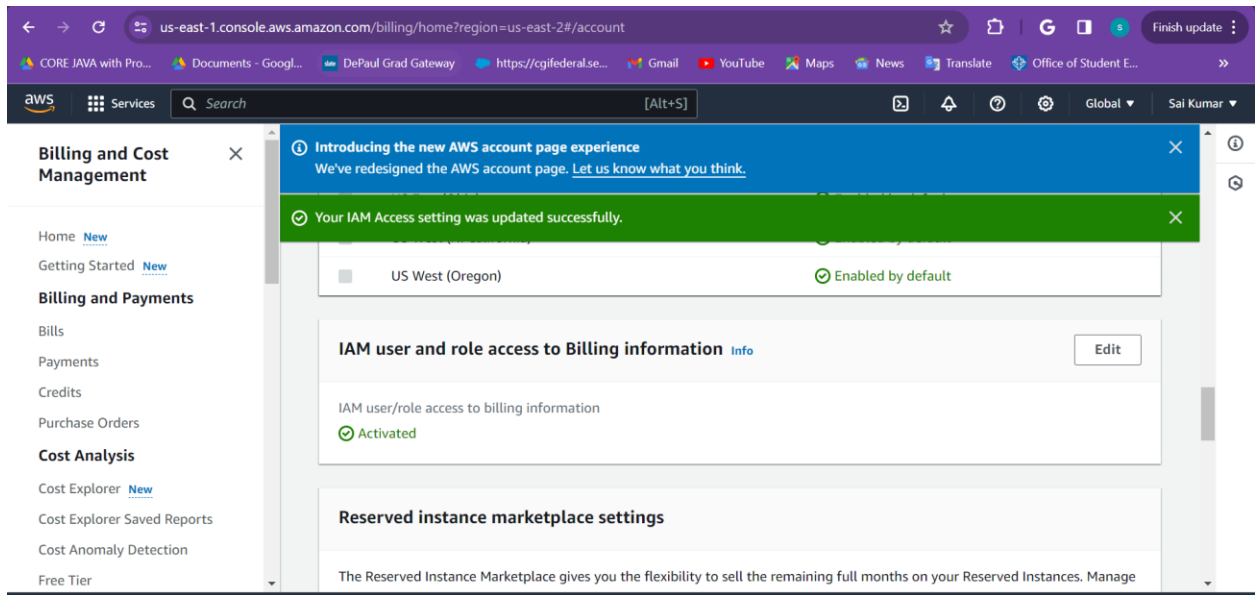
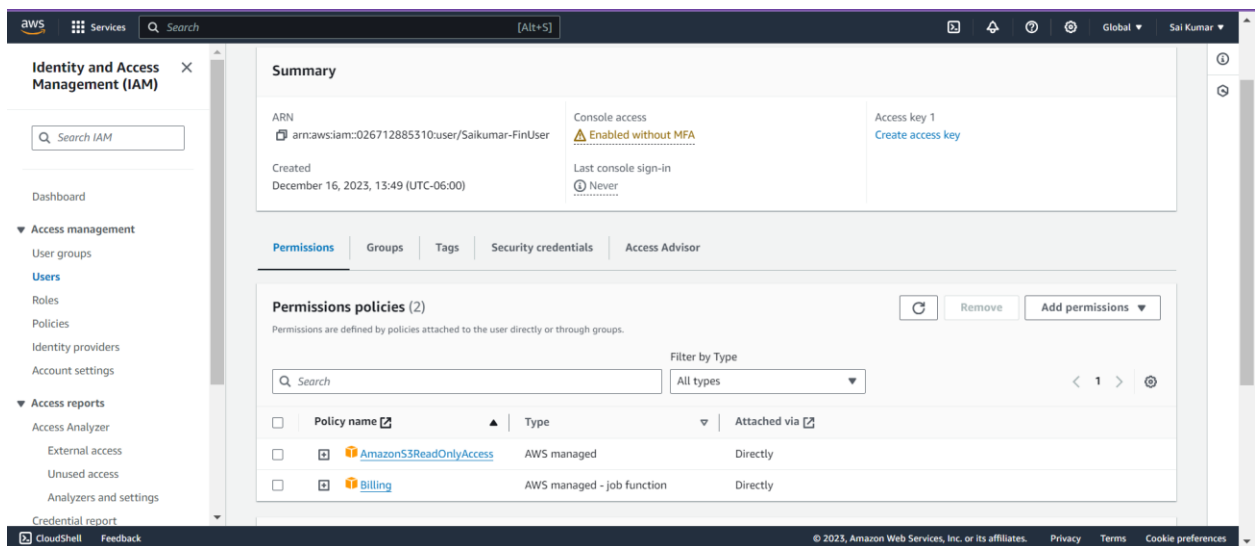


Part 1

1. Grant access to IAM user and role access to billing information.



2. FinUser created.



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3. AirlineUser created.

The screenshot shows the AWS IAM console interface. The left sidebar contains the navigation menu with sections like Dashboard, Access management, Access reports, and Credential report. The main content area displays the details for the user 'AirlineUser' (ARN: arn:aws:iam::026712885310:user/Saikumar-AirlineUser). It shows that console access is 'Enabled without MFA' and the last console sign-in was 'Never'. Under the 'Permissions' tab, there is one policy attached: 'AmazonS3FullAccess', which is AWS managed and attached directly. The 'Permissions boundary' is set to '(not set)'.

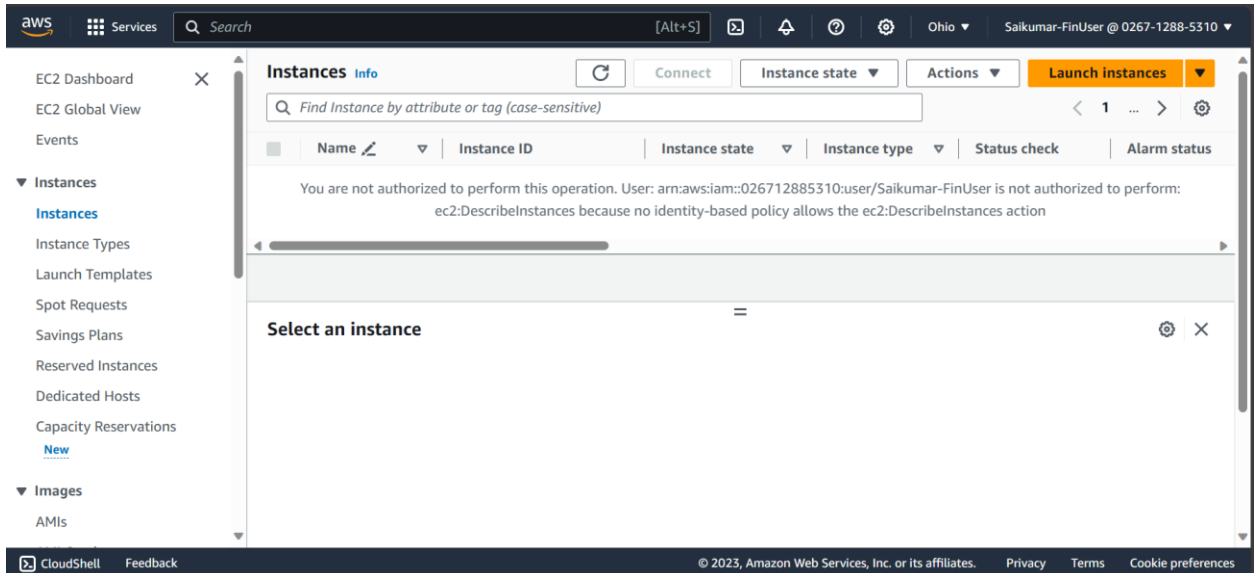
4. ITUser created.

The screenshot shows the AWS IAM console interface for the user 'ITUser' (ARN: arn:aws:iam::026712885310:user/Saikumar-ITUser). It shows that console access is 'Enabled without MFA' and the last console sign-in was 'Never'. Under the 'Permissions' tab, there are two policies attached: 'AmazonEC2FullAccess' and 'AmazonS3FullAccess', both of which are AWS managed and attached directly. The 'Permissions boundary' is set to '(not set)'.

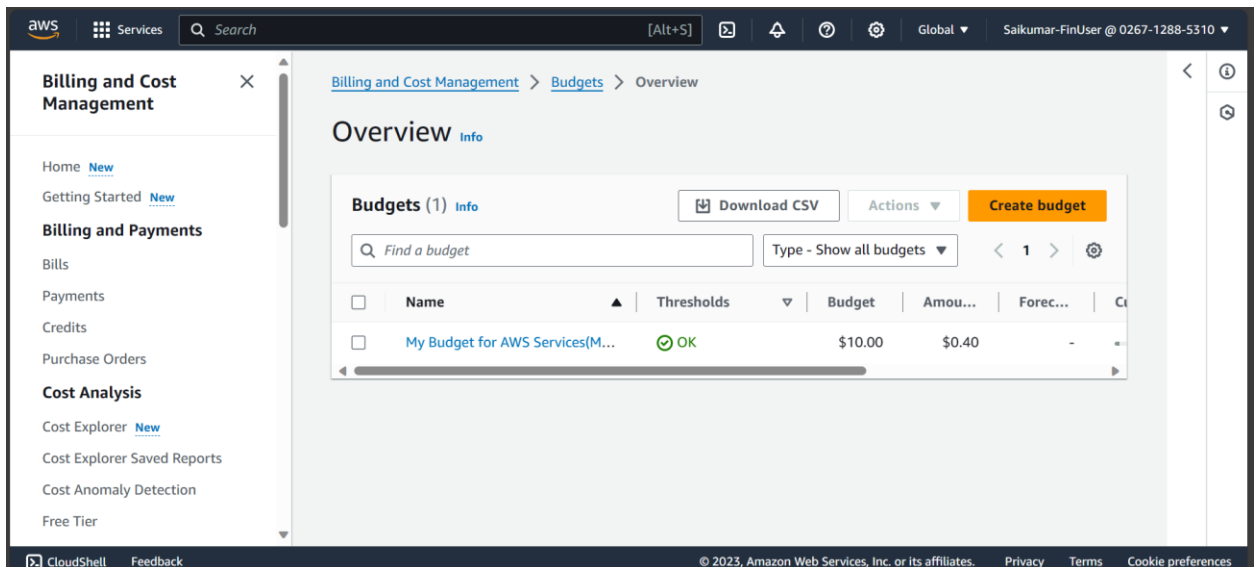
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- i. FinUser is not able to see the instances EC2.



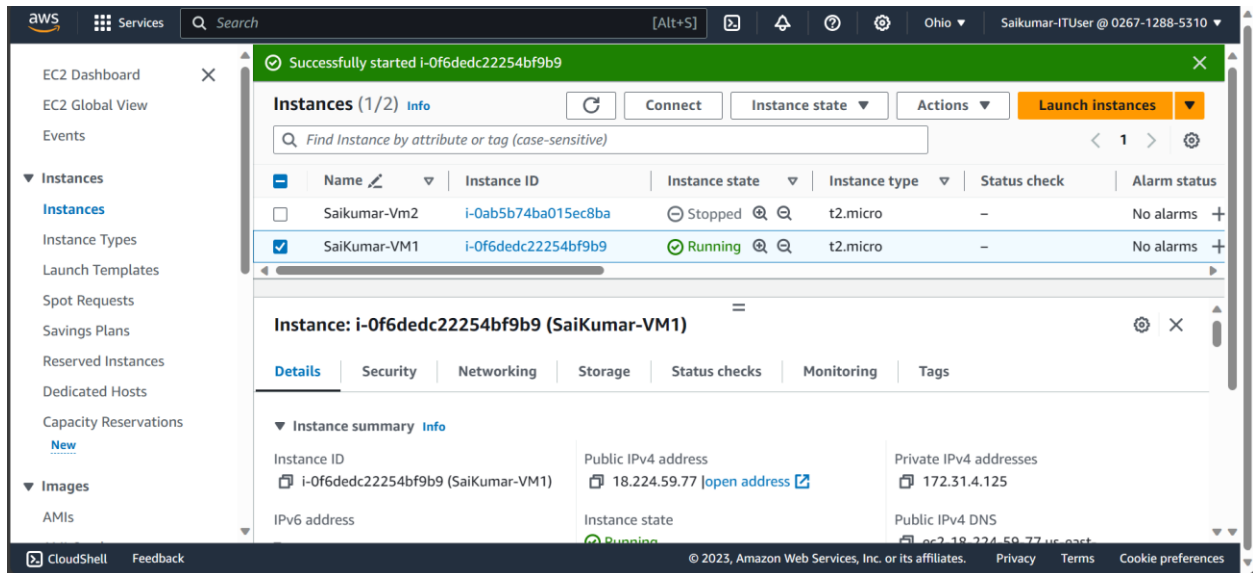
- ii. Billing is seen by FinUser.



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iii. ITUsers are able to see the instances.



The screenshot displays the AWS Management Console interface for the EC2 service. A green notification banner at the top indicates that the instance 'i-0f6dedc22254bf9b9' was successfully started. Below this, the 'Instances (1/2)' section shows a table with two instances. The first instance, 'Saikumar-Vm2', is in a 'Stopped' state. The second instance, 'SaiKumar-VM1', is in a 'Running' state. The details for 'SaiKumar-VM1' are expanded, showing its Instance ID, Public IPv4 address (18.224.59.77), Private IPv4 address (172.31.4.125), and Instance state (Running).

Name	Instance ID	Instance state	Instance type	Status check	Alarm status
Saikumar-Vm2	i-0ab5b74ba015ec8ba	Stopped	t2.micro	-	No alarms
SaiKumar-VM1	i-0f6dedc22254bf9b9	Running	t2.micro	-	No alarms

Instance: i-0f6dedc22254bf9b9 (SaiKumar-VM1)

Details | Security | Networking | Storage | Status checks | Monitoring | Tags

Instance summary Info

Instance ID: i-0f6dedc22254bf9b9 (SaiKumar-VM1)

Public IPv4 address: 18.224.59.77 [Open address](#)

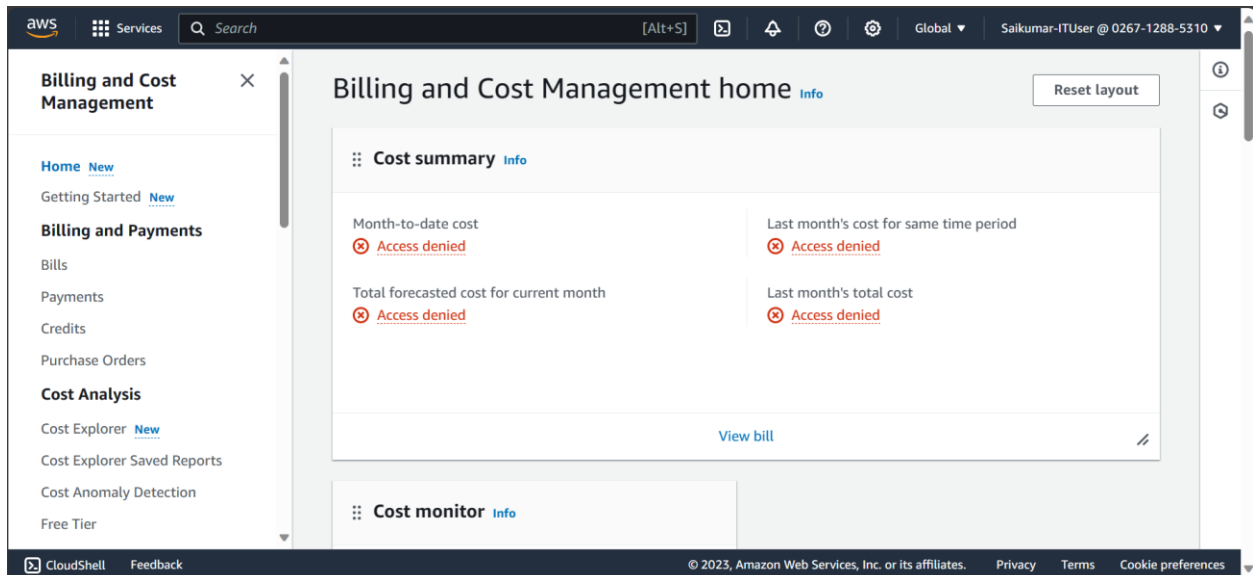
Private IPv4 addresses: 172.31.4.125

IPv6 address: [Redacted]

Instance state: Running

Public IPv4 DNS: [Redacted]

iv. Billing and Cost Management.



The screenshot shows the AWS Billing and Cost Management console. The 'Billing and Cost Management home' page displays a 'Cost summary' section with four metrics: Month-to-date cost, Last month's cost for same time period, Total forecasted cost for current month, and Last month's total cost. All four metrics are marked as 'Access denied'. A 'View bill' button is visible at the bottom of the cost summary section.

Billing and Cost Management home Info

Cost summary Info

Month-to-date cost: Access denied

Last month's cost for same time period: Access denied

Total forecasted cost for current month: Access denied

Last month's total cost: Access denied

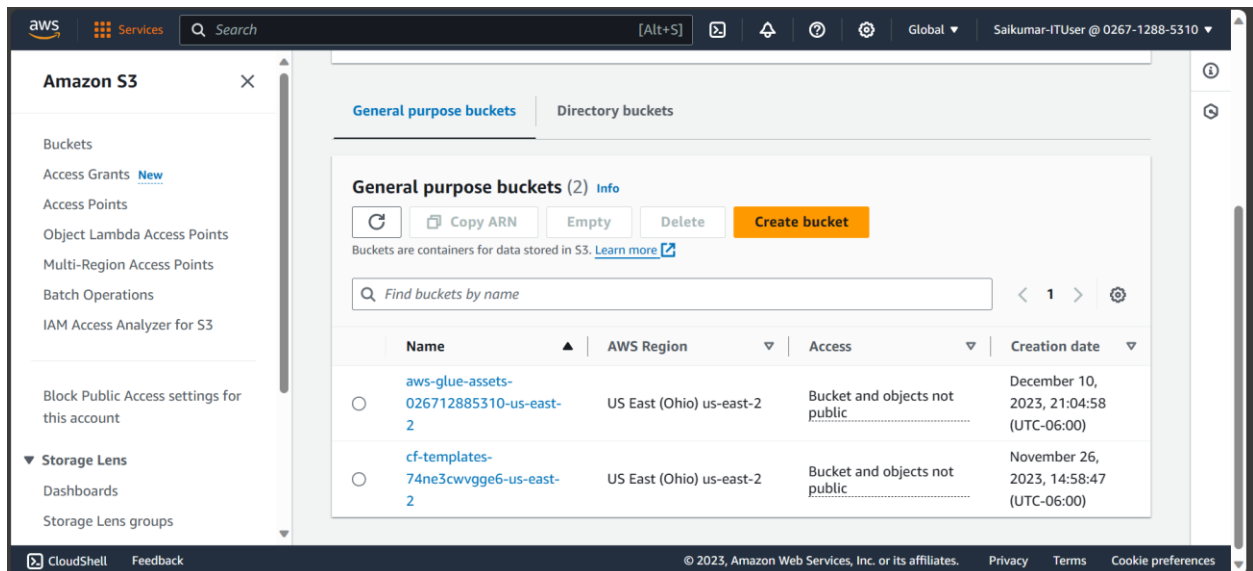
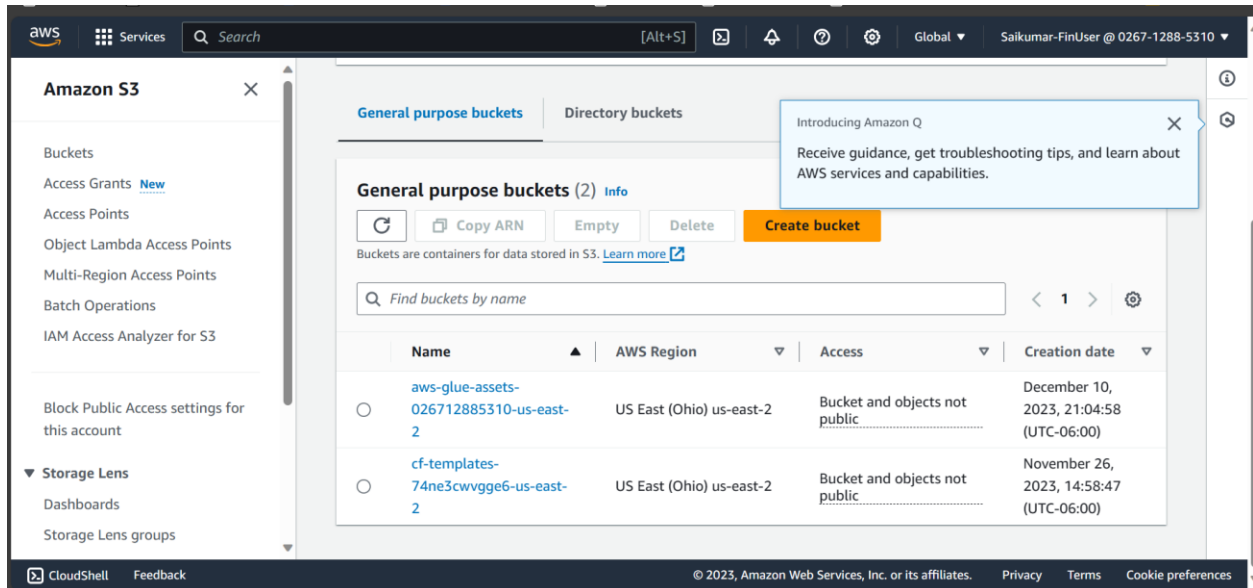
[View bill](#)

Cost monitor Info

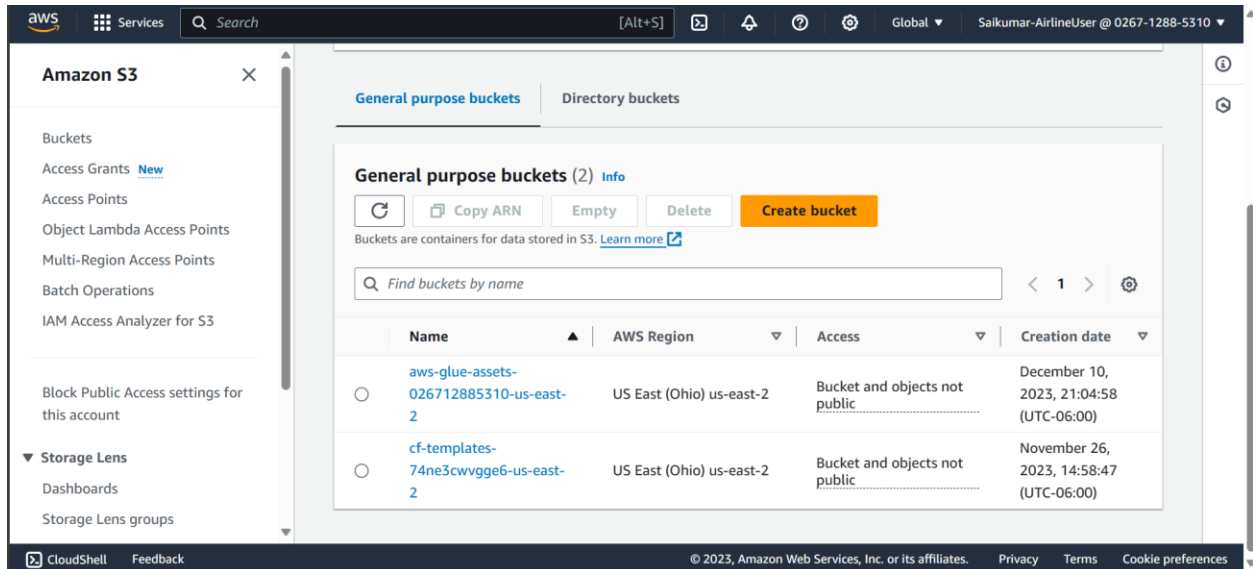
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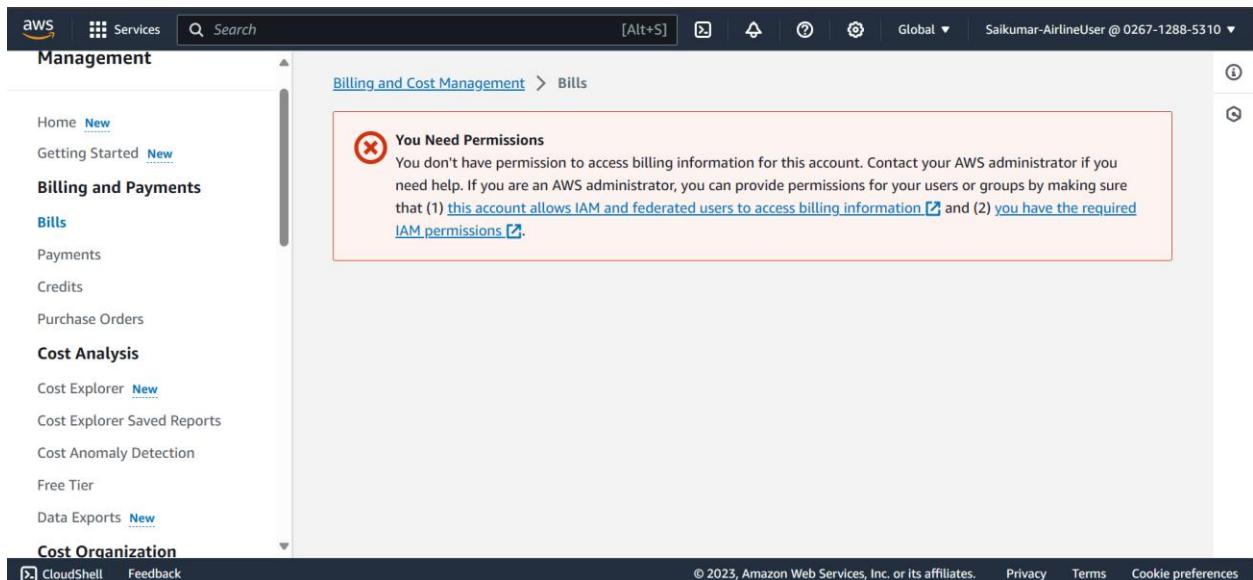
v. IT user and Fin user both are able to access the S3.



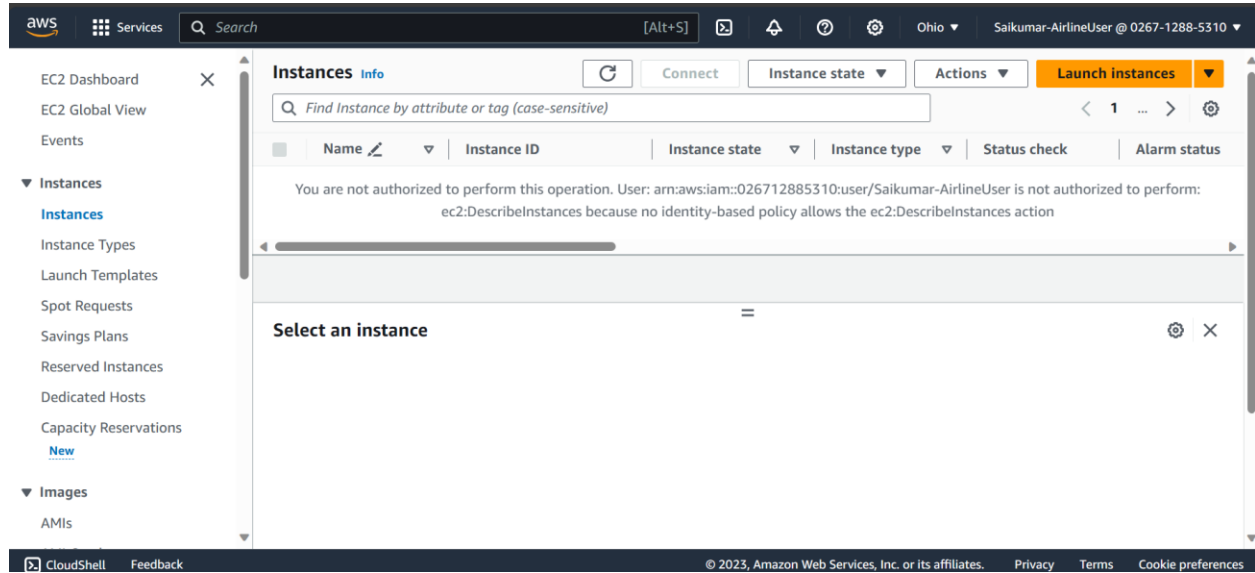
vi. AirlinesUser can access the S3 bucket.



Airline user is not able to access.



AirlineUser is not able to access the Ec2 user.

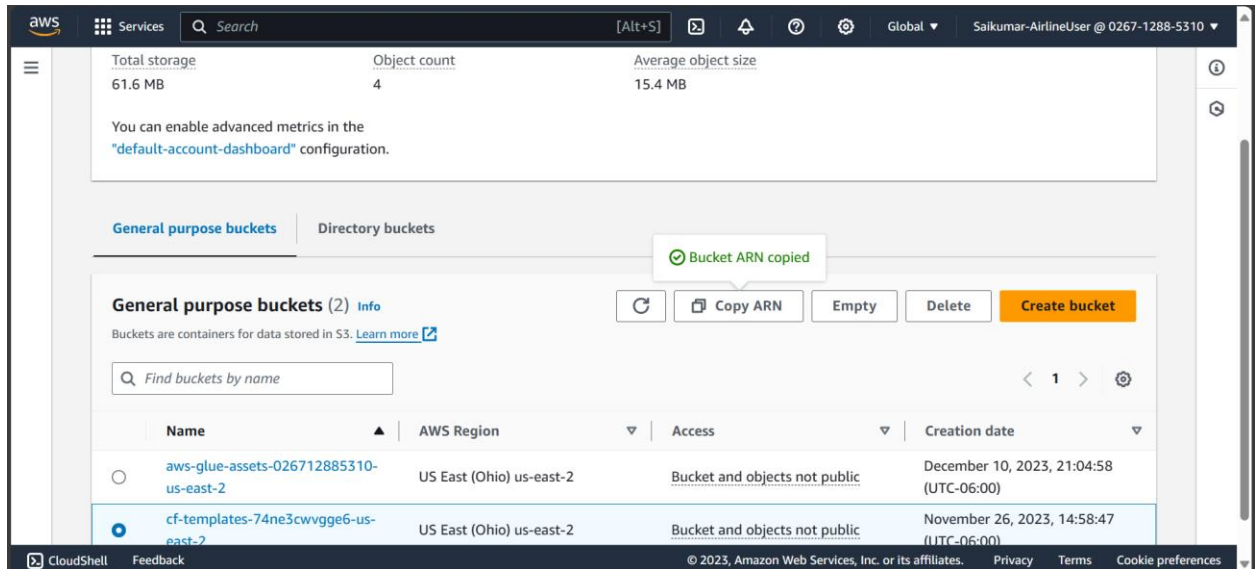


Part 2

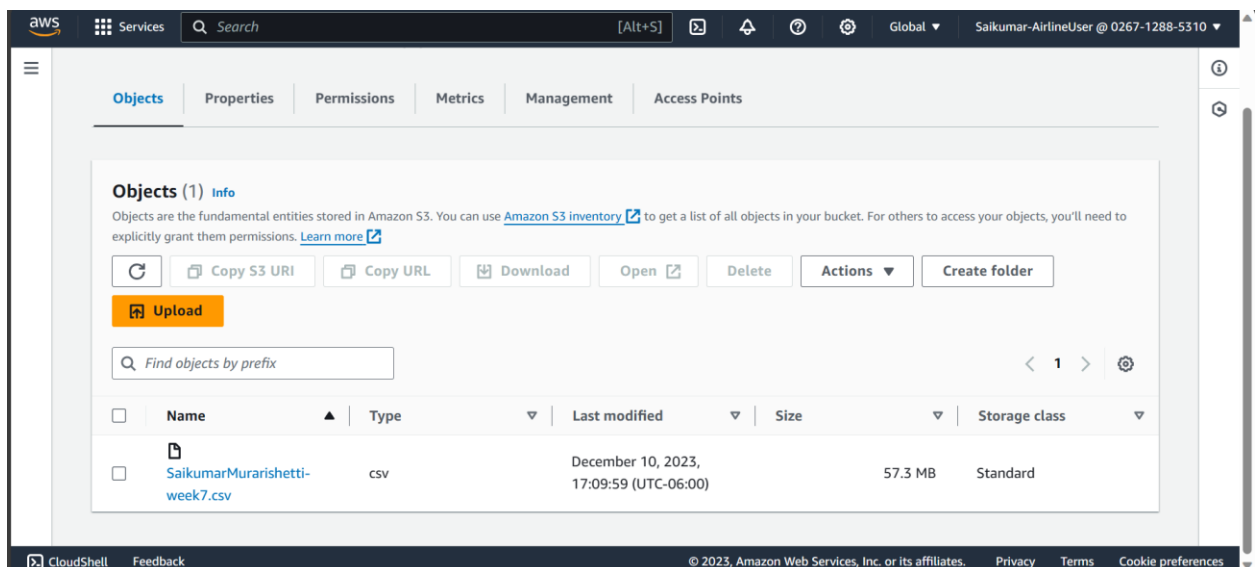
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1. The bucket used is



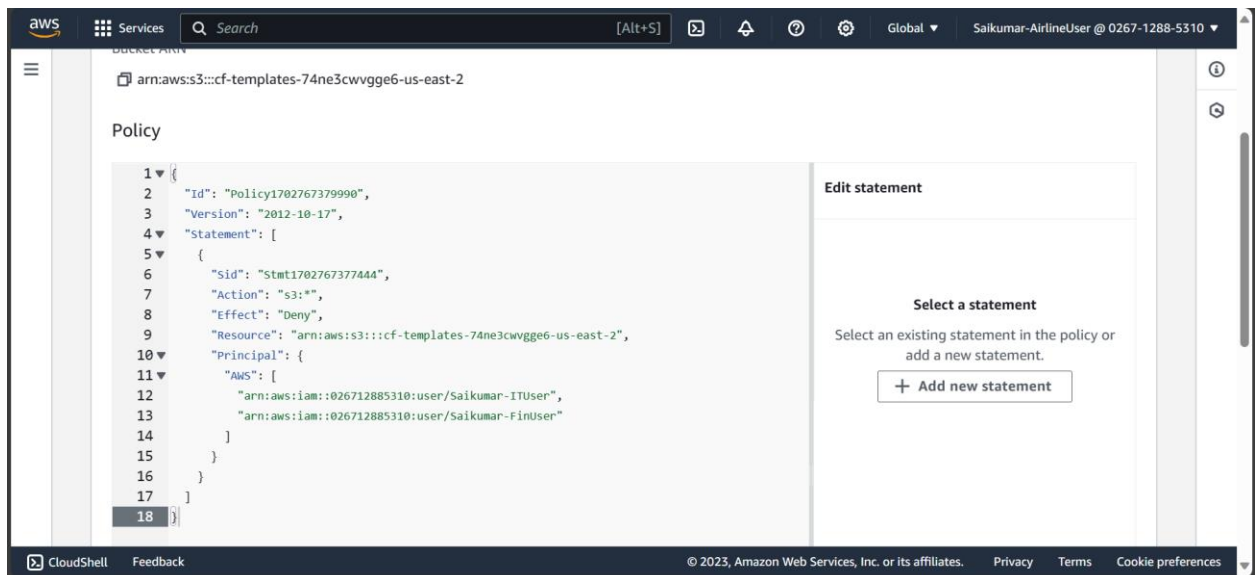
2. File uploaded.



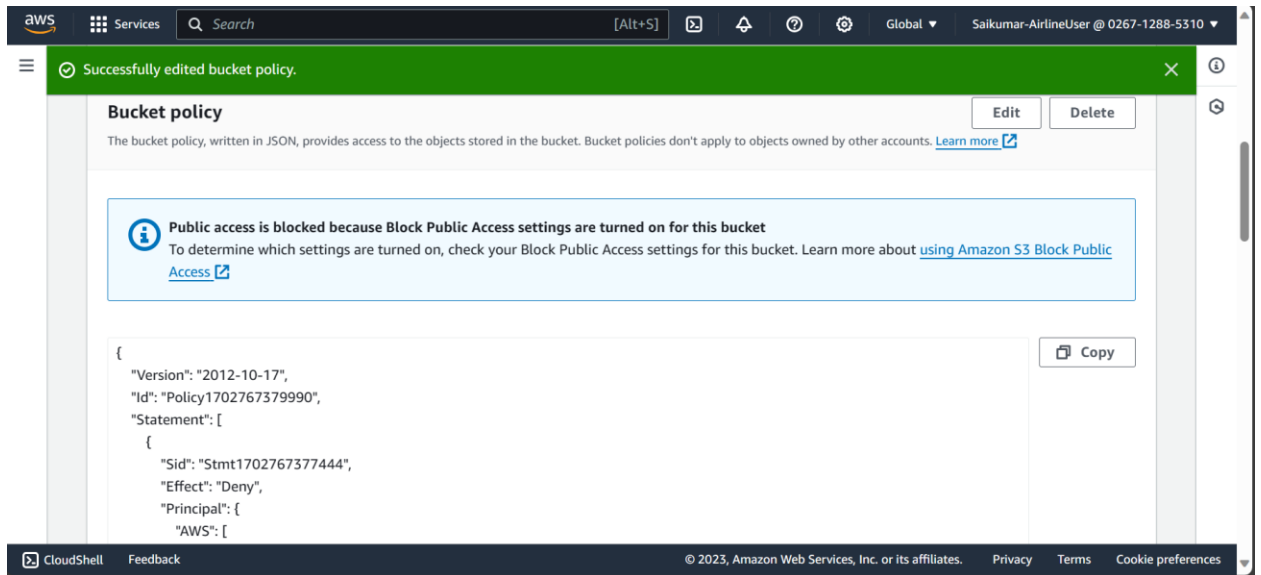
3. Policy generator.



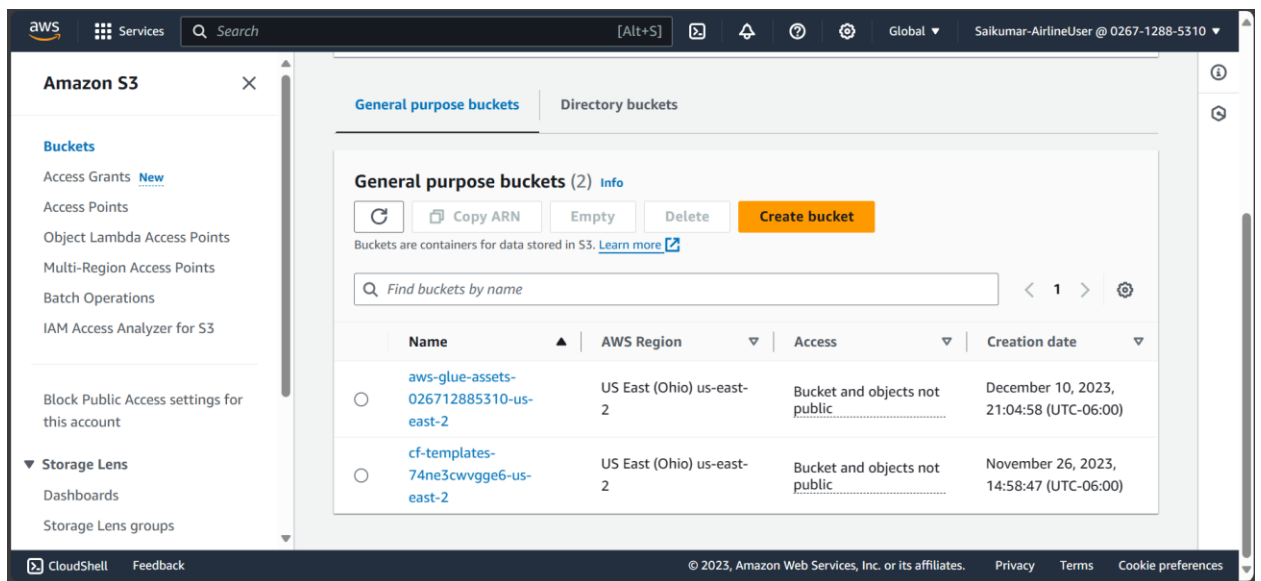
4. Adding the policy.



5. Bucket policy added successfully.



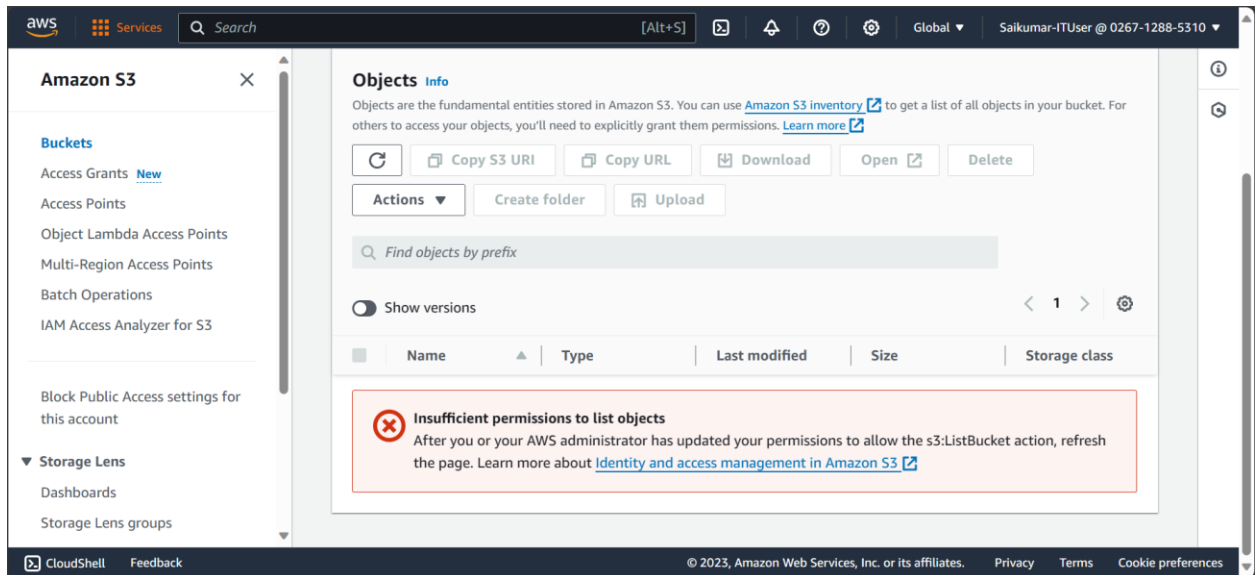
i. Yes, airline user can access the s3 bucket.



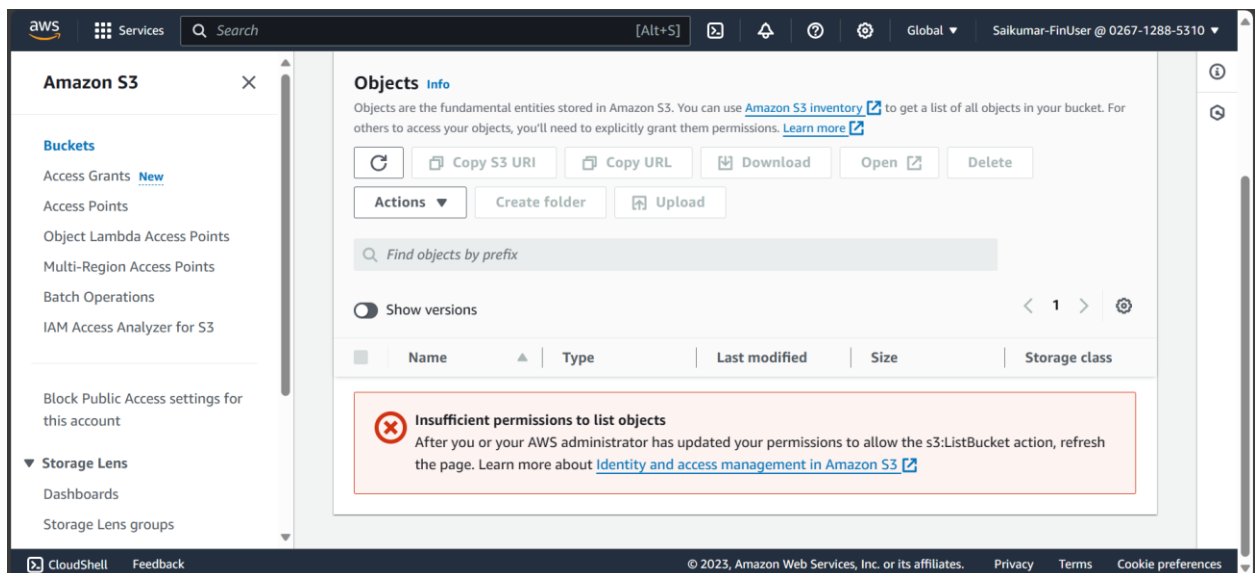
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- ii. Not able to access s3 bucket in ITUser.



- iii. Not able to access s3 bucket in FinUser.

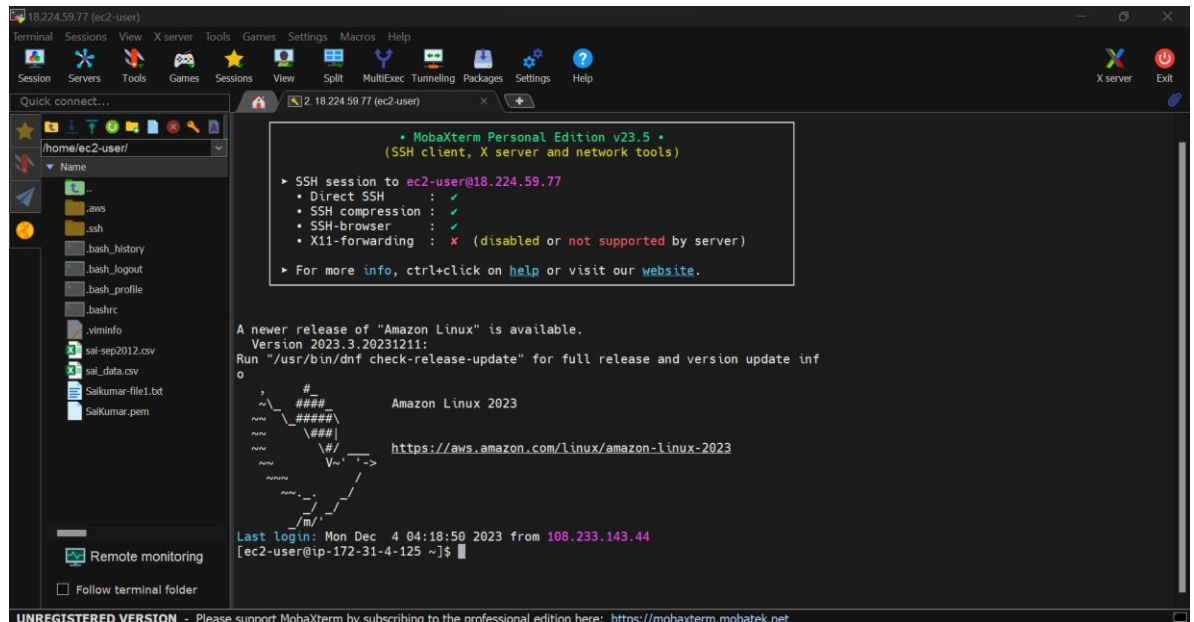
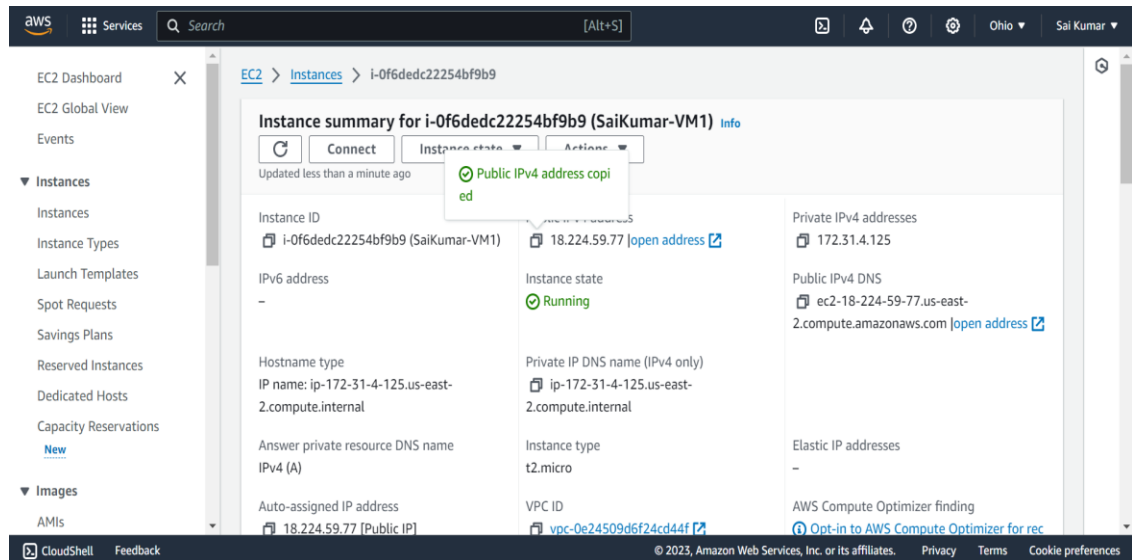


Part 3

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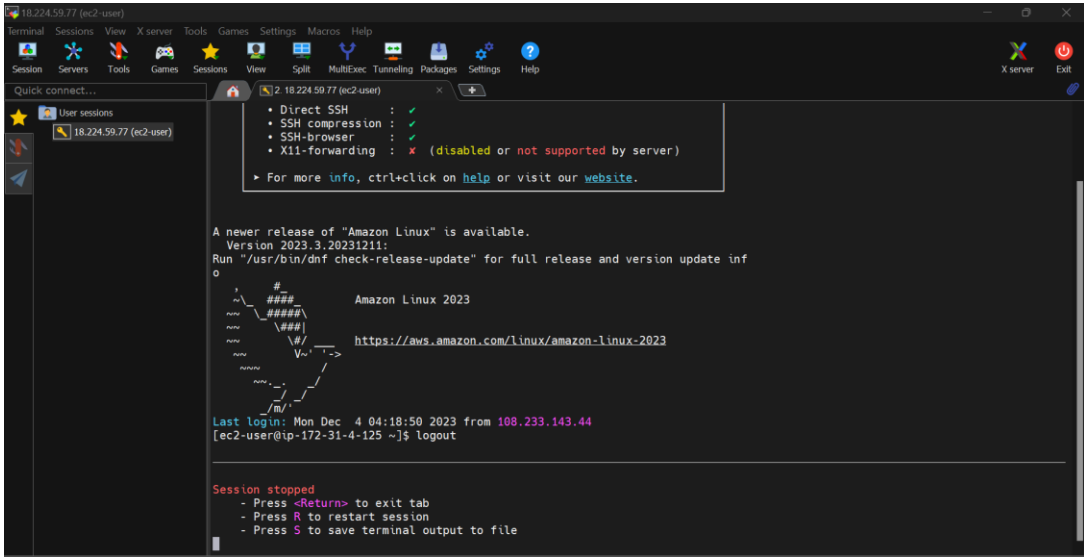
1. Instance running and private and public IP displaying.



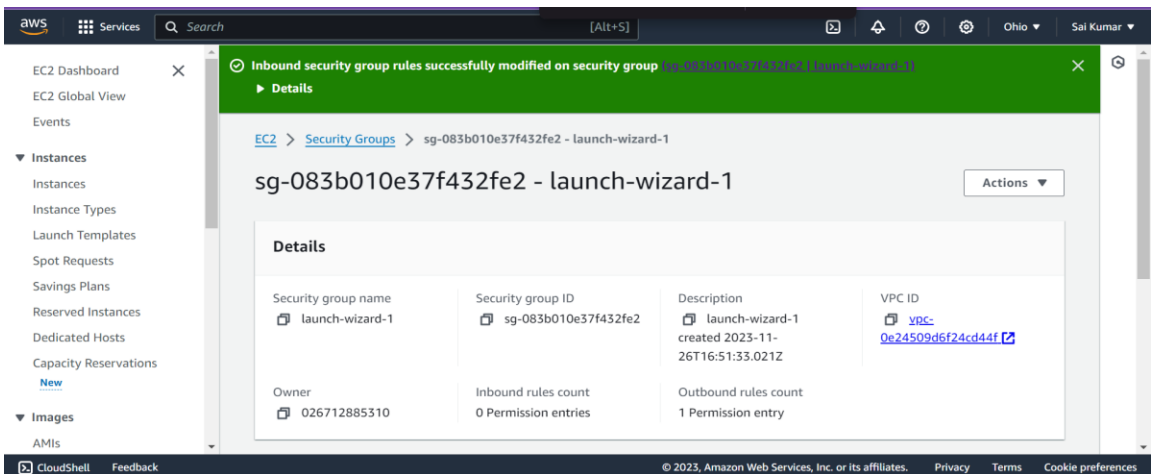
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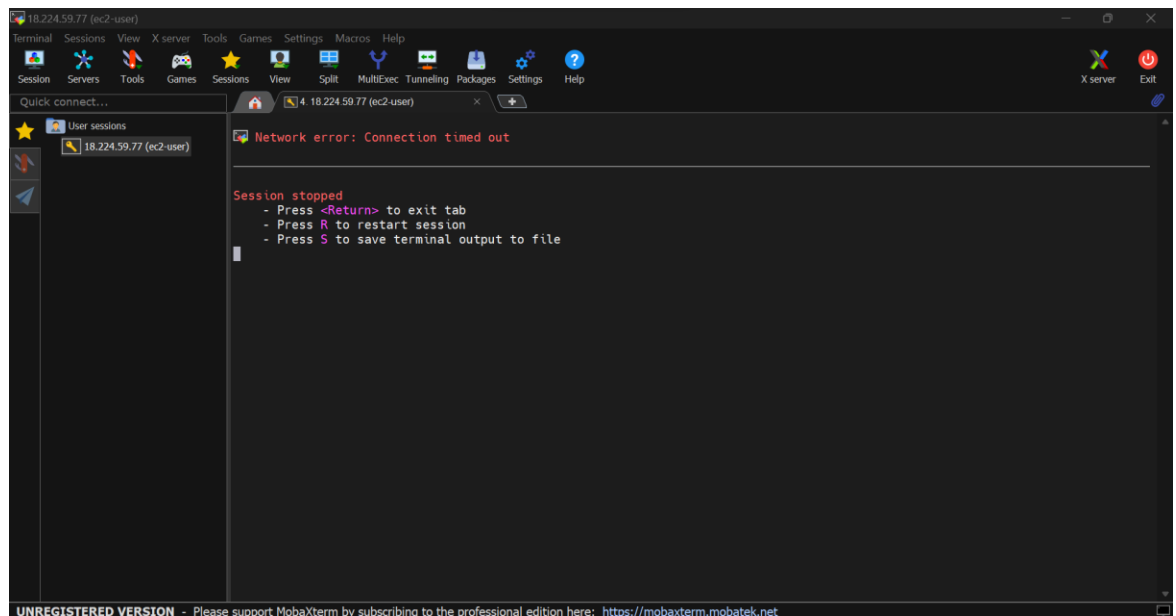
2. Logout from the connected server.



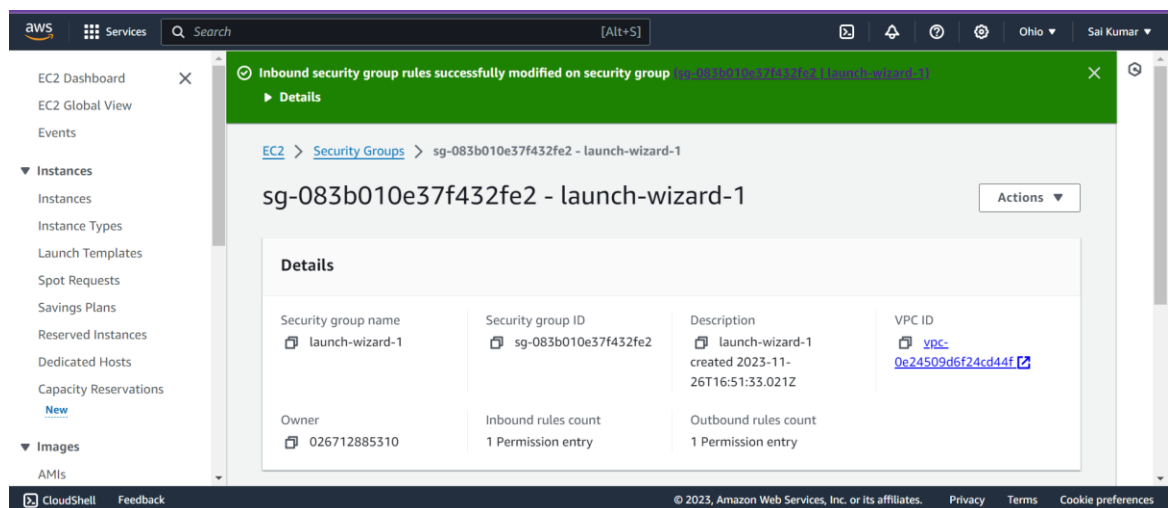
3. In-bound security rule edited.



4. After modifying the rule of inbound.



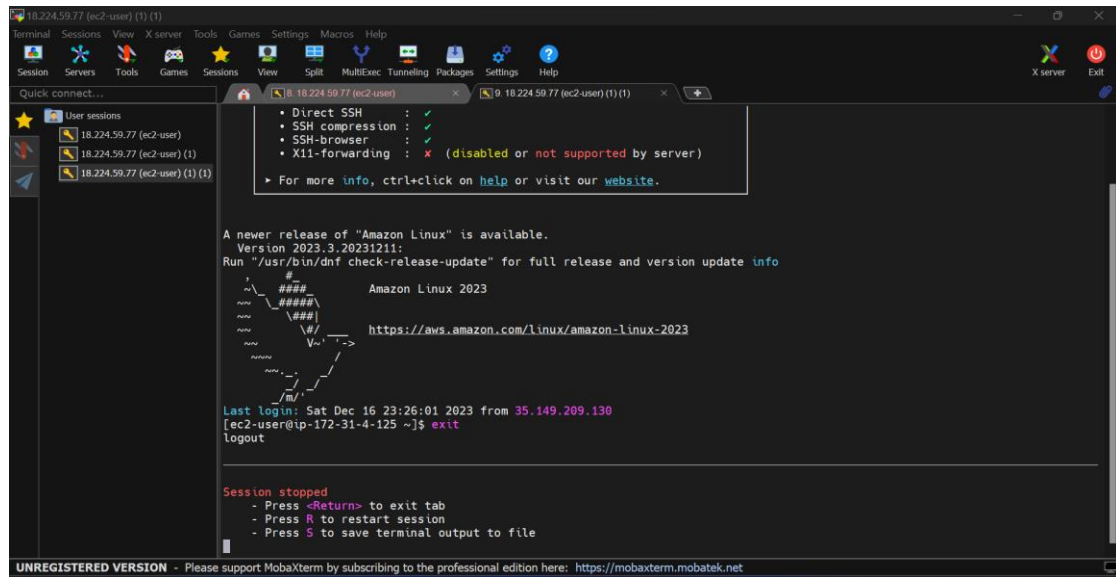
5. Updated the security policy again.



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6. Exiting the code.



The screenshot shows a MobaXterm window with a terminal session on an Amazon Linux instance. The terminal displays the following content:

```
18.224.59.77 (ec2-user) (1) (1)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
User sessions
18.224.59.77 (ec2-user)
18.224.59.77 (ec2-user) (1)
18.224.59.77 (ec2-user) (1) (1)

• Direct SSH : ✓
• SSH compression : ✓
• SSH-browser : ✓
• X11-forwarding : ✗ (disabled or not supported by server)
► For more info, ctrl+click on help or visit our website.

A newer release of "Amazon Linux" is available.
Version 2023.3.20231211:
Run "/usr/bin/dnf check-release-update" for full release and version update info

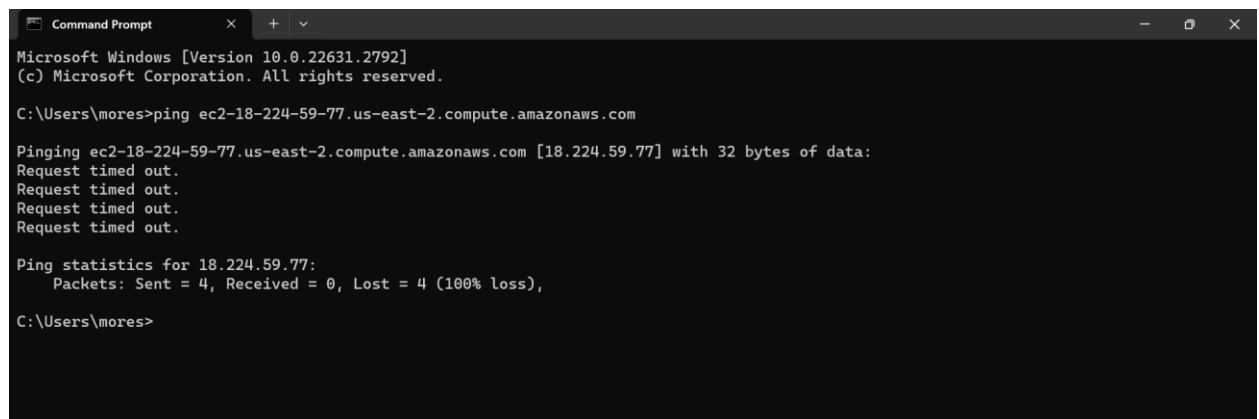
#####
# Amazon Linux 2023
#
#####
# https://aws.amazon.com/linux/amazon-linux-2023
#
#####
#
#####

Last login: Sat Dec 16 23:26:01 2023 from 35.149.209.130
[ec2-user@ip-172-31-4-125 ~]$ exit
logout

Session stopped
- Press <Return> to exit tab
- Press R to restart session
- Press S to save terminal output to file

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: https://mobaxterm.mobatek.net
```

i. The request timeout.



The screenshot shows a Windows Command Prompt window with the following output:

```
Microsoft Windows [Version 10.0.22631.2792]
(c) Microsoft Corporation. All rights reserved.

C:\Users\mores>ping ec2-18-224-59-77.us-east-2.compute.amazonaws.com

Pinging ec2-18-224-59-77.us-east-2.compute.amazonaws.com [18.224.59.77] with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 18.224.59.77:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\Users\mores>
```

- ii. After changing the ICMP ping request, it is successful.

```
C:\Users\mores>ping ec2-18-224-59-77.us-east-2.compute.amazonaws.com

Pinging ec2-18-224-59-77.us-east-2.compute.amazonaws.com [18.224.59.77] with 32 bytes of data:
Reply from 18.224.59.77: bytes=32 time=31ms TTL=106
Reply from 18.224.59.77: bytes=32 time=30ms TTL=106
Reply from 18.224.59.77: bytes=32 time=31ms TTL=106
Reply from 18.224.59.77: bytes=32 time=31ms TTL=106

Ping statistics for 18.224.59.77:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 30ms, Maximum = 31ms, Average = 30ms

C:\Users\mores>
```

- iii. The ICMP rule added.

The screenshot shows the AWS Management Console interface. On the left is a navigation menu with options like 'EC2 Dashboard', 'Instances', 'Launch Templates', etc. The main content area displays the 'Inbound rules' tab for a specific security group. At the top, it shows the owner's ID (026712885310) and the counts for inbound and outbound rules. Below this, there are buttons for 'Inbound rules', 'Outbound rules', and 'Tags'. The 'Inbound rules (2)' section contains a search bar and a table with two rules.

	Name	Security group rule...	IP version	Type	Protocol
<input type="checkbox"/>	-	sgr-0943f580e28eeb0bc	IPv4	All ICMP - IPv4	ICMP
<input type="checkbox"/>	-	sgr-067c940ad3ddcb8e4	IPv4	SSH	TCP

At the bottom of the console, there is a footer with 'CloudShell', 'Feedback', and copyright information for Amazon Web Services, Inc. or its affiliates, along with links for 'Privacy', 'Terms', and 'Cookie preferences'.

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iv. After removing the ICMP rule.

Inbound security group rules successfully modified on security group sg-083b010e37f432fe2 | launch-wizard-1

EC2 > Security Groups > sg-083b010e37f432fe2 - launch-wizard-1

sg-083b010e37f432fe2 - launch-wizard-1

Details			
Security group name launch-wizard-1	Security group ID sg-083b010e37f432fe2	Description launch-wizard-1 created 2023-11-26T16:51:33.021Z	VPC ID vpc-0e24509d6f24cd44f
Owner 026712885310	Inbound rules count 1 Permission entry	Outbound rules count 1 Permission entry	

v. Stopping the instance.

Inbound security group rules successfully modified on security group sg-083b010e37f432fe2 | launch-wizard-1

EC2 > Security Groups > sg-083b010e37f432fe2 - launch-wizard-1

sg-083b010e37f432fe2 - launch-wizard-1

Details			
Security group name launch-wizard-1	Security group ID sg-083b010e37f432fe2	Description launch-wizard-1 created 2023-11-26T16:51:33.021Z	VPC ID vpc-0e24509d6f24cd44f
Owner 026712885310	Inbound rules count 1 Permission entry	Outbound rules count 1 Permission entry	

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- vi. Deleted the bucket and terminate the instances.

