

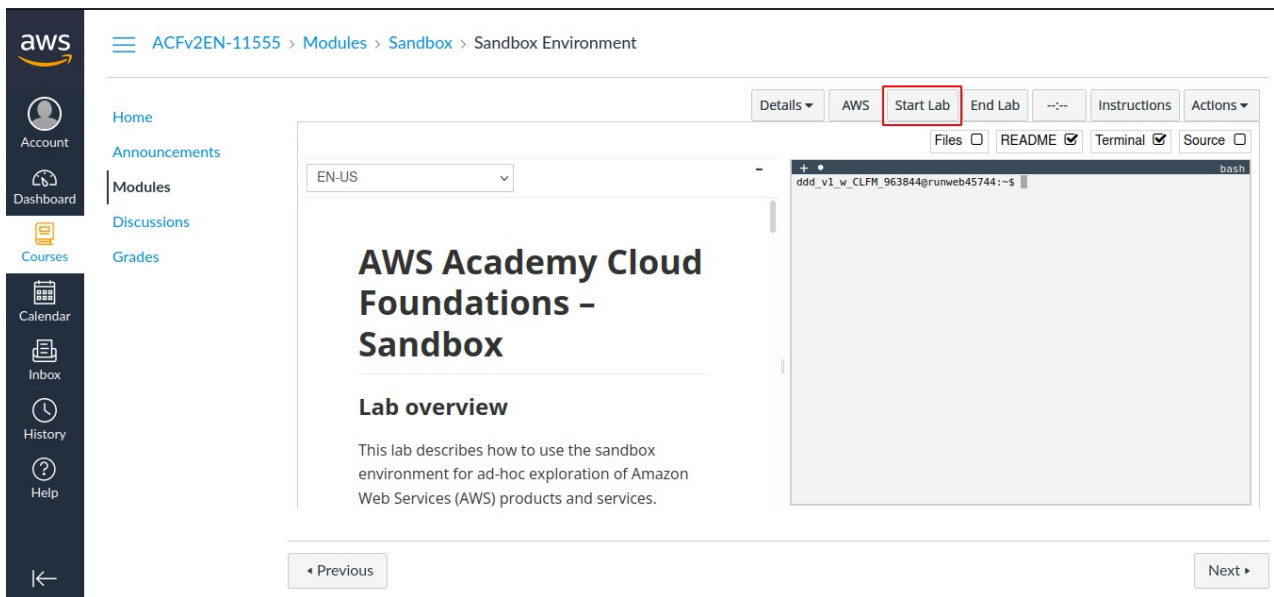
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Cloud Computing

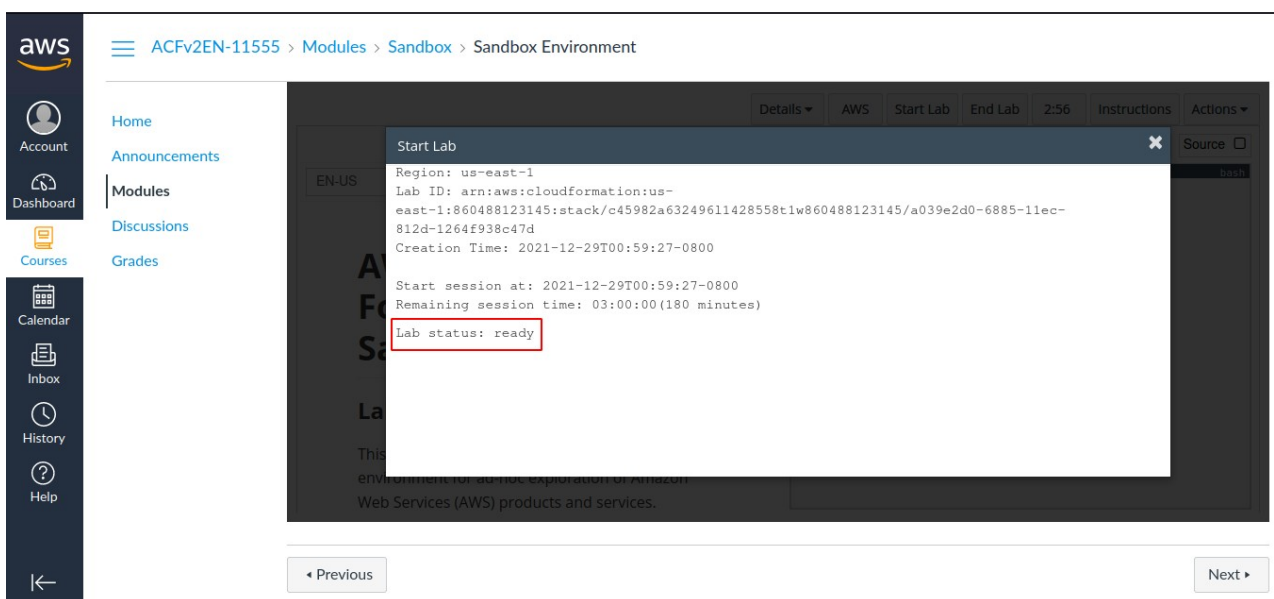
Practical Assignment No. 6 - Working and Implementation of Identity and Access Management.

Use the IAM service of AWS.

Step 1: At the top right panel above the console, choose **Start Lab** to launch your lab.

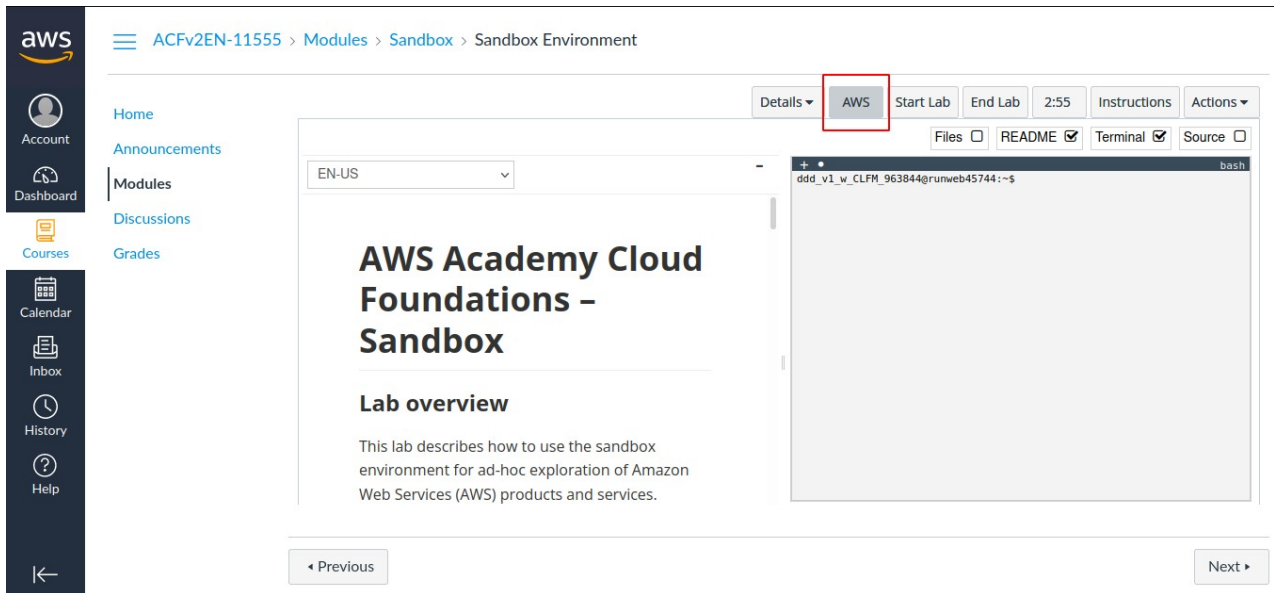


Step 2: Wait until you see the message "**Lab status: ready**", then choose the **X** to close the Start Lab panel.

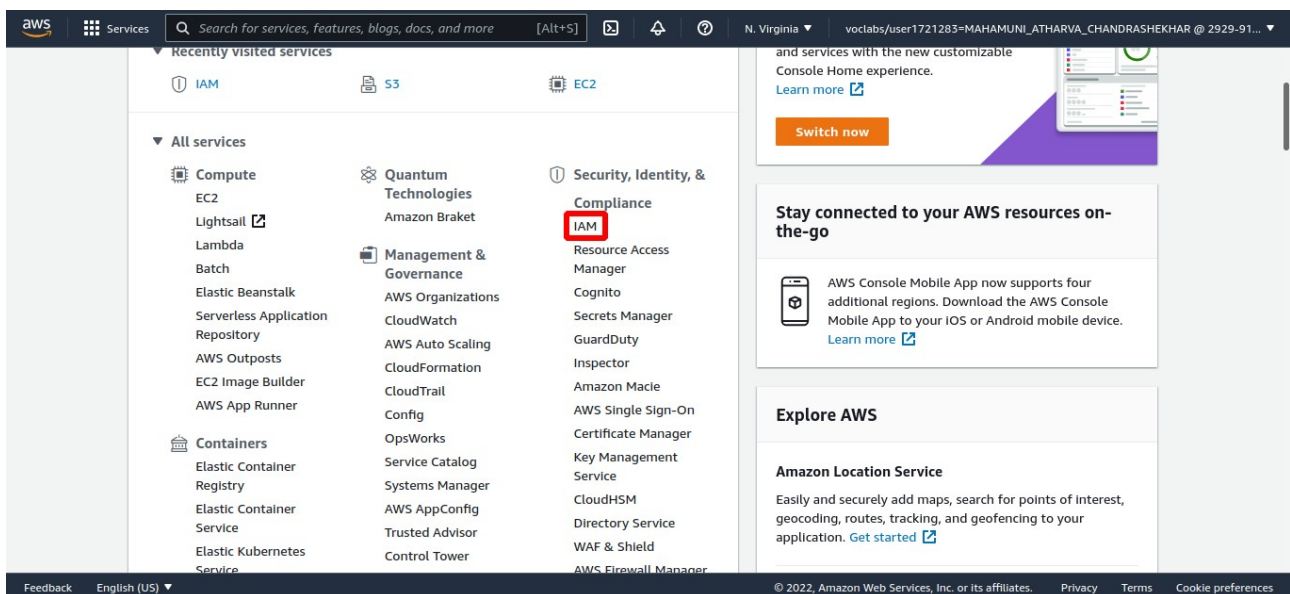


Step 3: Now choose AWS

This will open the AWS Management Console in a new browser tab. The system will automatically log you in.



Step 4: In the **AWS Management Console** on the **Services** menu, choose **IAM**.



Step 5: In the navigation pane on the left, choose **Users**.

The screenshot shows the AWS IAM dashboard. In the left-hand navigation pane, under 'Access management', the 'Users' link is highlighted with a red box. The main content area displays the 'IAM dashboard' with a 'Security recommendations' section showing a warning to 'Add MFA for root user'. Below this, the 'IAM resources' section shows a summary: 3 User groups, 4 Users, 16 Roles, 3 Policies, and 0 Identity providers. The right-hand side shows the 'AWS Account' information, including the Account ID (292991881123) and a 'Create' button for an Account Alias. At the bottom, there is a 'What's new' section with updates for IAM features.

Step 6: Add Users to Groups

In the left navigation pane, choose User groups. Choose the **S3-Support** group.

The screenshot shows the 'User groups' page in the AWS IAM console. The left navigation pane has 'User groups' highlighted with a red box. The main content area shows a list of user groups. The 'S3-Support' group is highlighted with a red box in the table. The table has columns for 'Group name', 'Users', 'Permissions', and 'Creation time'. The 'S3-Support' group is listed with a creation time of '16 days ago'.

<input type="checkbox"/>	Group name	Users	Permissions	Creation time
<input type="checkbox"/>	EC2-Admin	⌂ Loading	⌂ Loading	16 days ago
<input type="checkbox"/>	EC2-Support	⌂ Loading	⌂ Loading	16 days ago
<input type="checkbox"/>	S3-Support	⌂ Loading	⌂ Loading	16 days ago

Step 7: Choose the **Users** tab. In the Users tab, choose **Add users**.

The screenshot shows the AWS IAM console interface. On the left is the navigation menu with 'Access management' expanded and 'User groups' selected. The main content area shows the 'S3-Support' user group details. The 'Users' tab is active, displaying 'Users in this group (1)'. The 'Add users' button is highlighted with a red rectangle.

Identity and Access Management (IAM)

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Access management

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IAM > User groups > S3-Support

S3-Support

Summary

User group name: S3-Support

Creation time: December 27, 2021, 10:30 (UTC+05:30)

ARN: arn:aws:iam::292991881123:group/spl66/S3-Support

Users Permissions Access Advisor

Users in this group (1) Info

An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS.

Search

1

Add users

Step 8: In the Add Users to S3-Support window, configure the following:
Select user-1. At the bottom of the screen, choose **Add Users**.

The screenshot shows the 'Add users to S3-Support' window in the AWS IAM console. The 'Other users in this account' section shows a list of users. 'user-1' is selected with a blue checkmark. The 'Add users' button at the bottom right is highlighted with a red rectangle.

Identity and Access Management (IAM)

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IAM > User groups > S3-Support > Add users

Add users to S3-Support

Other users in this account (Selected 1/4) Info

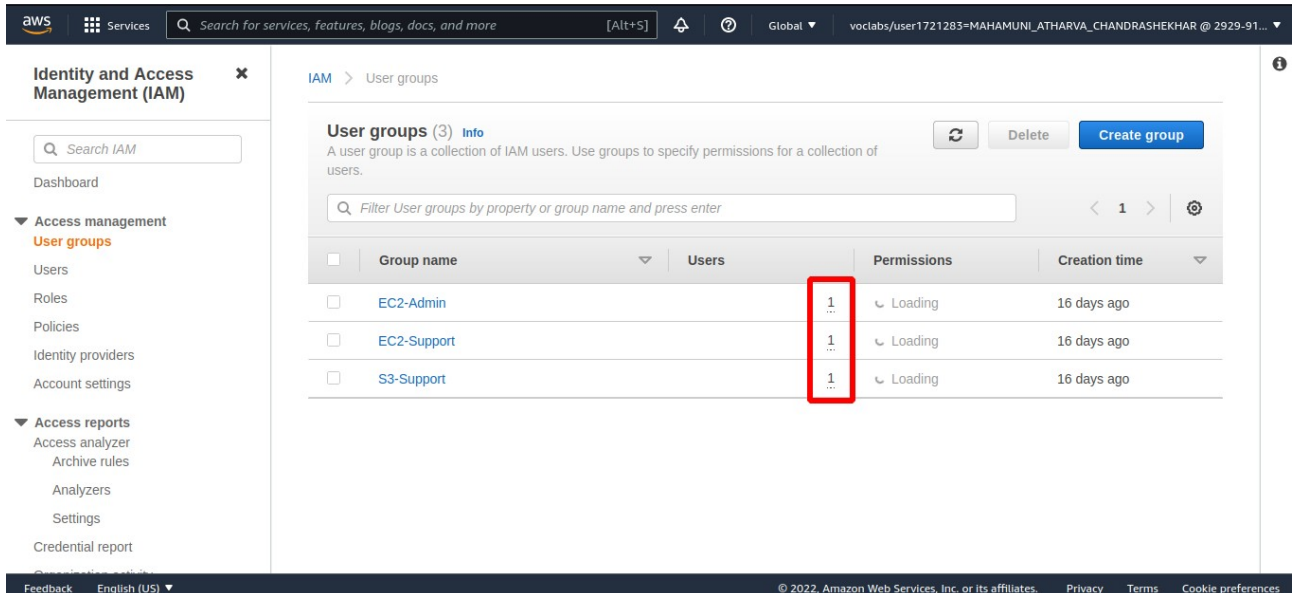
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1

User name	Groups	Last activity	Creation time
<input type="checkbox"/> awsstudent		None	16 days ago
<input checked="" type="checkbox"/> user-1	0	16 days ago	16 days ago
<input type="checkbox"/> user-2	0	16 days ago	16 days ago
<input type="checkbox"/> user-3	0	16 days ago	16 days ago

Cancel Add users

Step 9: Using similar steps to the ones above, add user-2 to the EC2-Support group and user-3 to EC2-Admin group.

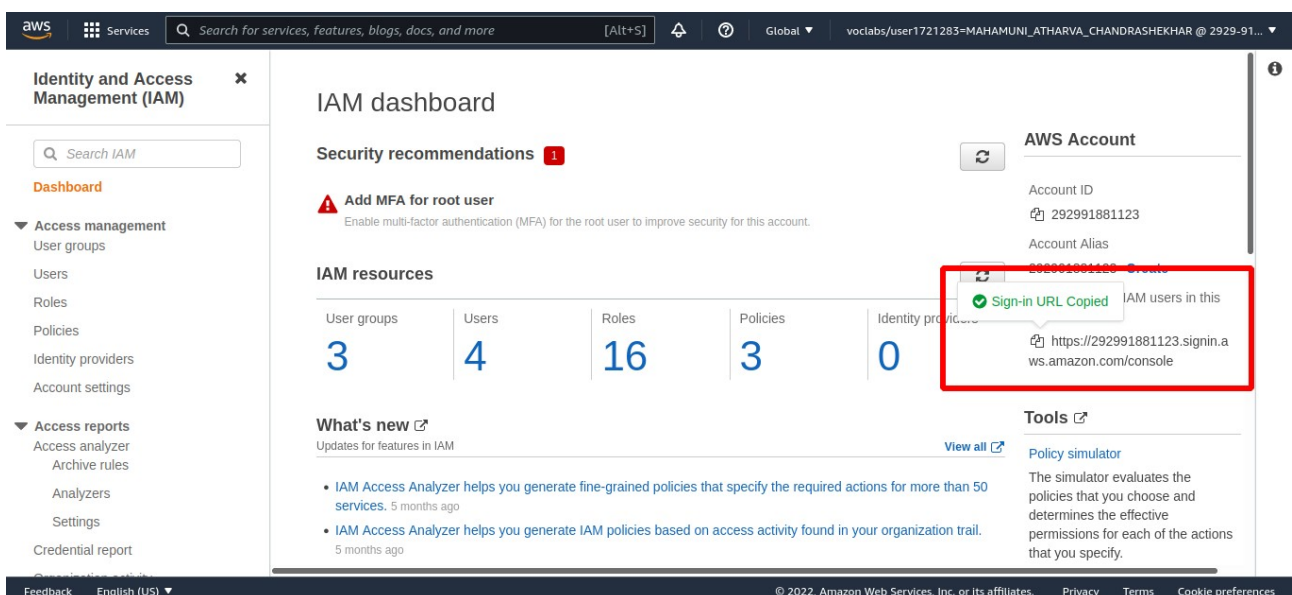


The screenshot shows the AWS IAM console's 'User groups' page. The left navigation pane is open, showing 'Access management' > 'User groups'. The main content area displays a table of user groups. The 'Users' column for each group (EC2-Admin, EC2-Support, S3-Support) shows '1' user, which is highlighted with a red box.

Group name	Users	Permissions	Creation time
EC2-Admin	1	Loading	16 days ago
EC2-Support	1	Loading	16 days ago
S3-Support	1	Loading	16 days ago

Step 10: Sign-In and Test Users.

In the navigation pane on the left, choose Dashboard. An IAM users sign-in link is displayed on the right. Copy the Sign-in URL.



The screenshot shows the AWS IAM console's 'IAM dashboard'. The left navigation pane is open, showing 'Access management' > 'Dashboard'. The main content area displays the 'IAM dashboard' with various sections. A red box highlights the 'Sign-in URL Copied' notification in the 'Tools' section, which includes the URL: <https://292991881123.signin.aws.amazon.com/console>.

User groups	Users	Roles	Policies	Identity providers
3	4	16	3	0

Step 11: Open a private (Incognito) window. Paste the IAM users sign-in link into the address bar of your private browser session and press Enter. Next, you will sign-in as user-1, who has been hired as your Amazon S3 storage support staff.

Sign-in with:

IAM user name: user-1

Password: Lab-Password1

aws

Sign in as IAM user

Account ID (12 digits) or account alias

292991881123

IAM user name

user-1

Password

.....

☐ Remember this account

Sign in

[Sign in using root user email](#)

[Forgot password?](#)

Amazon Lightsail

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Step 12: In the Services menu, choose **S3**.

aws Services [Alt+S] Ohio user-1 @ 2929-9188-1123

Storage

- S3**
- EFS
- FSx
- S3 Glacier
- Storage Gateway
- AWS Backup
- AWS Elastic Disaster Recovery

Database

- RDS
- DynamoDB
- ElastiCache
- Neptune

Service Catalog

- Systems Manager
- AWS AppConfig
- Trusted Advisor
- Control Tower
- AWS License Manager
- AWS Well-Architected Tool
- Personal Health Dashboard
- AWS Chatbot
- Launch Wizard
- AWS Compute Optimizer
- Resource Groups & Tag Editor
- Amazon Grafana
- Amazon Prometheus
- AWS Proton
- AWS Resilience Hub
- Incident Manager
- Media Services
- Kinesis Video Streams

Key Management Service

- CloudHSM
- Directory Service
- WAF & Shield
- AWS Firewall Manager
- Artifact
- Security Hub
- Detective
- AWS Audit Manager
- AWS Signer
- AWS Network Firewall

AWS Cost Management

- AWS Cost Explorer
- AWS Budgets
- AWS Marketplace Subscriptions
- AWS Application Cost Profiler

Front-end Web & Mobile

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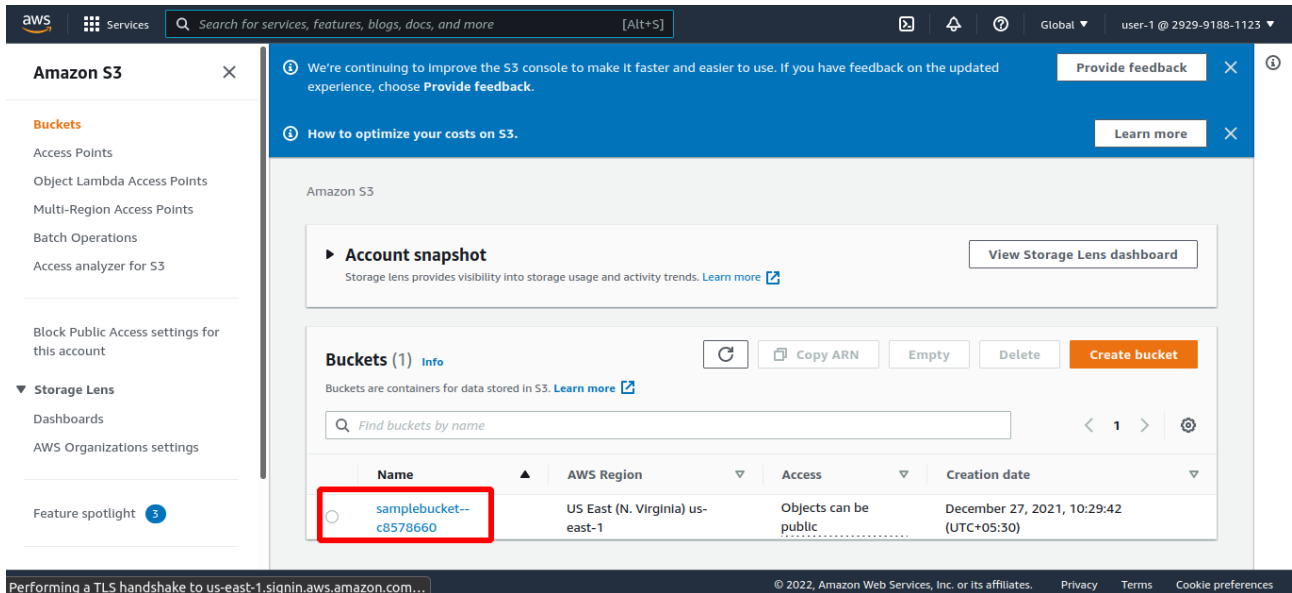
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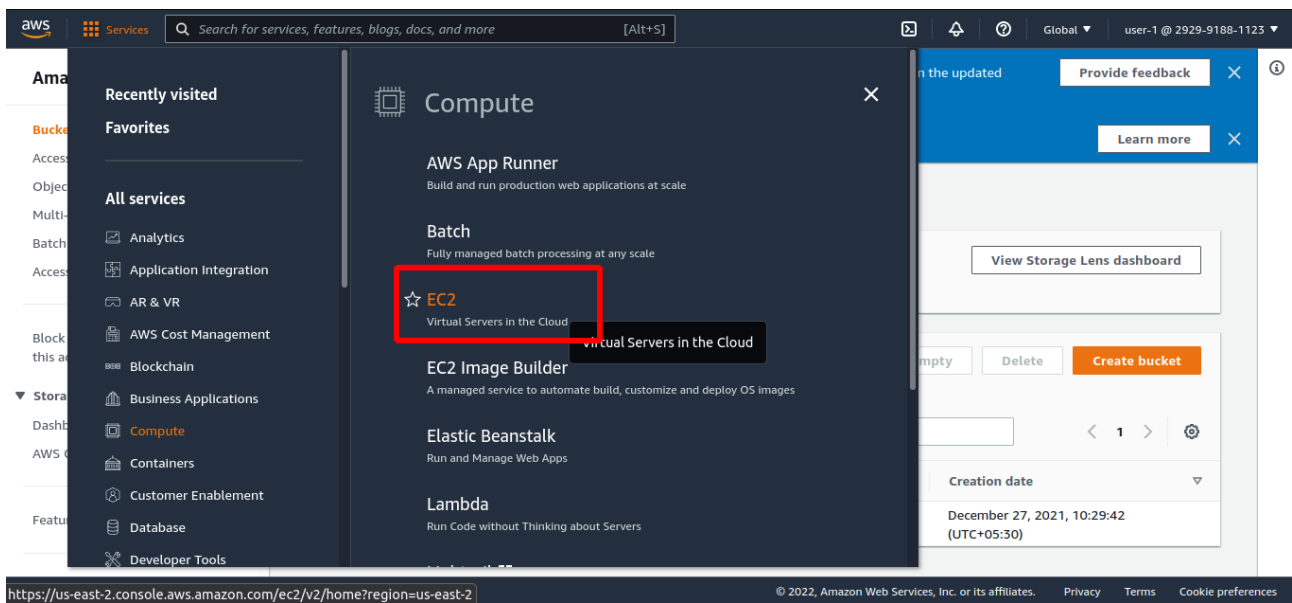
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Step 13: Choose the name of the bucket that exists in the account and browse the contents. Since your user is part of the **S3-Support Group** in IAM, they have permission to view a list of Amazon S3 buckets and the contents.

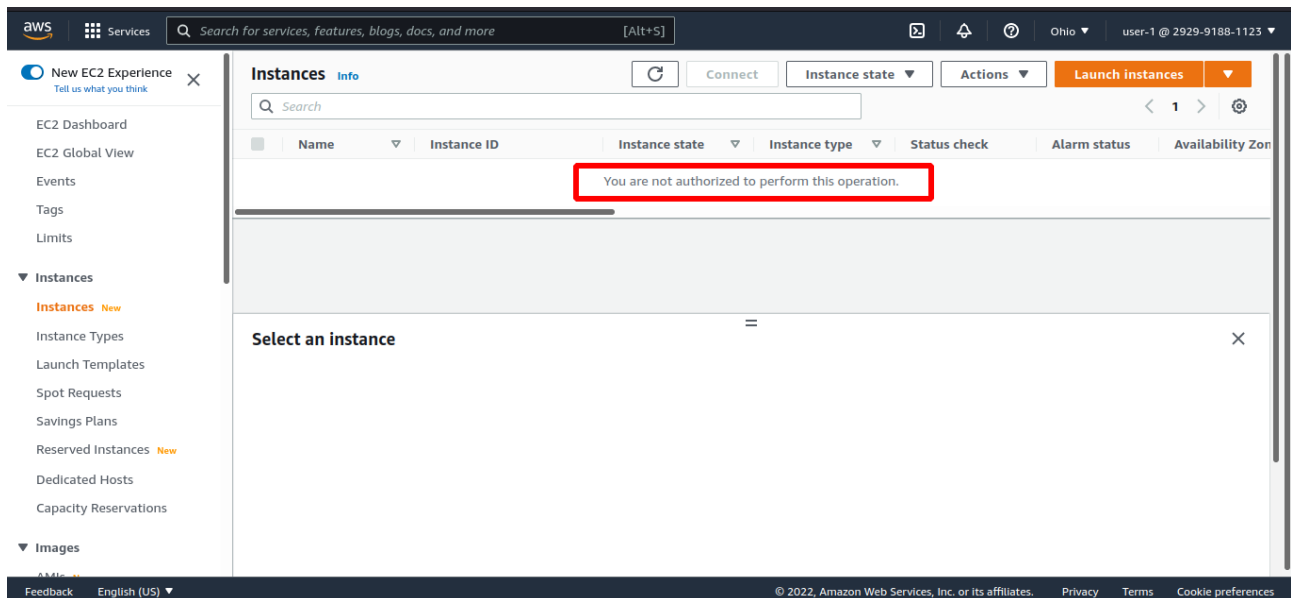


Step 14: In the Services menu, choose **EC2**.



Step 15: In the left navigation pane, choose **Instances**.

You cannot see any instances. Instead, you see a message that states **You are not authorized to perform this operation**. This is because this user has not been granted any permissions to access Amazon EC2.



Step 16: You will now sign-in as user-2, who has been hired as your Amazon EC2 support person.

Sign-in with:

IAM user name: user-2

Password: Lab-Password2

In the navigation pane on the left, choose Instances.

You are now able to see an Amazon EC2 instance because you have Read Only permissions.

However, you will not be able to make any changes to Amazon EC2 resources.

In the Instance state menu above, select Stop instance.

Step 17 :- Repeat the process for user-3.

In the navigation pane on the left, choose Instances.

As an EC2 Administrator, you should now have permissions to Stop the Amazon EC2 instance.

Select the instance named LabHost .

Step 18 :- In the Instance state menu, choose Stop instance.

In the Stop instance window, choose Stop.

The instance will enter the stopping state and will shutdown.

Close your private browser window.

Lab complete