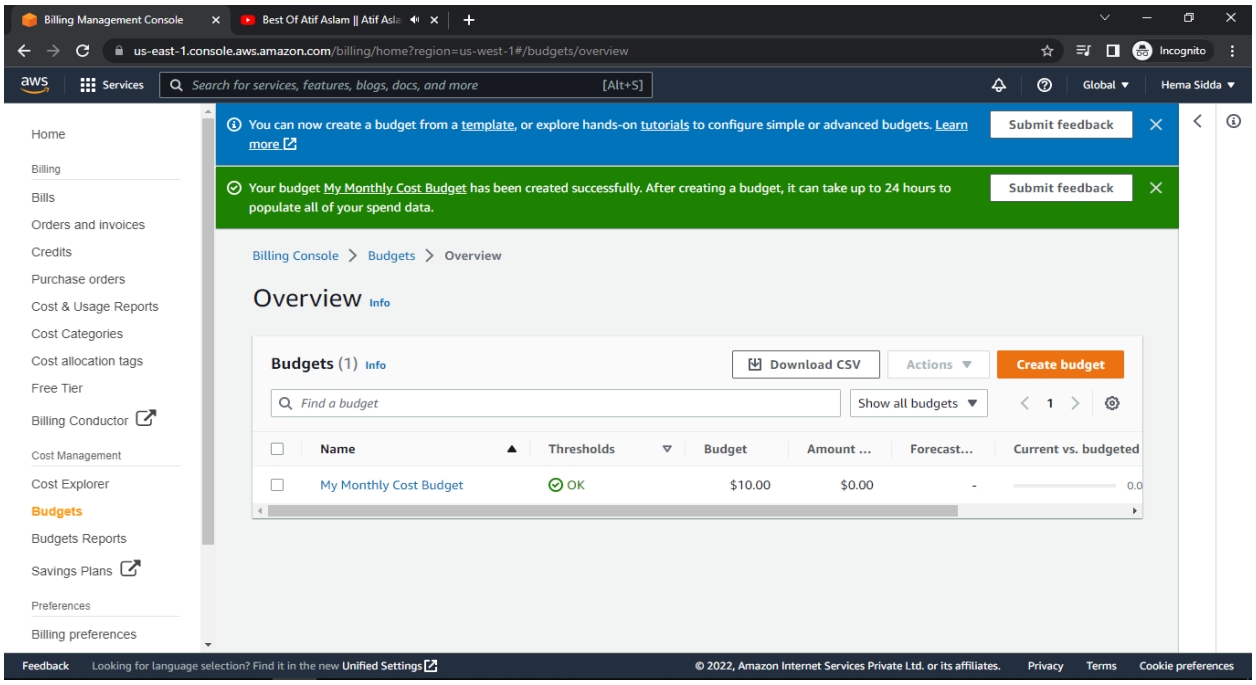
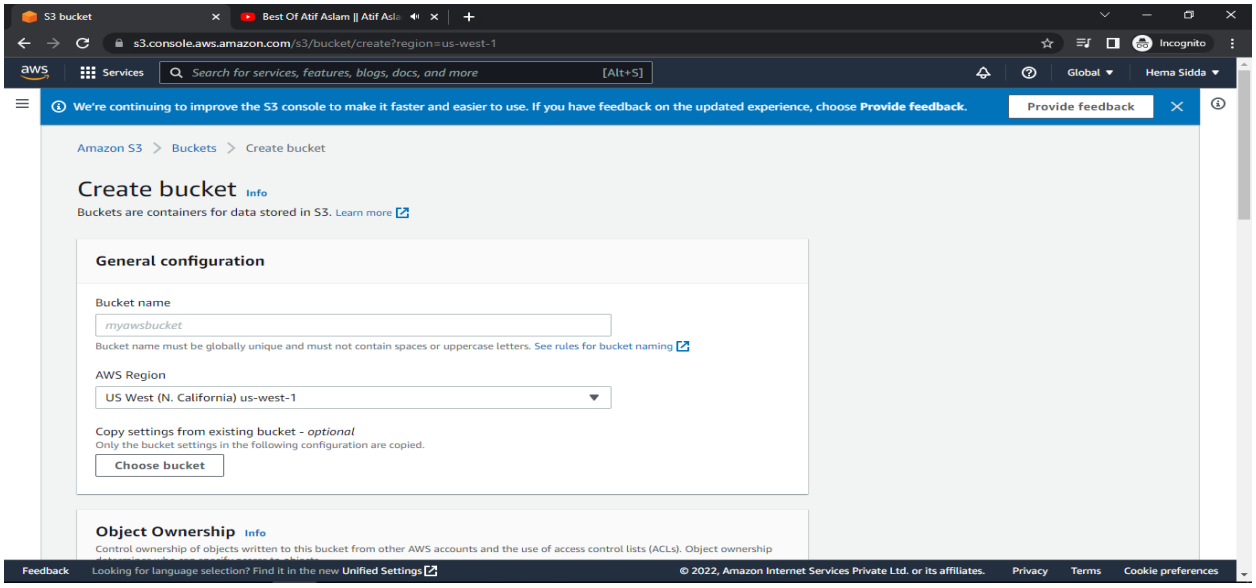
➢ Finally setup the billing alarm at some threshold value successfully.



LAB-3

S3-BUCKET:

➢ Create a S3 bucket and add some files and browse it through url.



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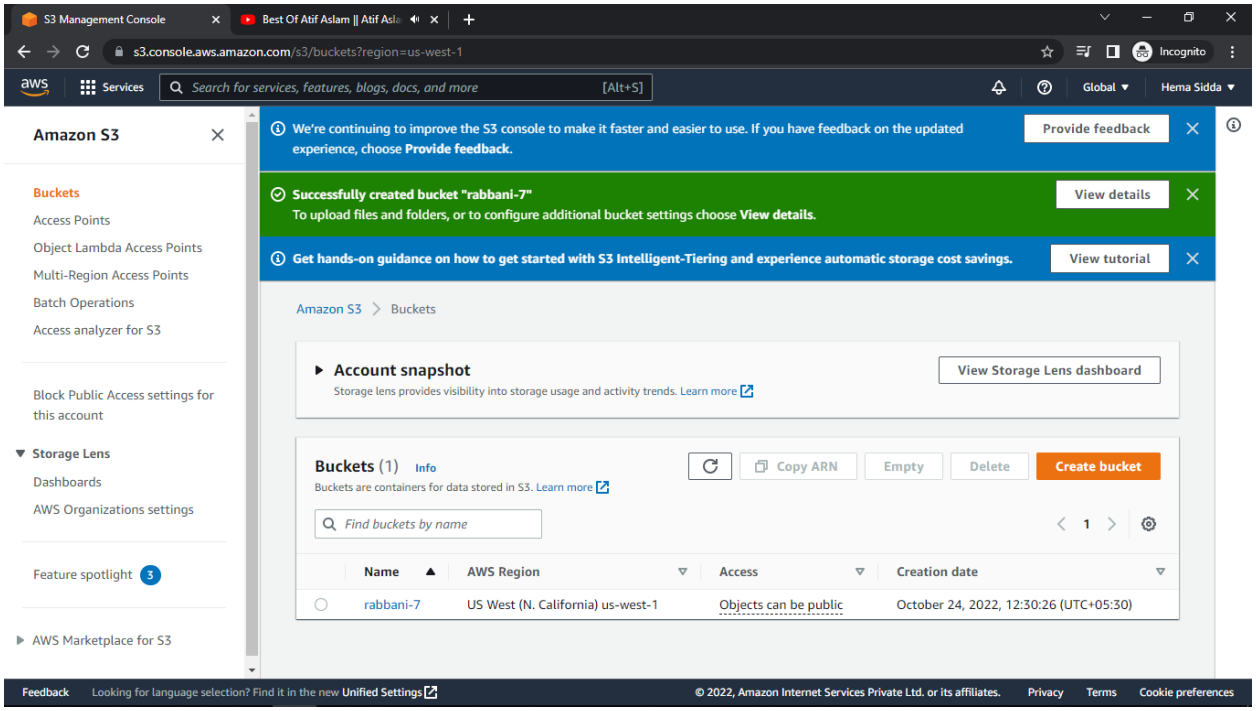
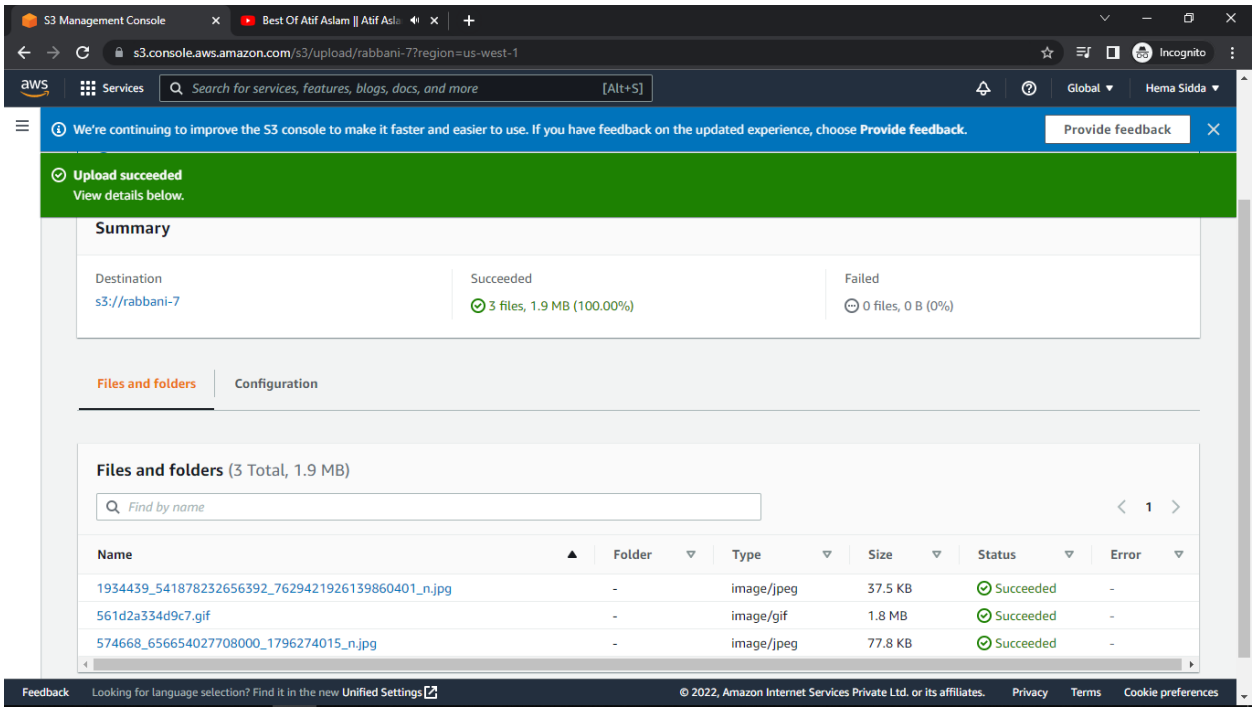
- Finally S3 bucket is created successfully.



- To add some files or folders to S3 bucket under objects option.



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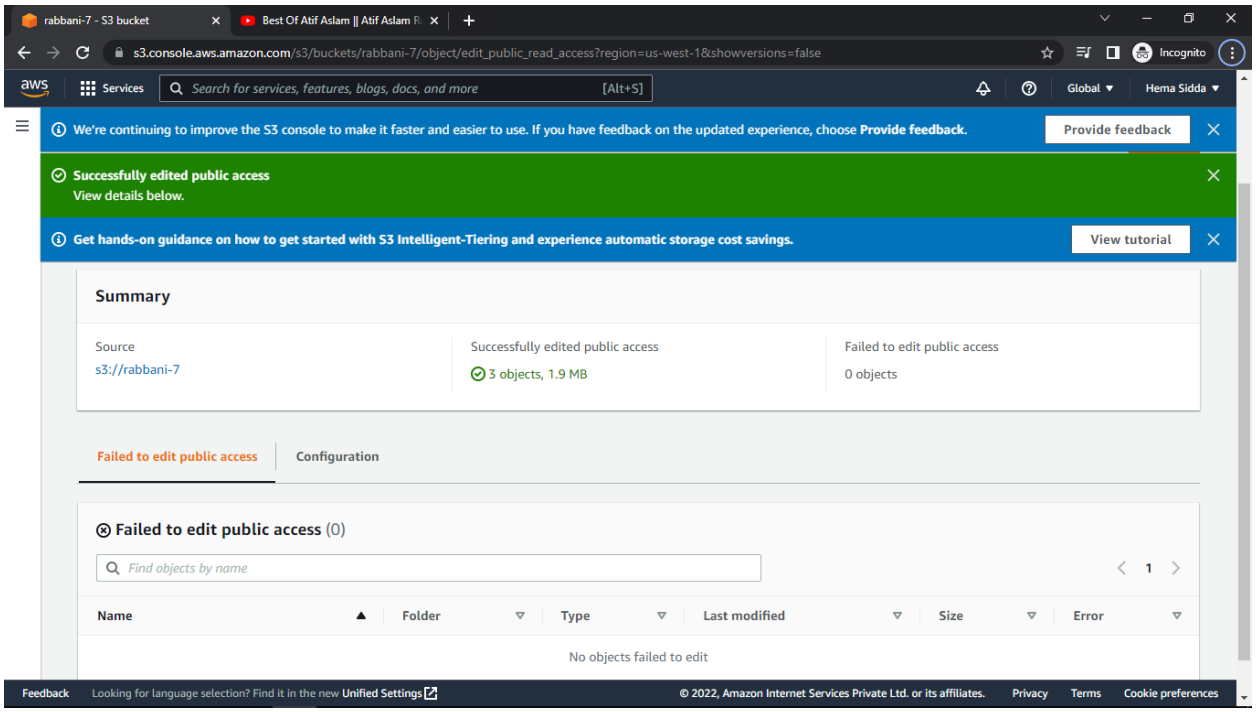
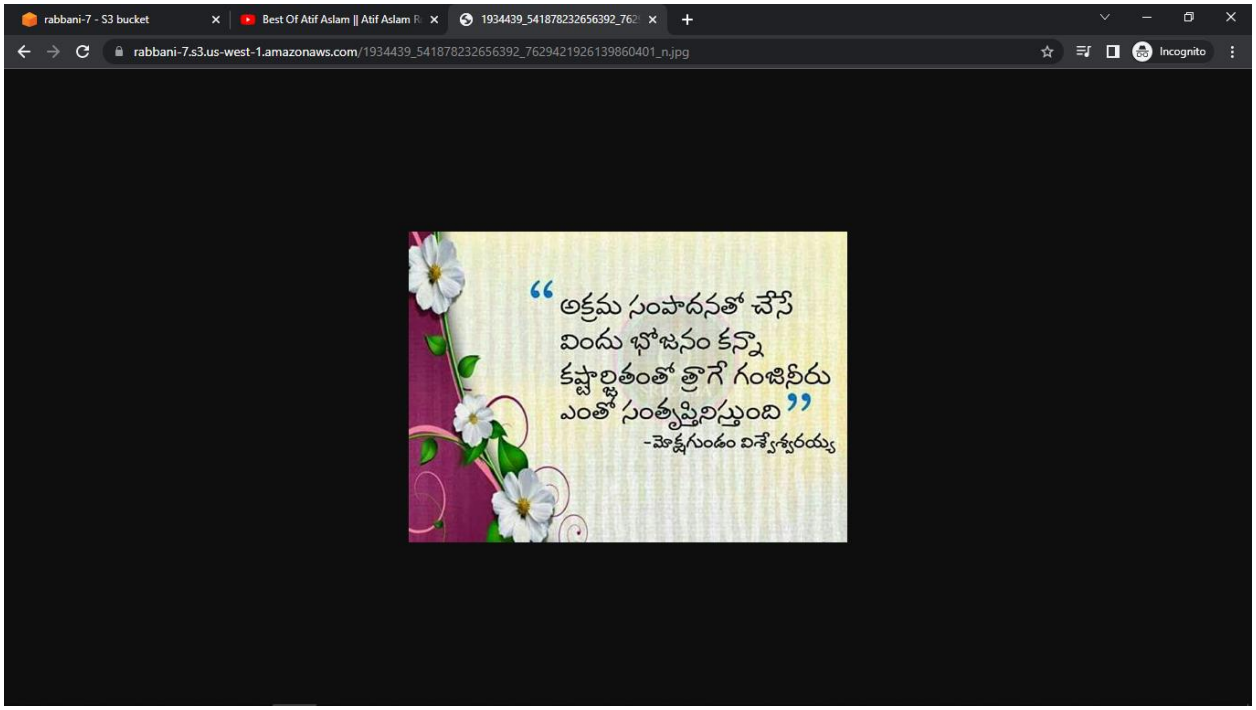
- Now browse the added files by configure make a public using ACL option.



- Now copy the URL of file and past it in google tab and browse it.



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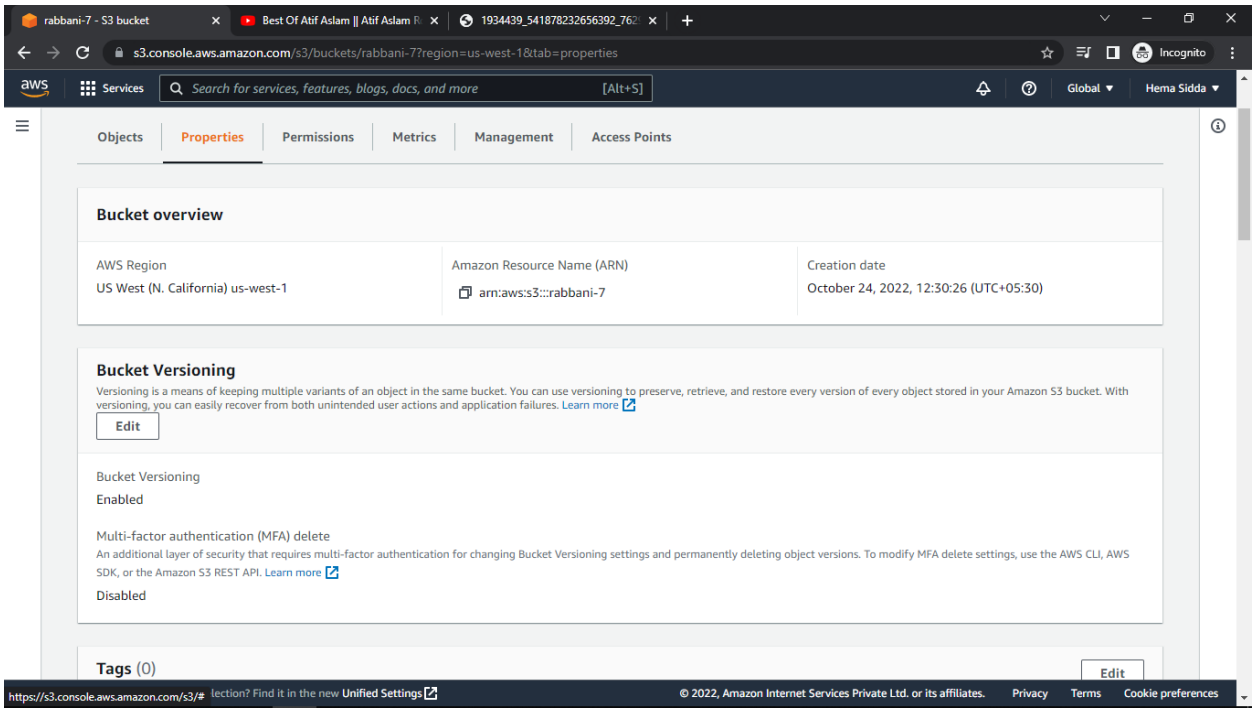
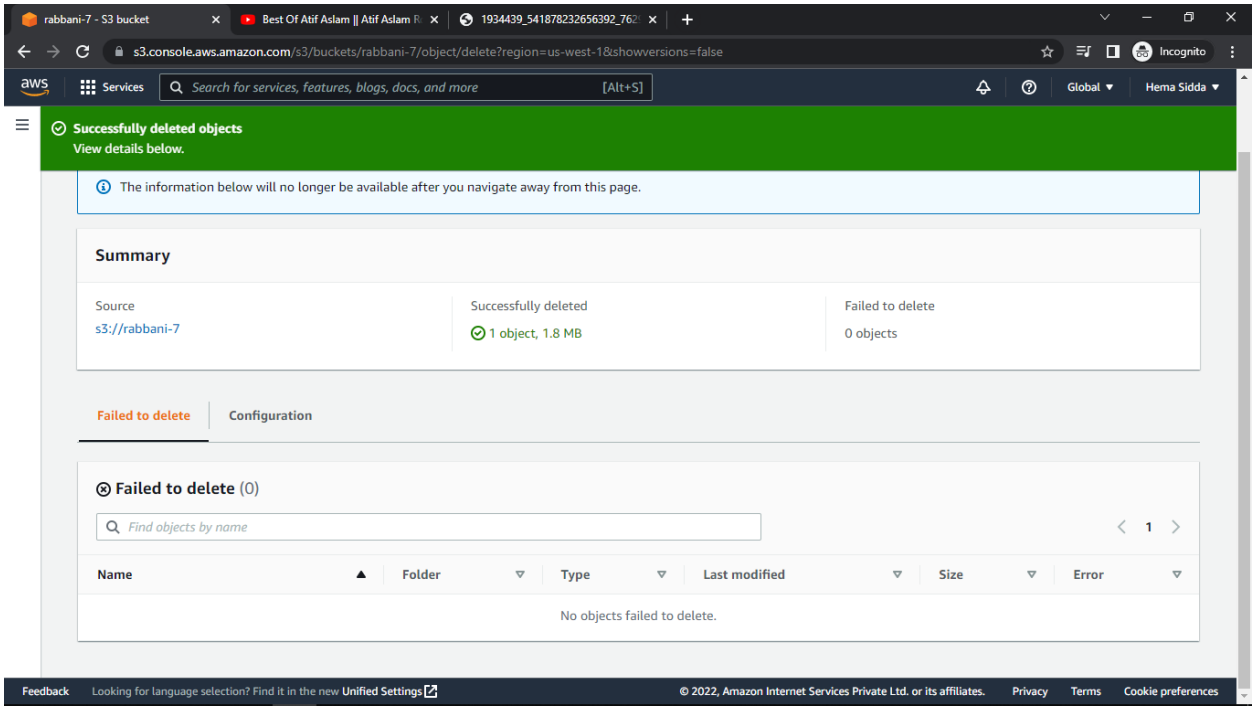
- Now go to properties and enable bucket versioning and upload new files and delete that file.



- Now delete the files which are uploaded, below shows before delete



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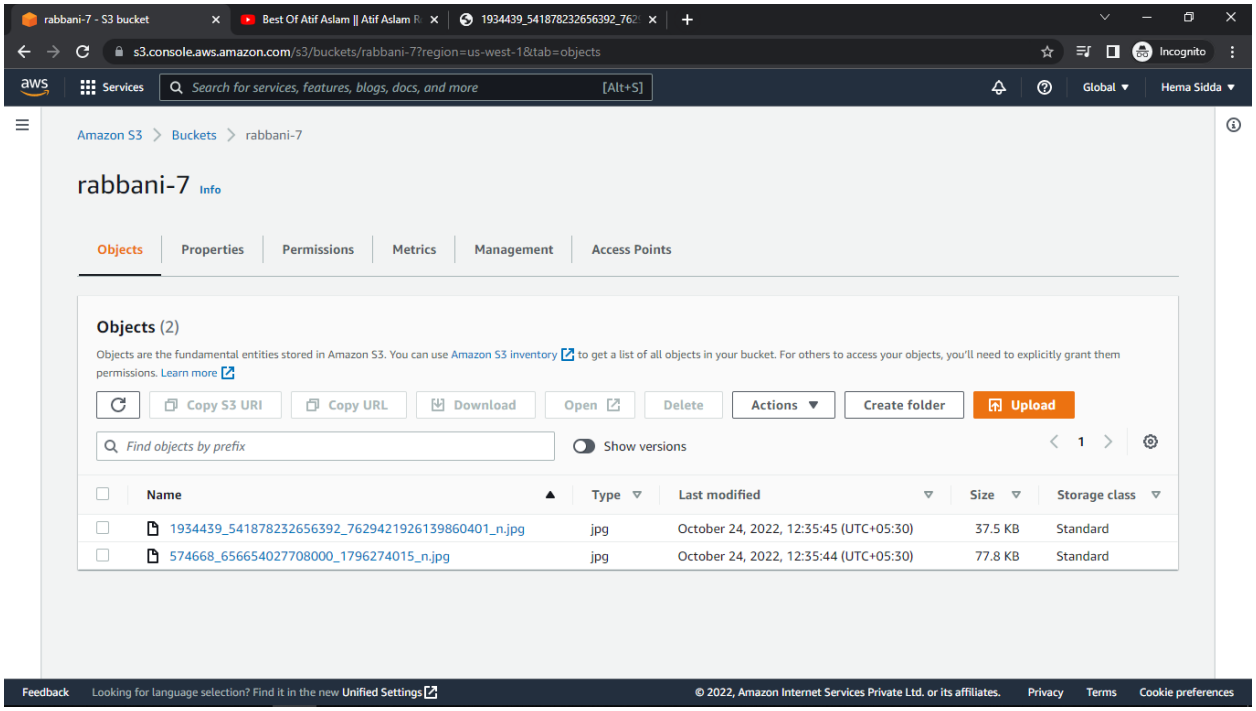
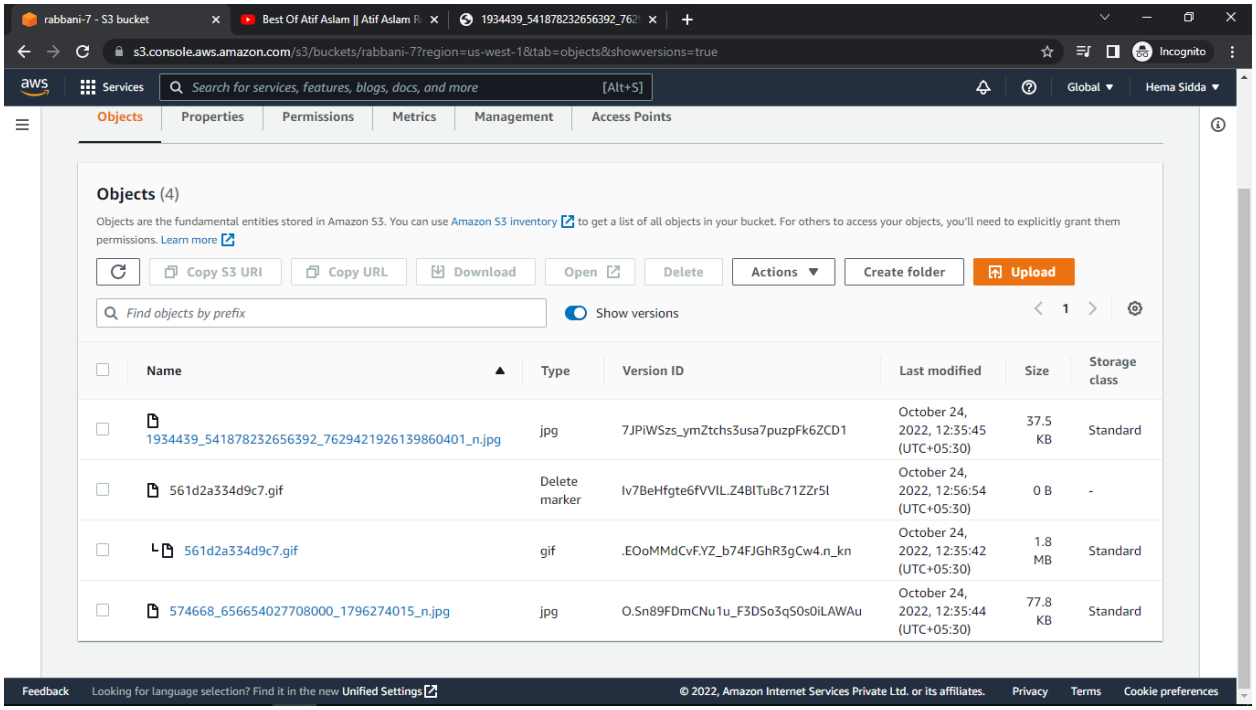
- Now delete the files which are uploaded, below shows after delete



- Now recover the deleted file by using bucket versioning option and it shows the deleted original file with size and dummy file is 0 size.



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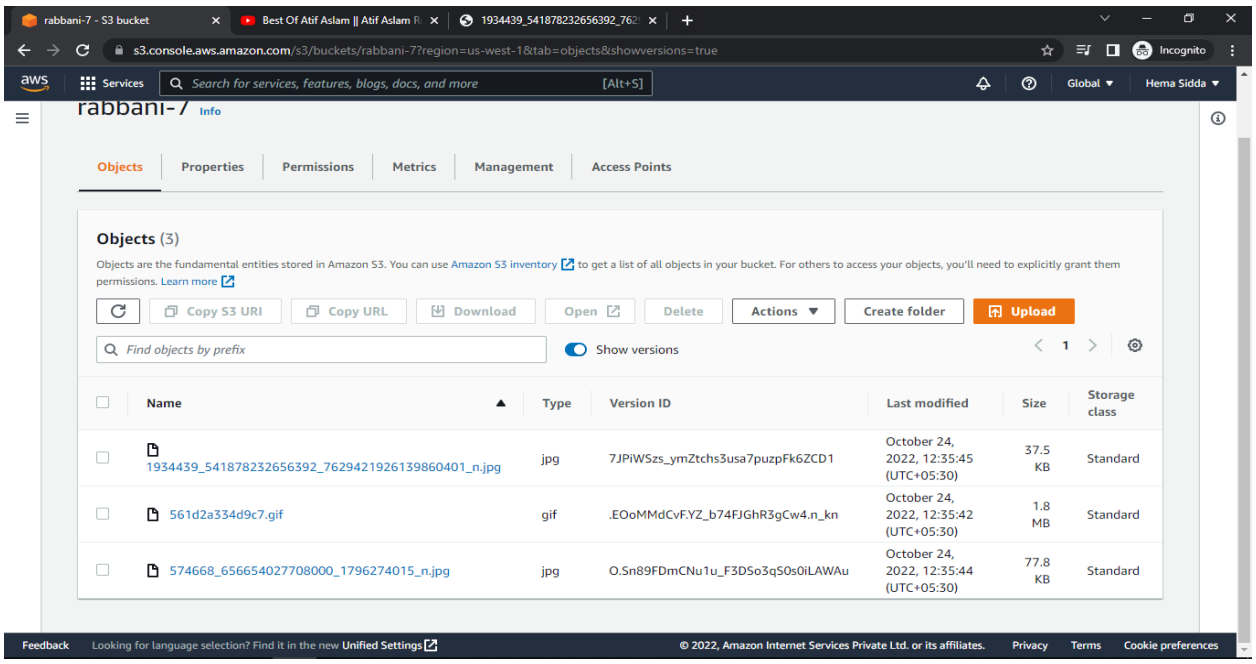
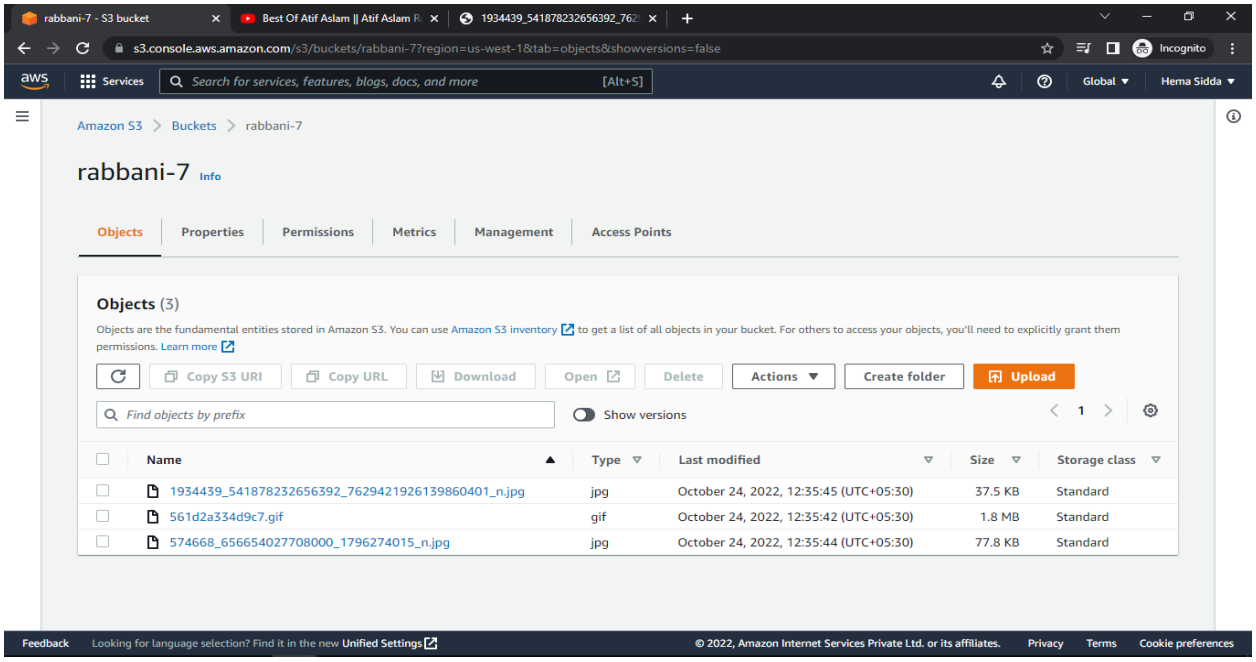
- Now recover the deleted file by using bucket versioning option and here deleted the delete marker file permanently to recover original file.



- Finally deleted file is recovered by using bucket versioning option.



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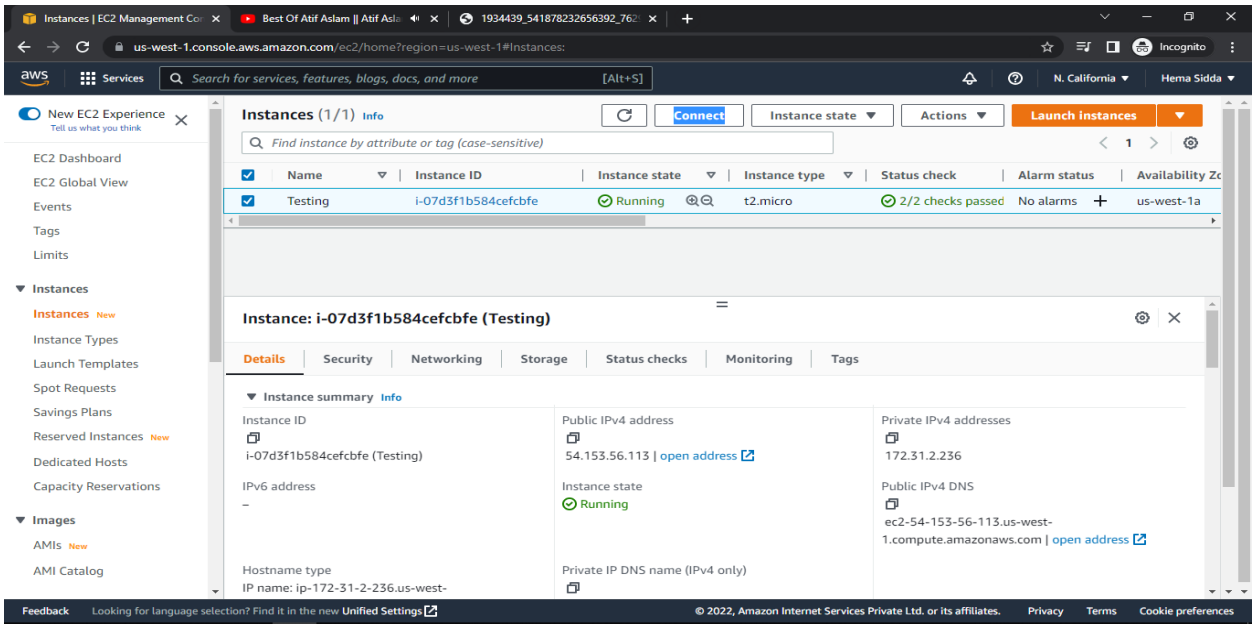
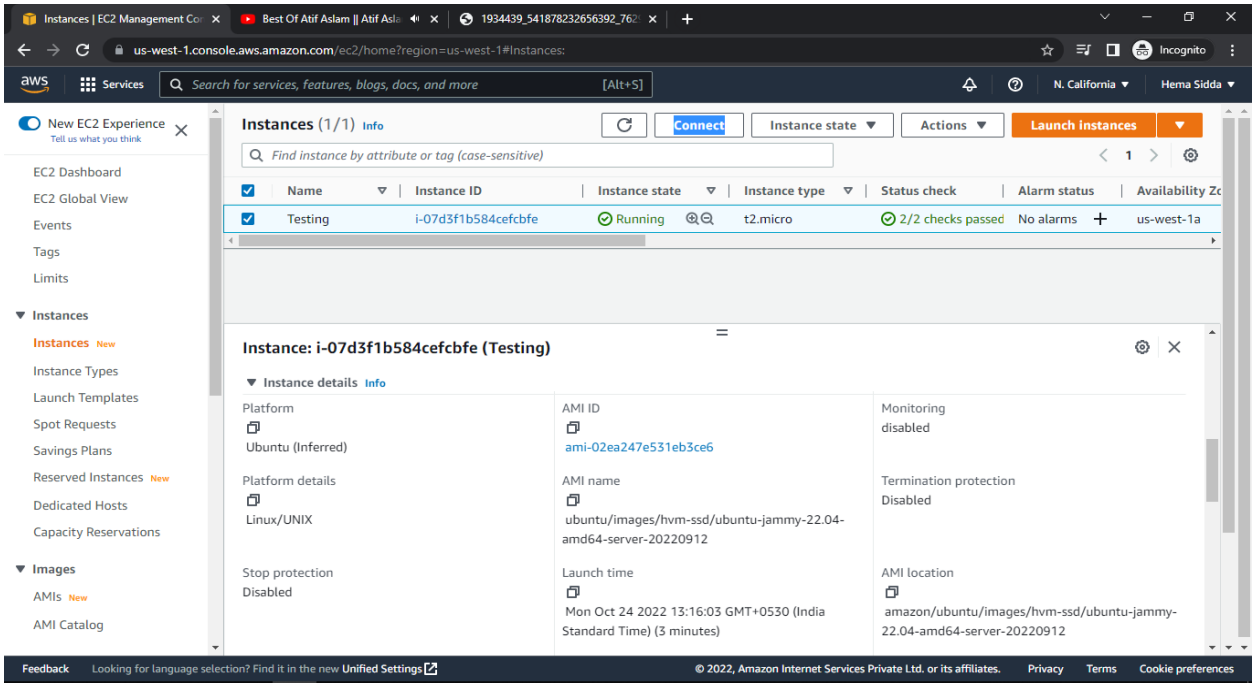
LAB-4

EC2 Instance:

- Create an EC2 instance by using ubuntu operating system with t2.micro instance type and give port SSH(22) at security group.





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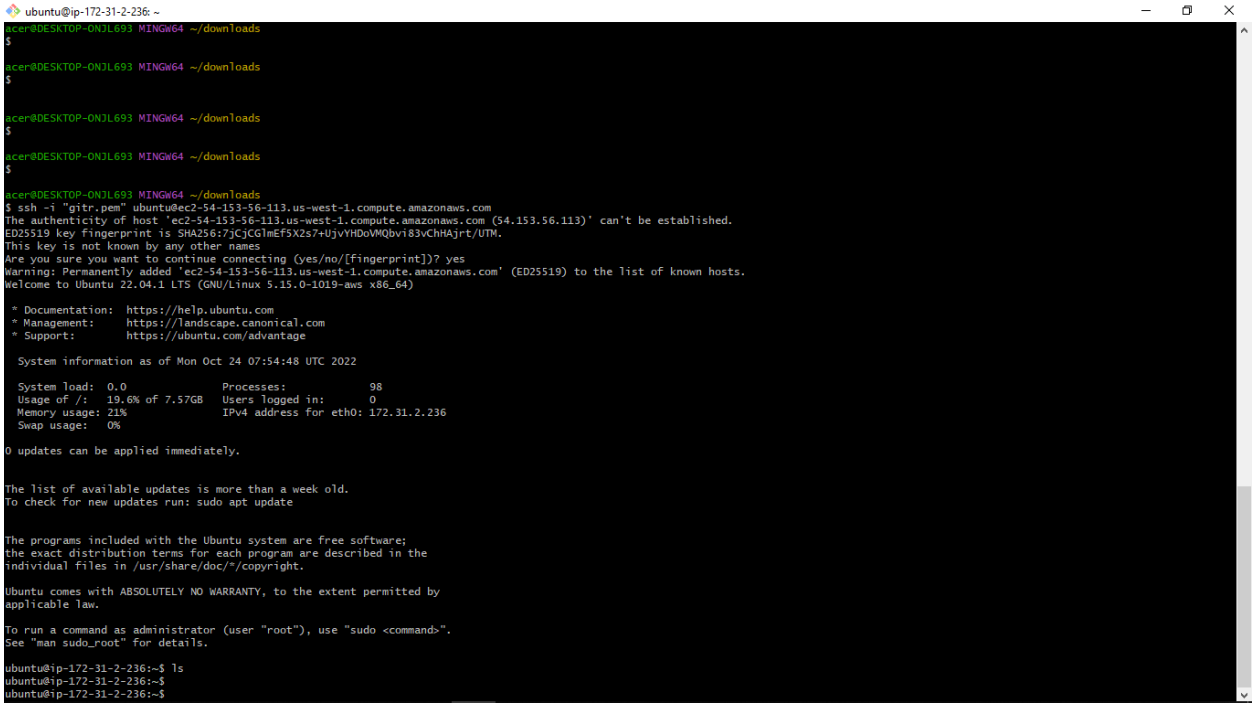
- The above picture shows the instances details.
- Now access the instance from local machine by using git bash ssh software.



- Finally created EC2 instances launched successfully, by using git bash ssh software.

LAB-5

Security Group:

- Create a security group along with port 80 and 22 at inbound rules with name “mynewsg”.

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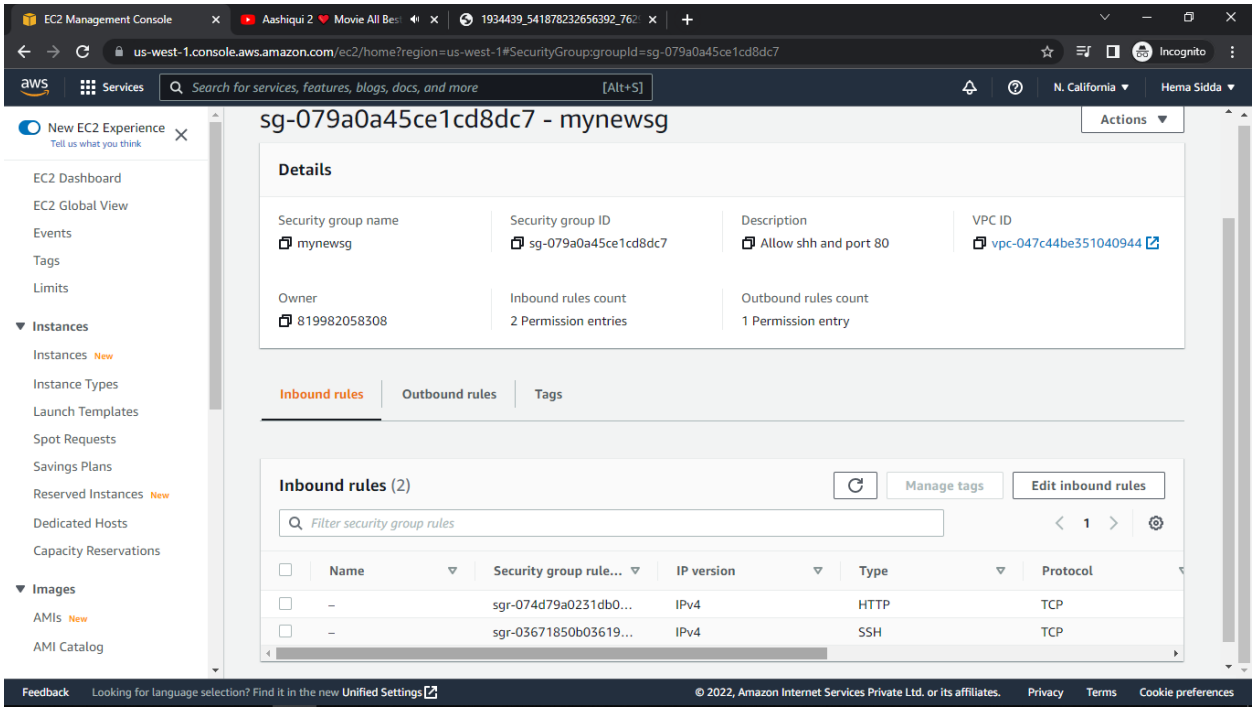
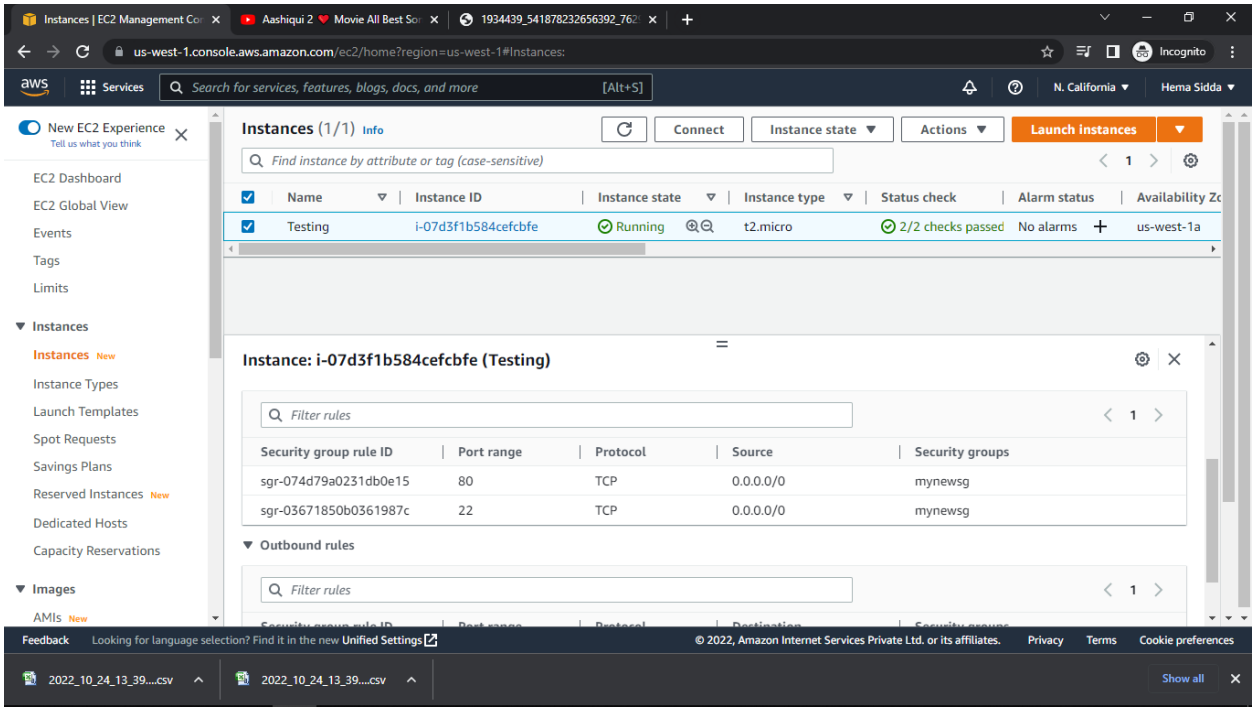


➢ Now attach this created security group to existing Ec2 instance successfully.



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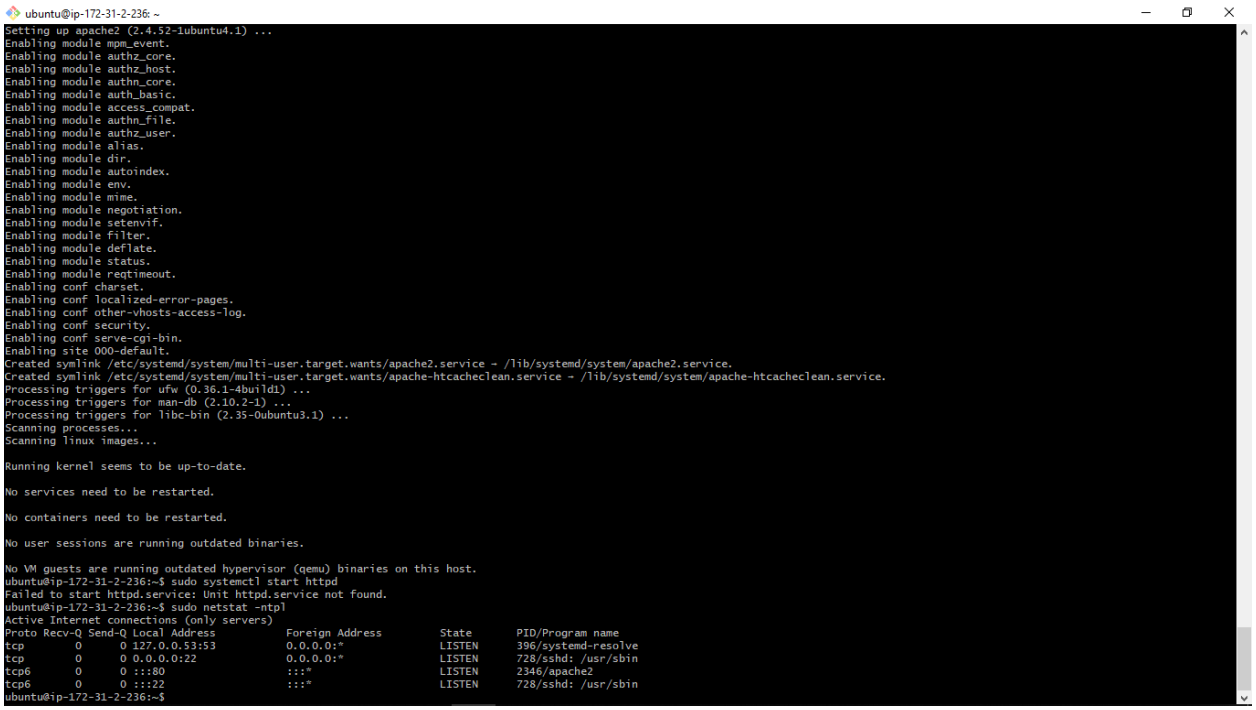
- Now connect the EC2 instances by newly added security group through Git bash ssh software.



LAB-6

Volumes and snapshots:

- Create the volume and Attach this volume to the existing instance.
- First go to the EC2 dashboard and under this dashboard go to at Elastic block Store volumes and select it and open it.

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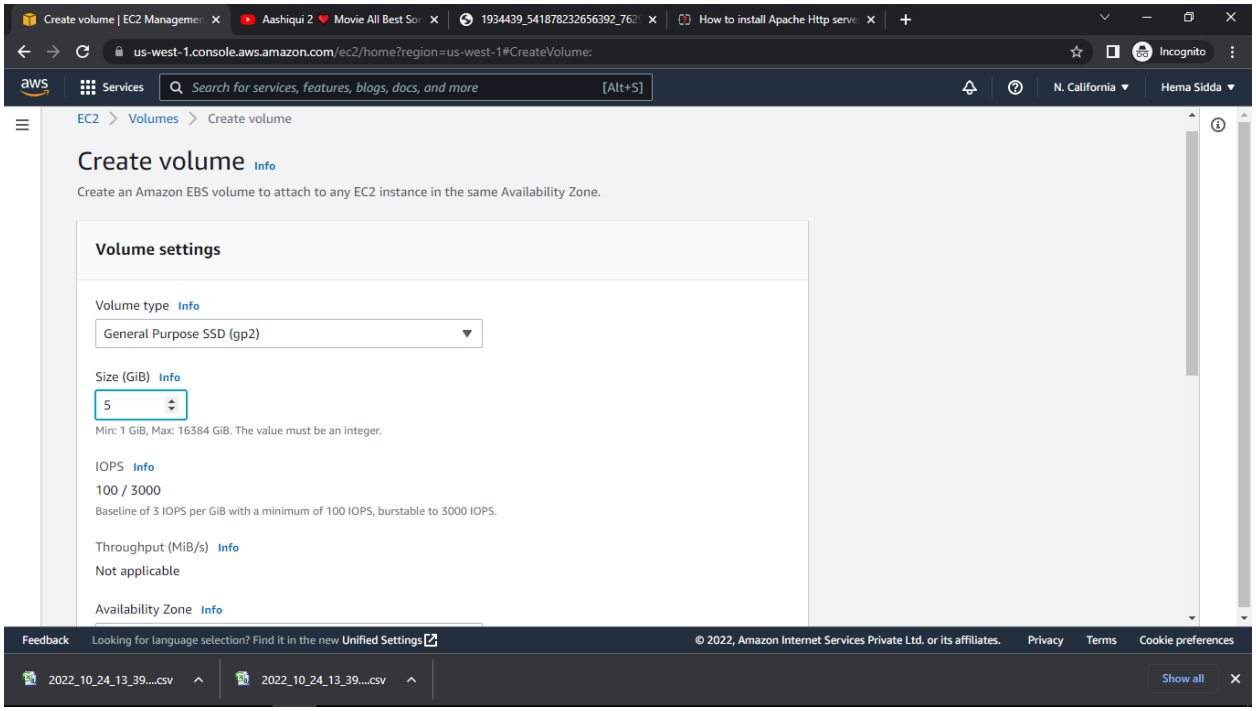
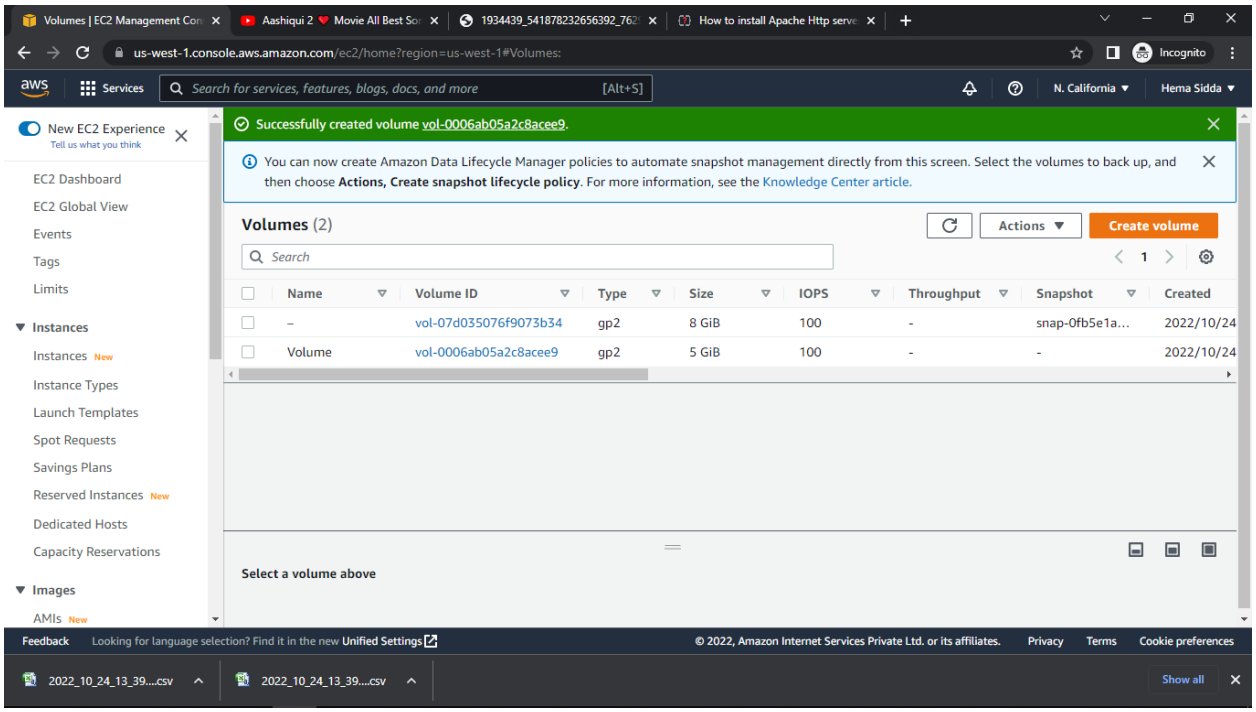


➢ Finally the volume with 5gb is created successfully.



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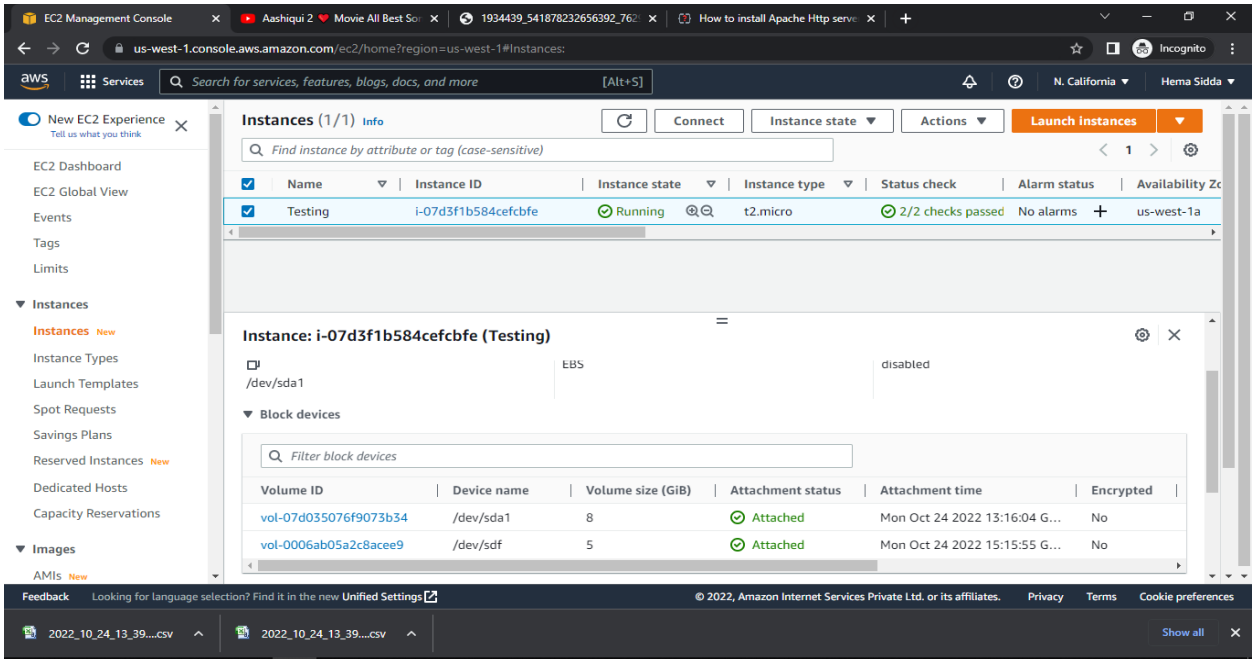
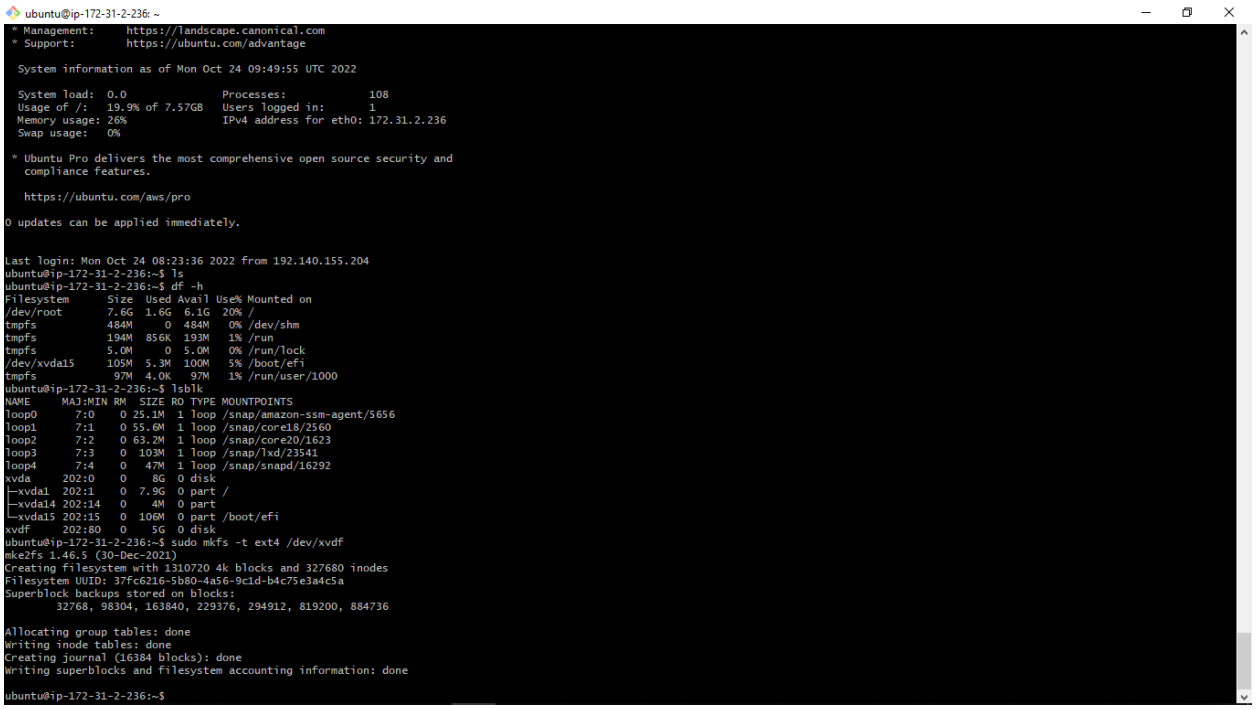
- Now attach this volume to existing EC2 instance.



- Now creating file system for created volume which stored under /dev/ by using command as “sudo mkfs –t ext4 /dev/<volume name>”



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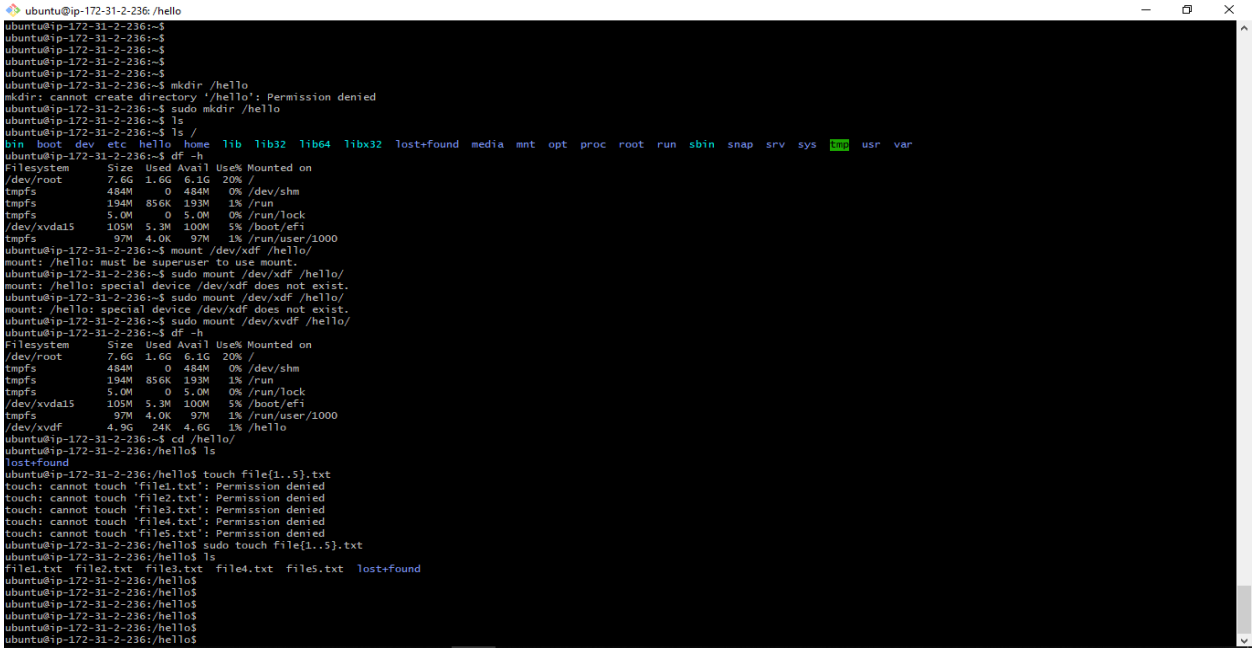
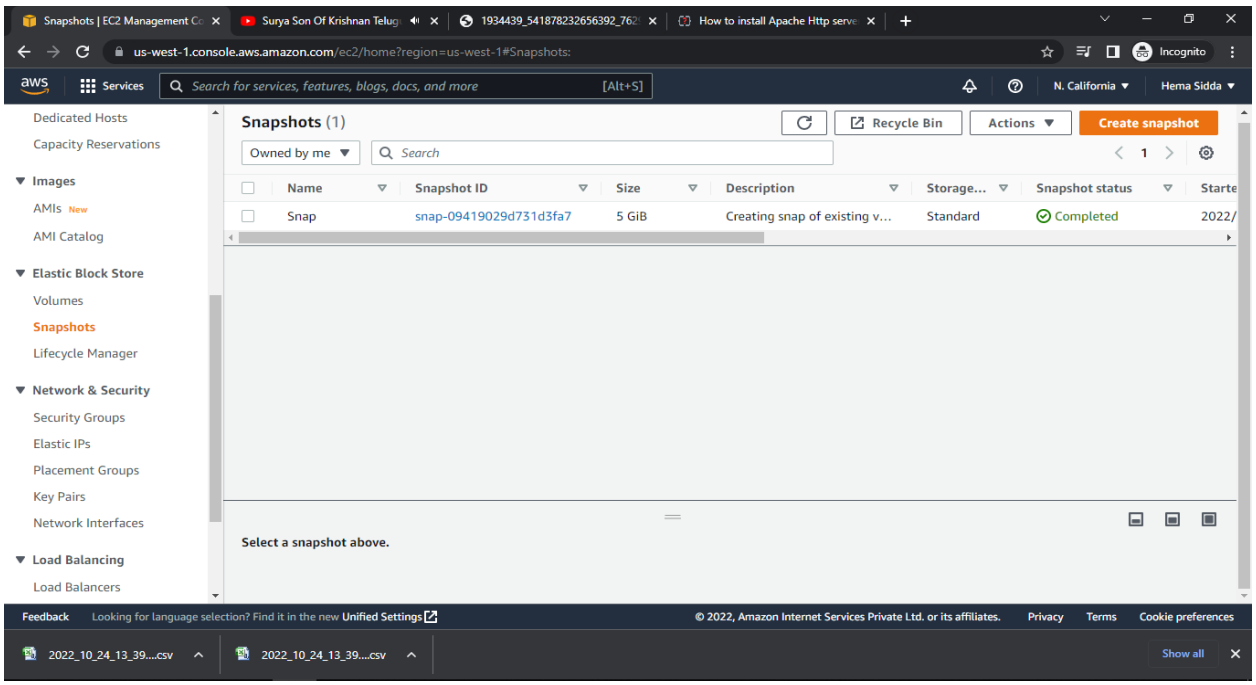
- Now create a empty directory under root for mount the volume to this directory and mount it and create and store the files under root directory which is created.



- Now create a snapshot from created volume and delete volume.



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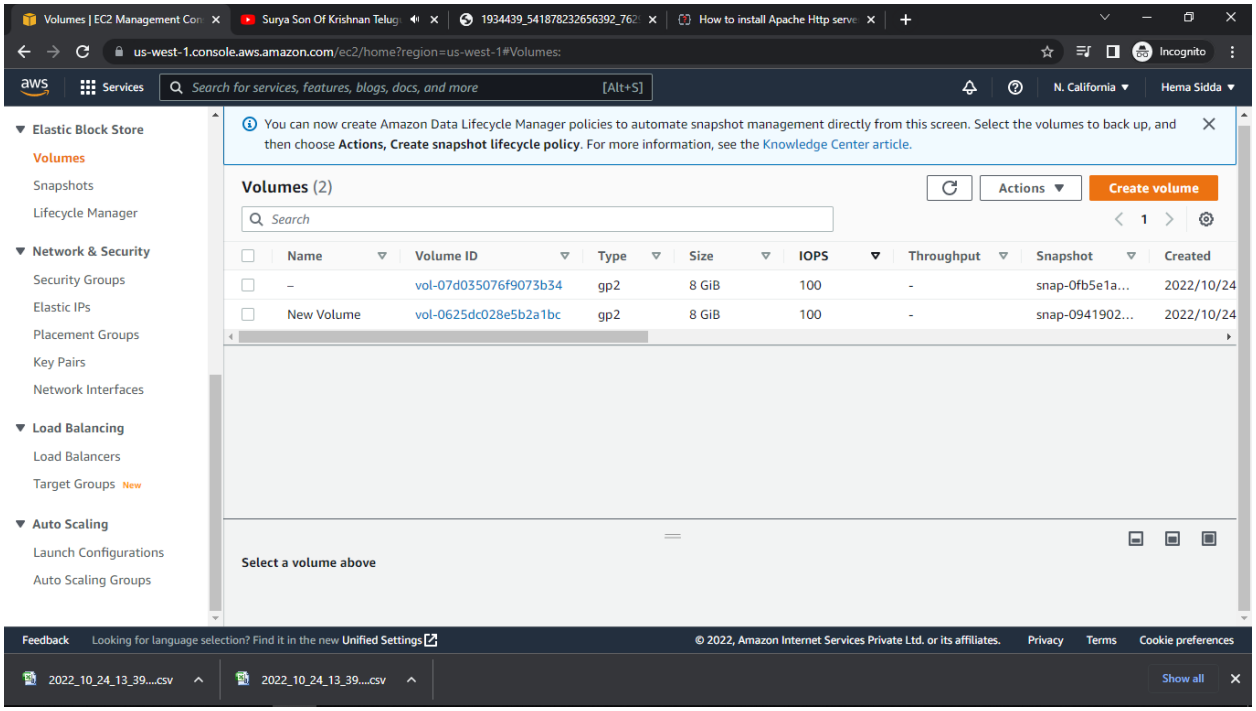
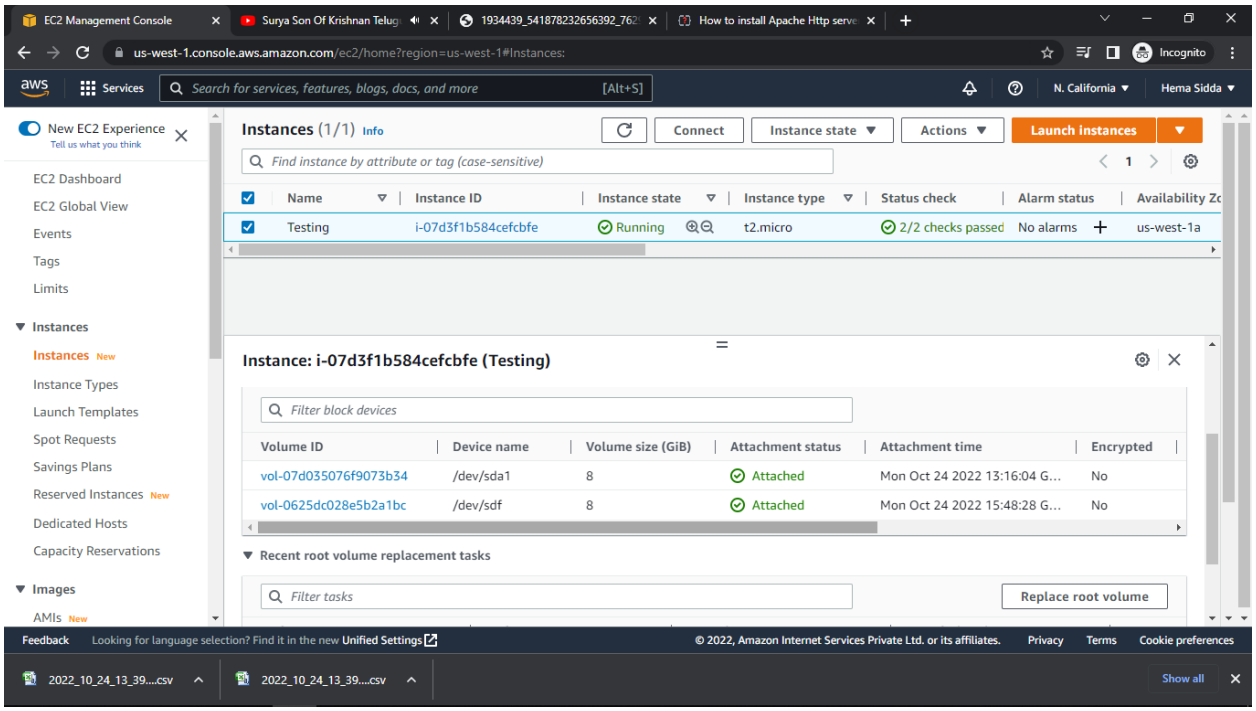
- Now create a volume from snapshot with 8gb volume.



- Now attach this new volume to the existing EC2 instance.



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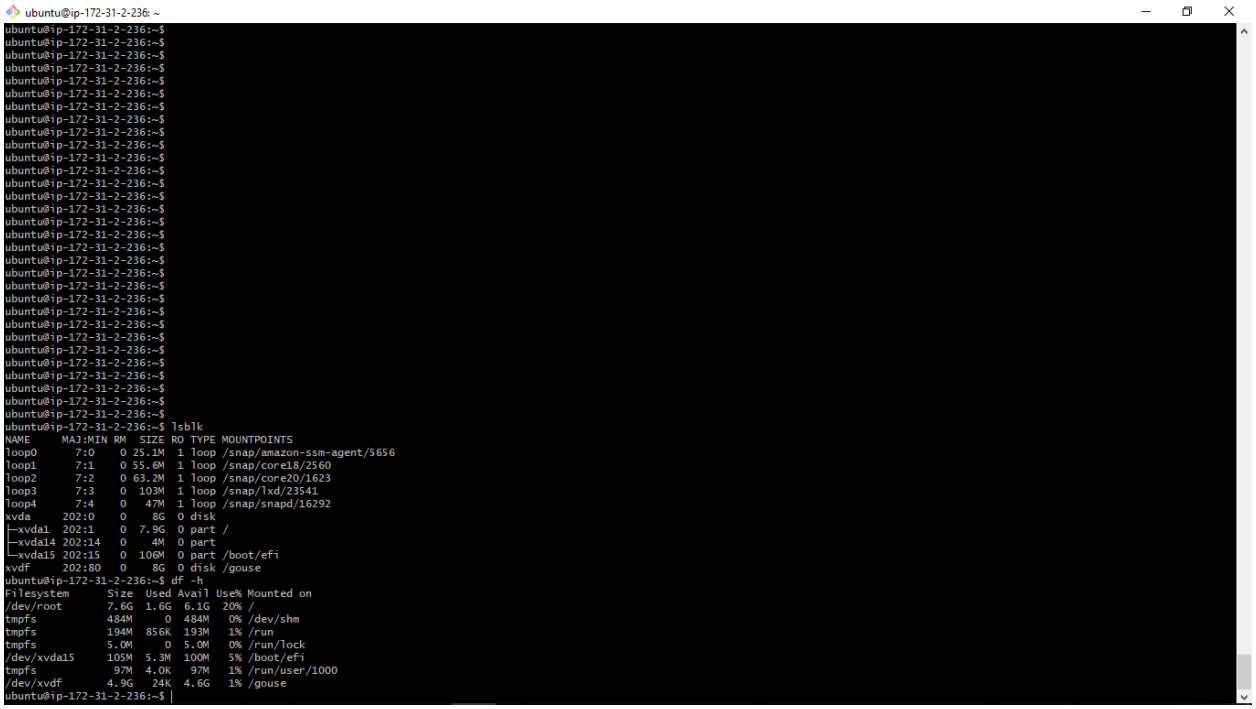
- Now mount this created new volume to the existing instances.



LAB-7

AMI'S:

- Creating an AMI of running instance first go to running instance page and select running instances go to actions and create AMI of running instances.

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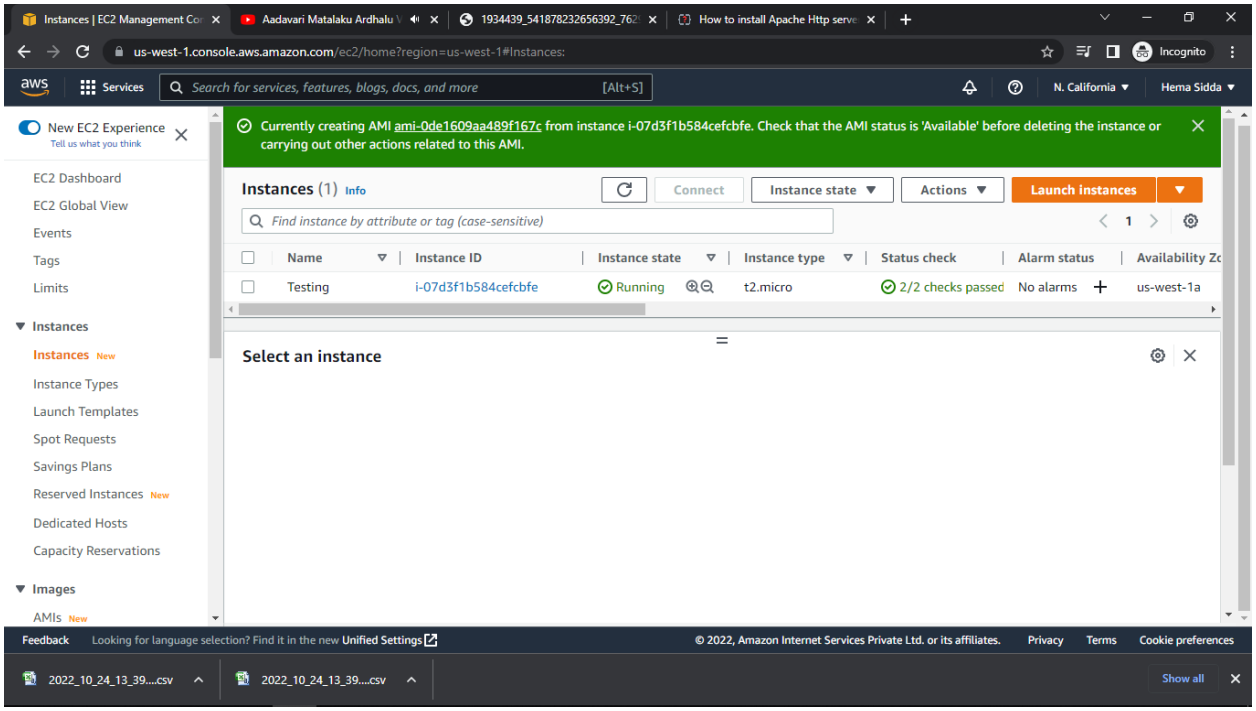
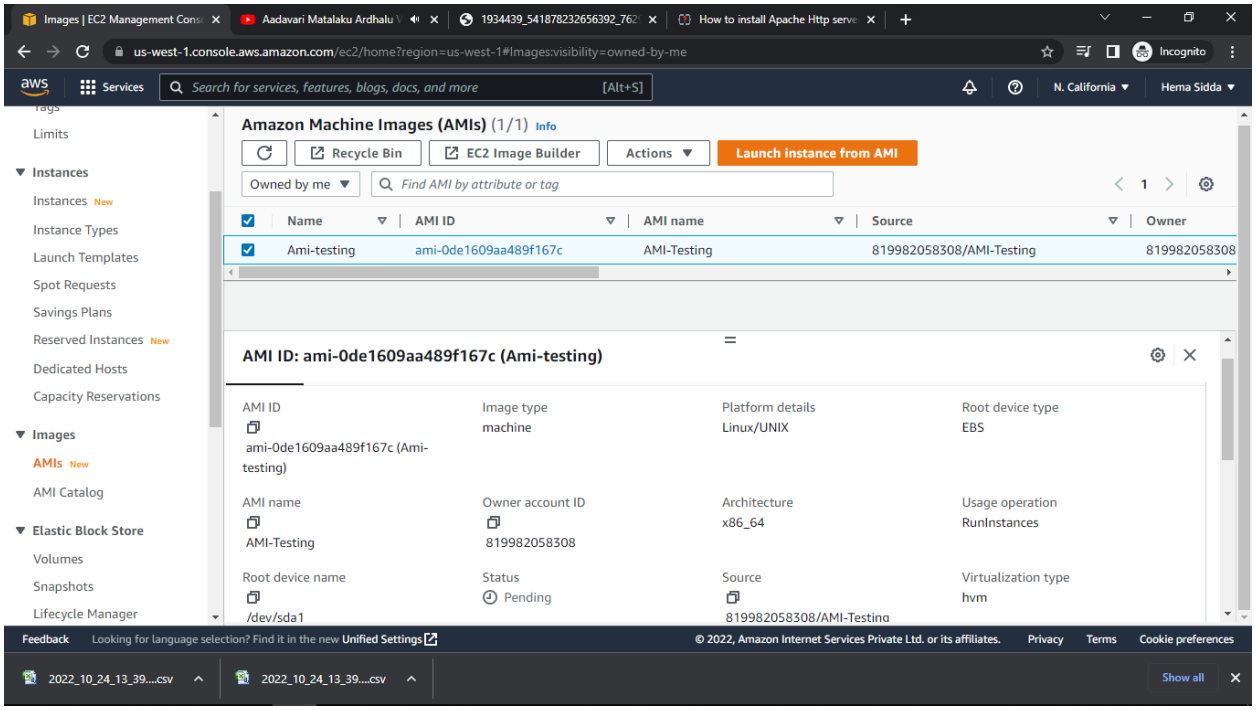


➢ Finally AMI of running instance is created successfully.



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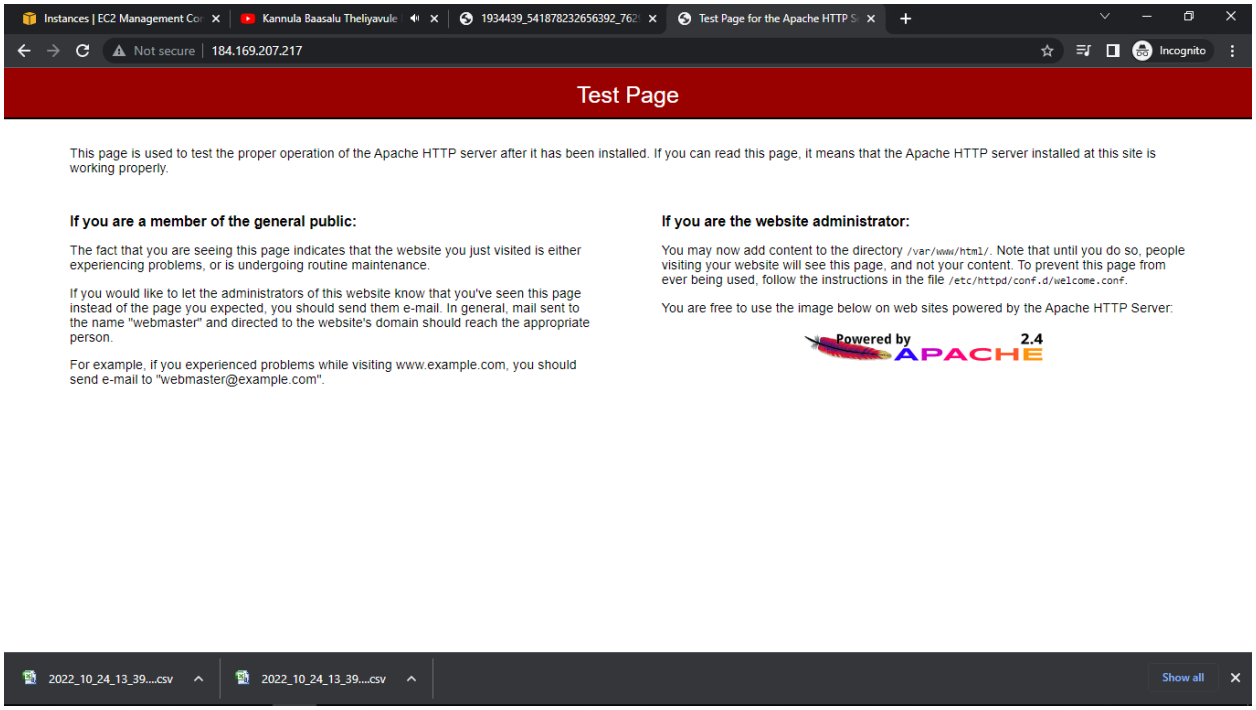
LAB-8

Load Balancer:

- Create two EC2 instances and install nginx server on one machine and httpd apache server on another machine.
- Now show apache server official page by browsing the public ip of instance, which runs on apache server.



- Now show nginx server official page by browsing the public ip of instance, which runs on nginx server.

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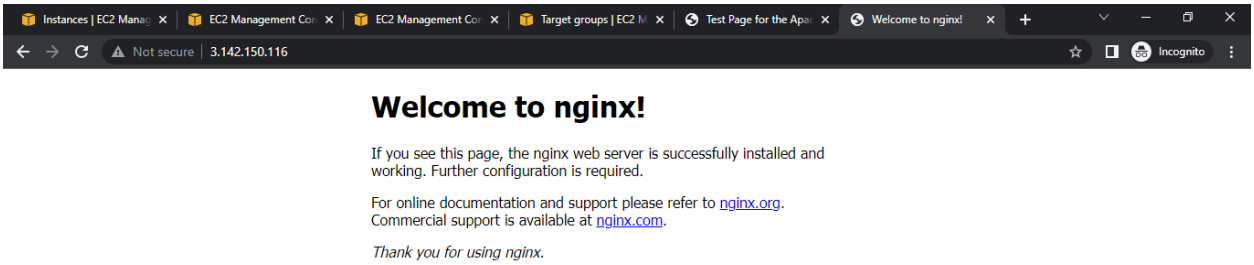
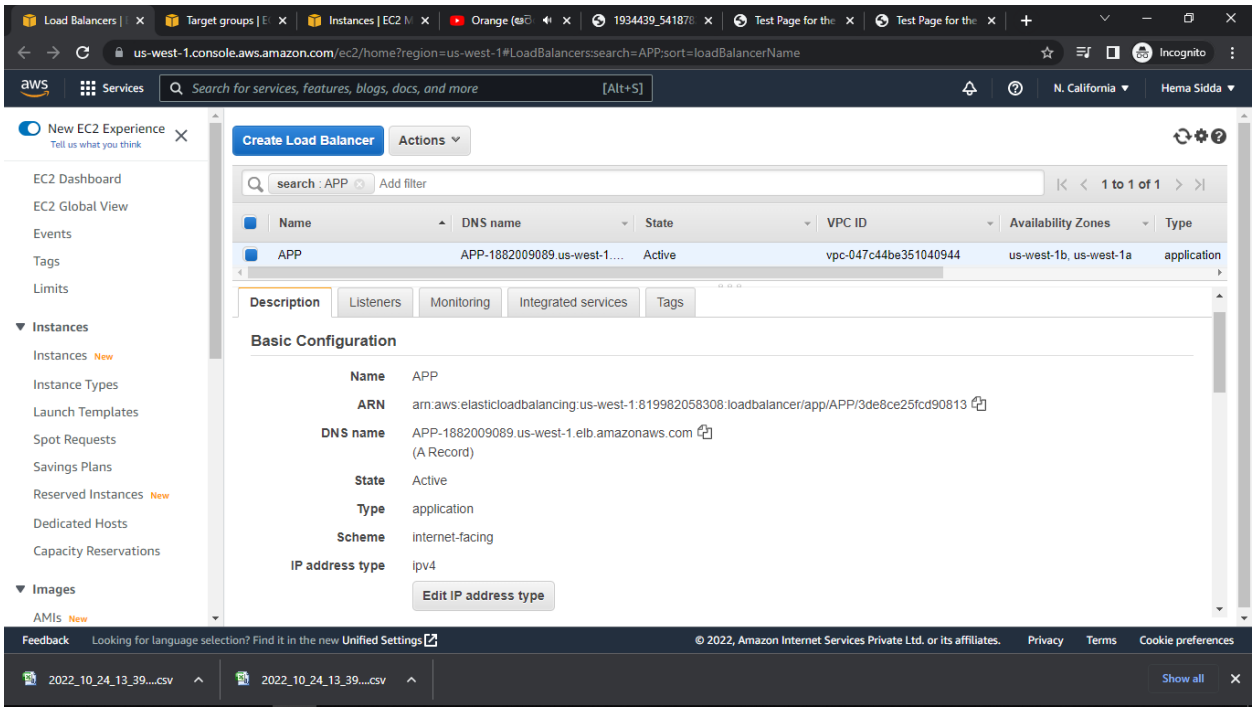


➢ Now create an Network Load Balancer and attach two EC2 instances to this Load Balancer.



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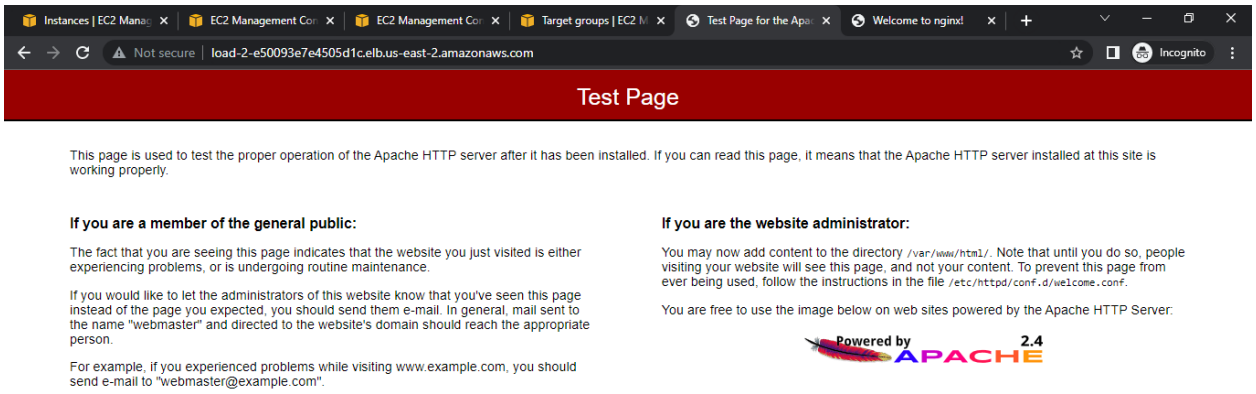
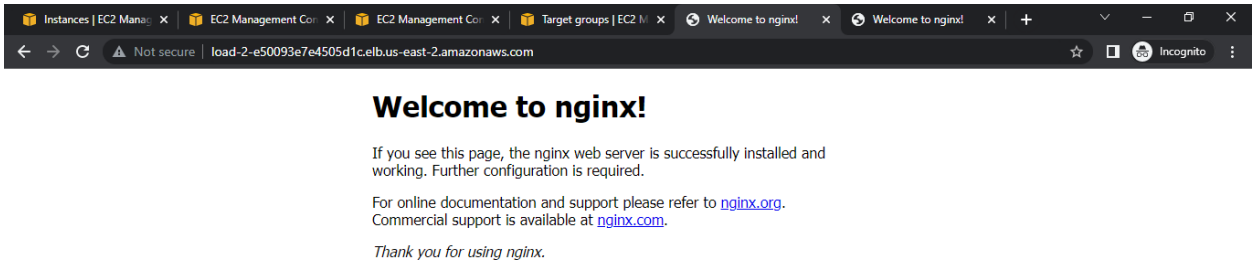
- Now go to Load Balancer under details select DNS copy it and past it in browser and reload the page.



- Again reload the page it shows the another web server official page.



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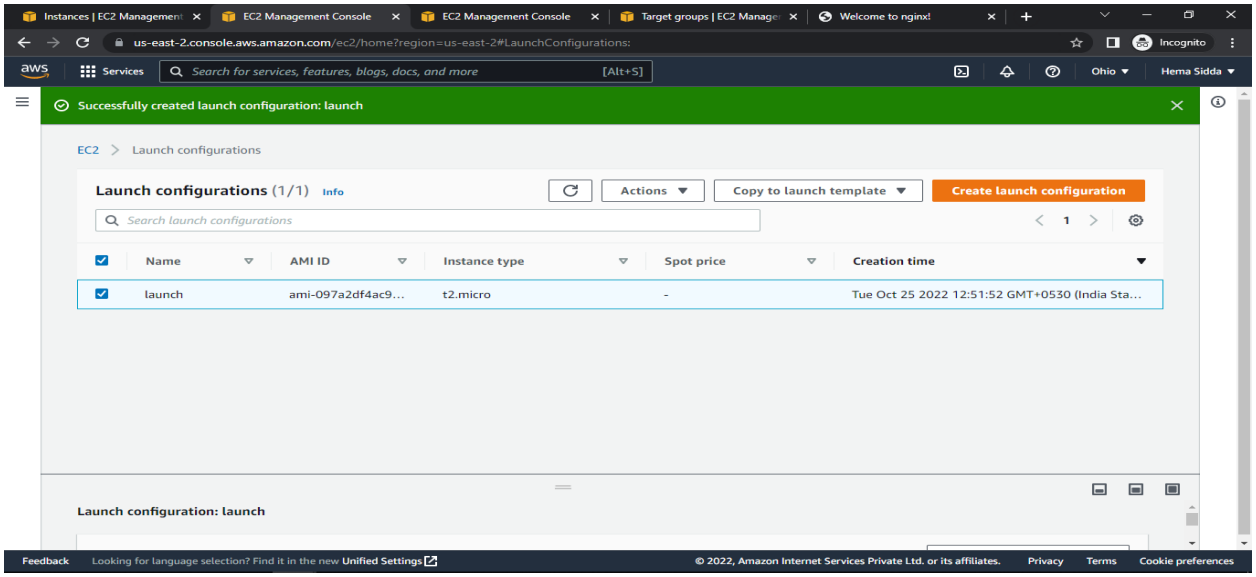
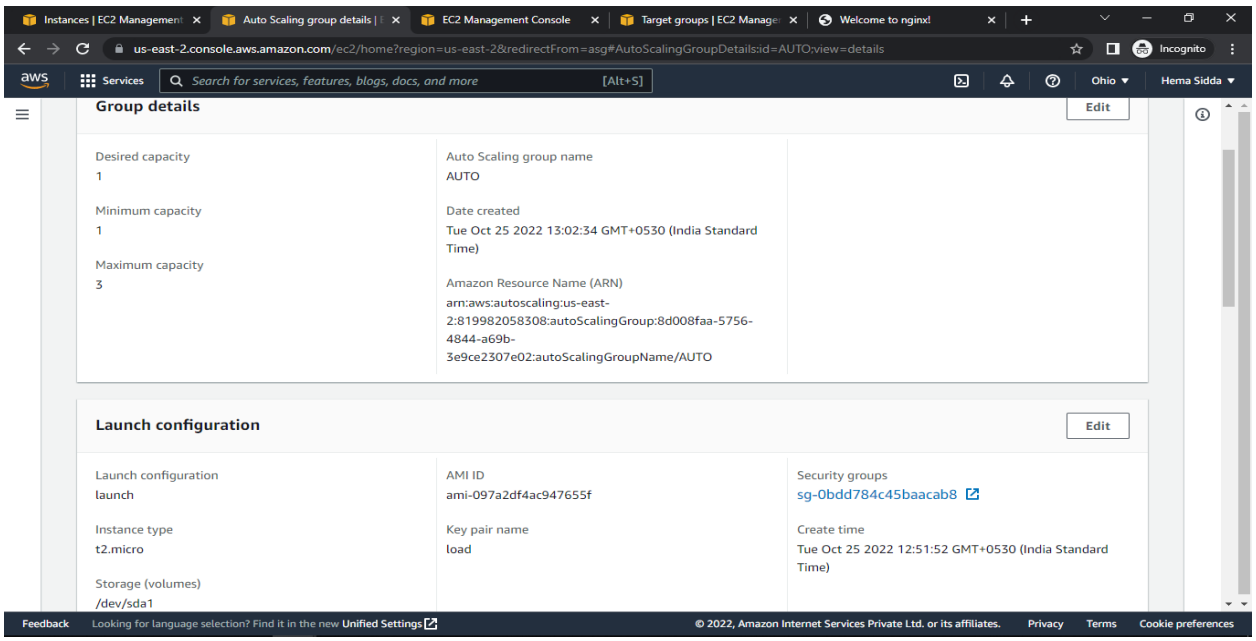
LAB-9

ASG & LC:

- Create one launch configuration with ubuntu server.



- Create Auto Scaling Group and attach the launch configuration which is created newly(launch).



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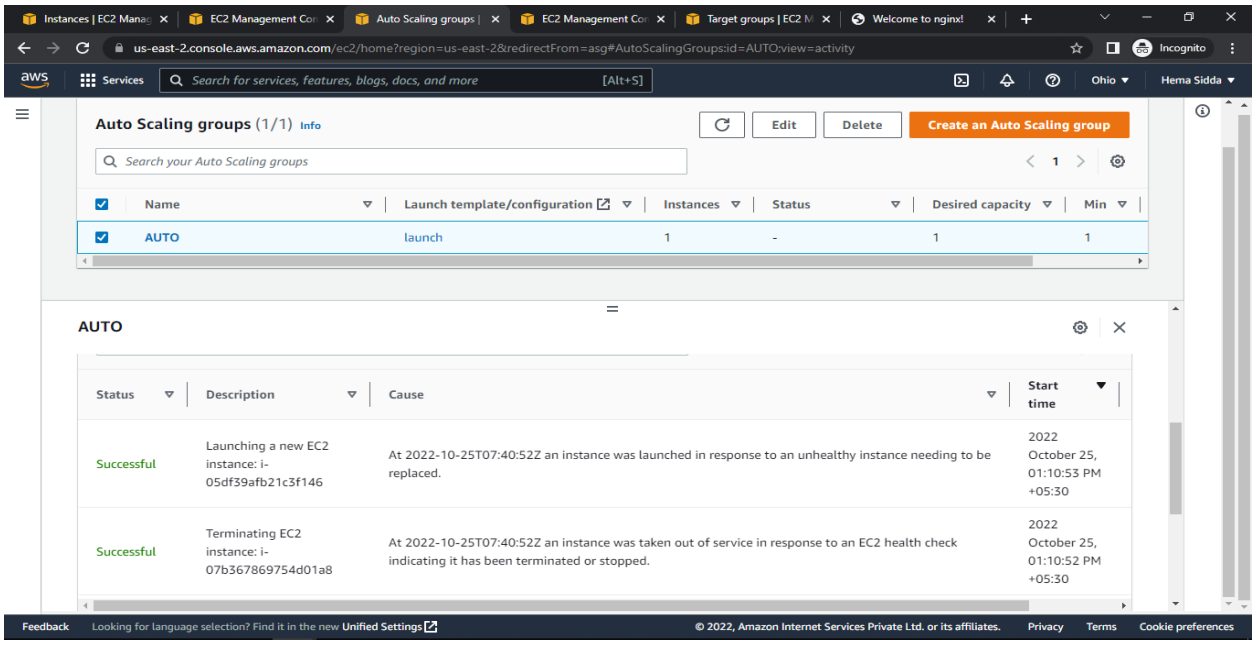
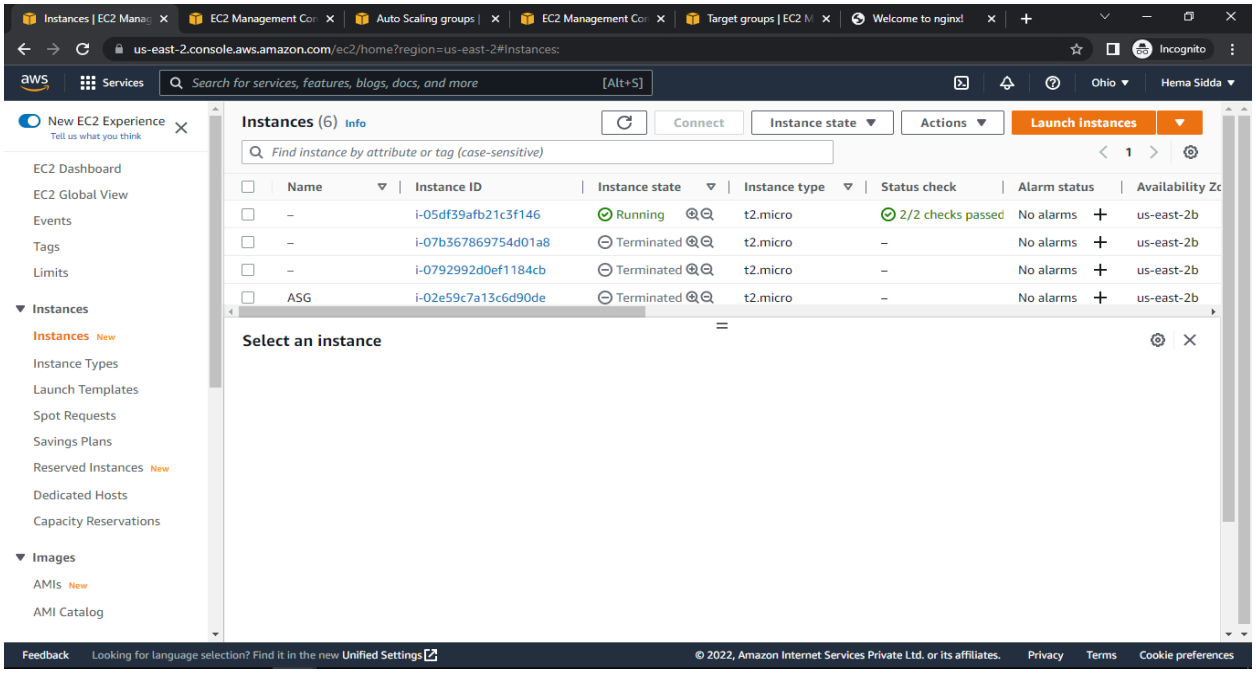
- Now I delete the created virtual server and the auto scaling group replace or re-generate the deleted server.



- Finally the auto scaling group replace the virtual server which one is deleted before or recently.



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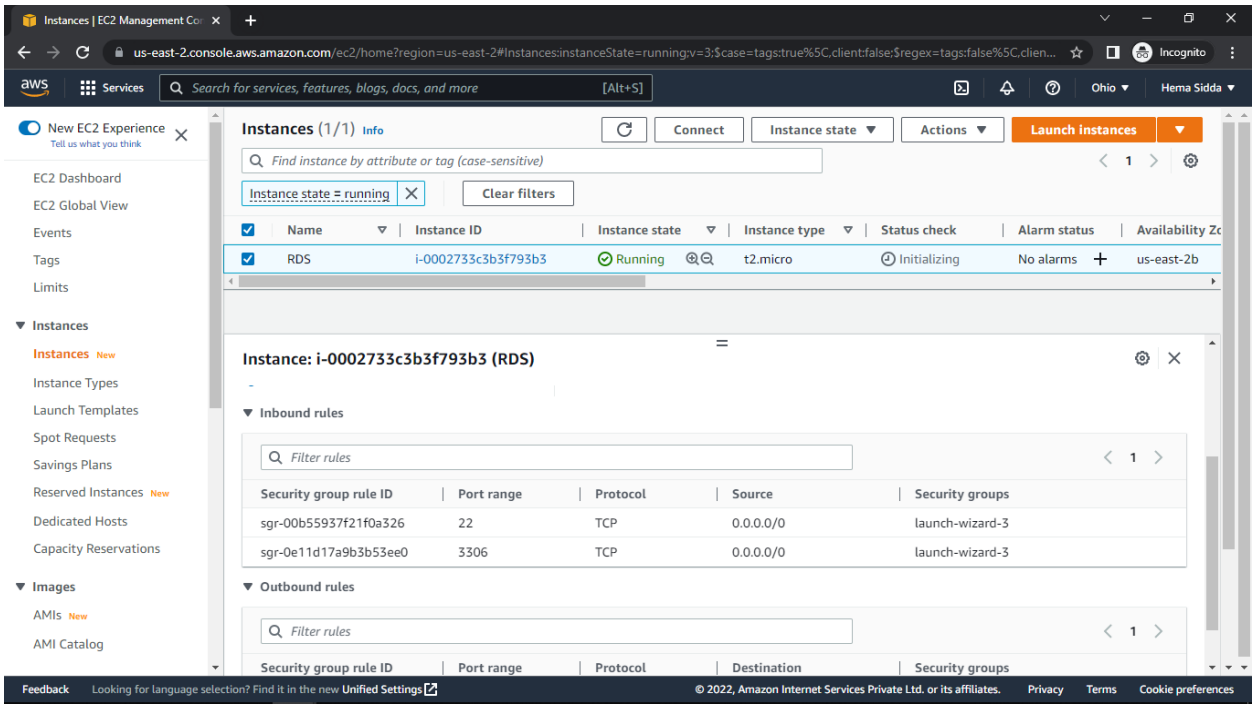
LAB-10

RDS:

- First create an EC2 instance in private subnet and give the port 3306 mysql/aurora at security group.



- Now go to RDS service and create the mysql(3306) database.

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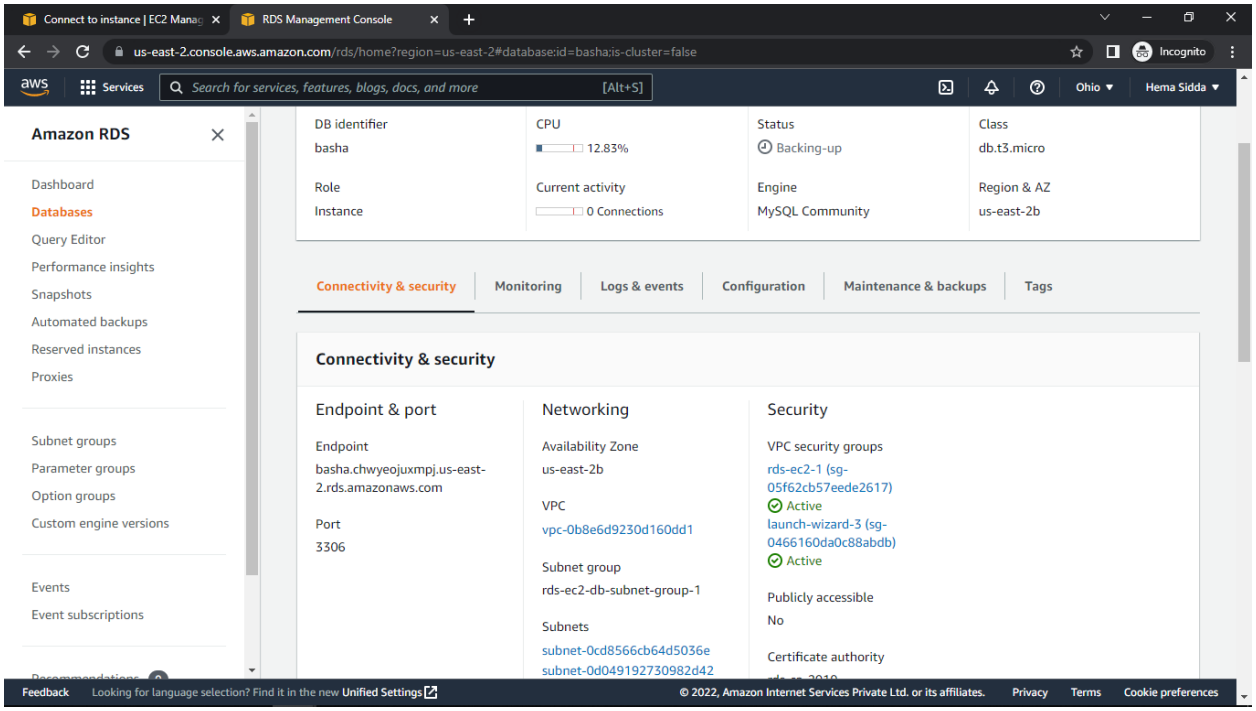
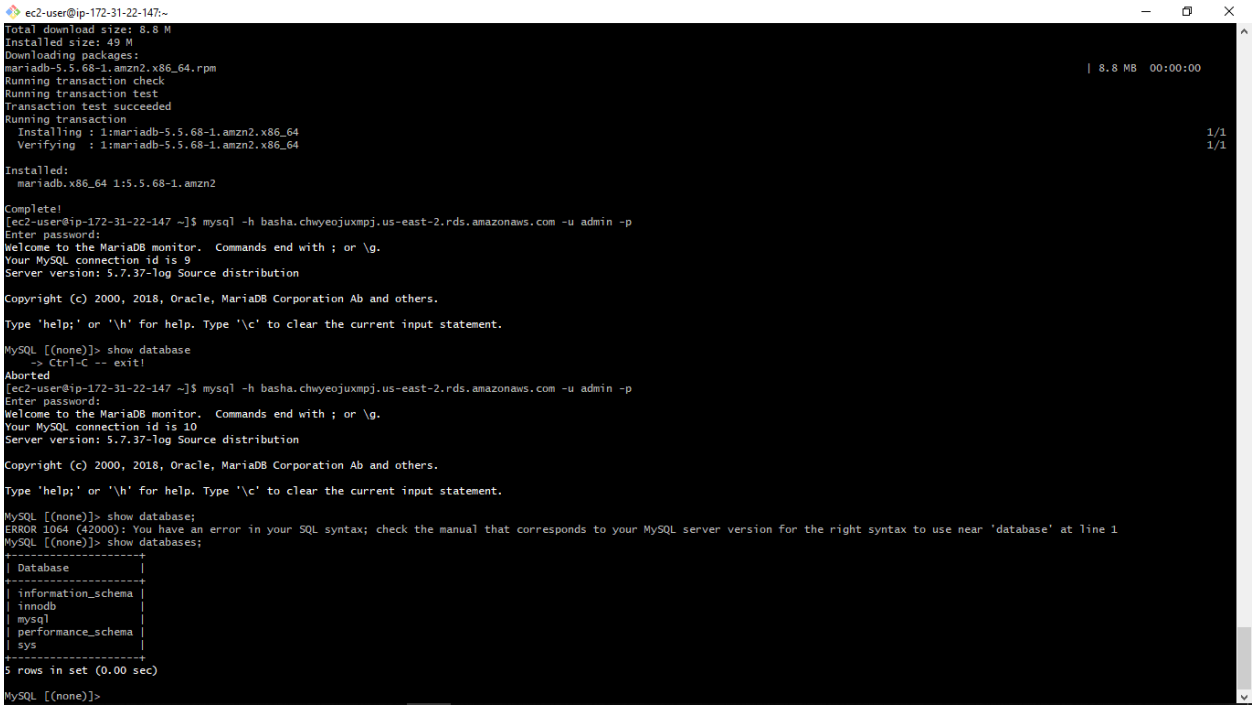


- Finally access the created RDS database from created virtual machine or EC2 instance by using command as “mysql –h endpoint –u username -p”.



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AMAZON WEB SERVICES

THE END

SHAIK.GOUSE RABBANI