

# Project 6: Exploring AWS Identity and Access Management (IAM)

## Access and Configure AWS CLI

### Step 1: Open the Lab Environment

- Start your lab session as directed.

### Step 2: Run the Lab

- Initiate the lab session by clicking the "Run Lab" button.

### Step 3: Access AWS CLI

- Navigate to the AWS Details panel.
- Locate the **AWS CLI** section and click "Show" to reveal the CLI credentials.

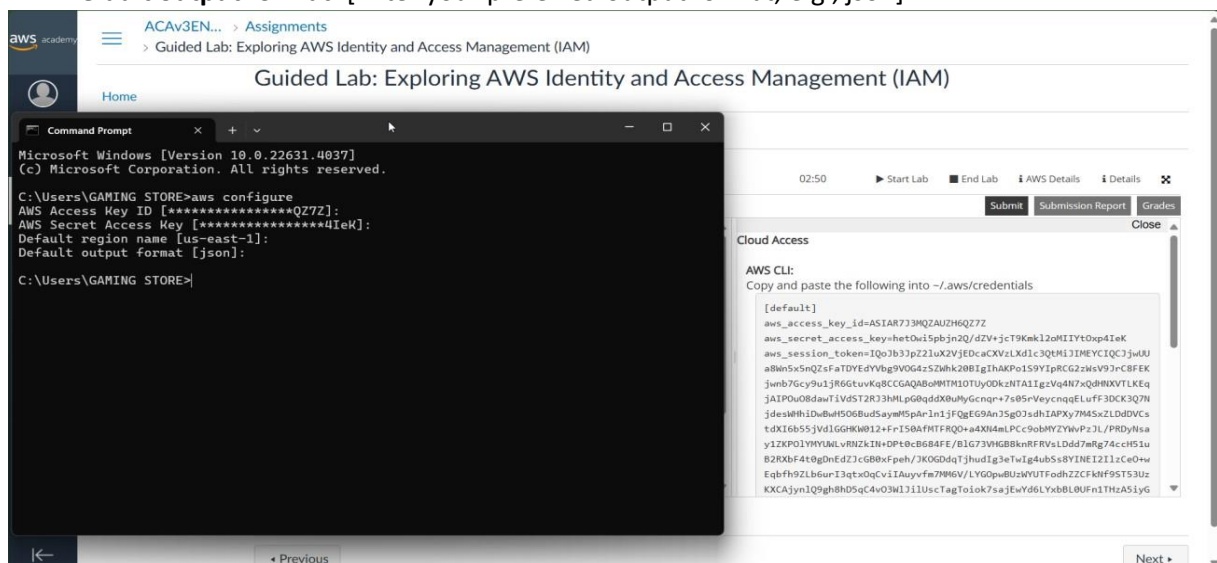
### Step 4: Configure AWS CLI

- Open **Command Prompt (cmd)** on your Windows machine.
- Enter the following command to start the configuration process:

```
bash  
  
aws configure
```

When prompted, input the AWS credentials provided:

- AWS Access Key ID:** [Enter your aws\_access\_key\_id]
- AWS Secret Access Key:** [Enter your aws\_secret\_access\_key]
- Default region name:** [Enter the desired AWS region, e.g., us-west-2]
- Default output format:** [Enter your preferred output format, e.g., json]




## Task 1: Explore Users and Groups

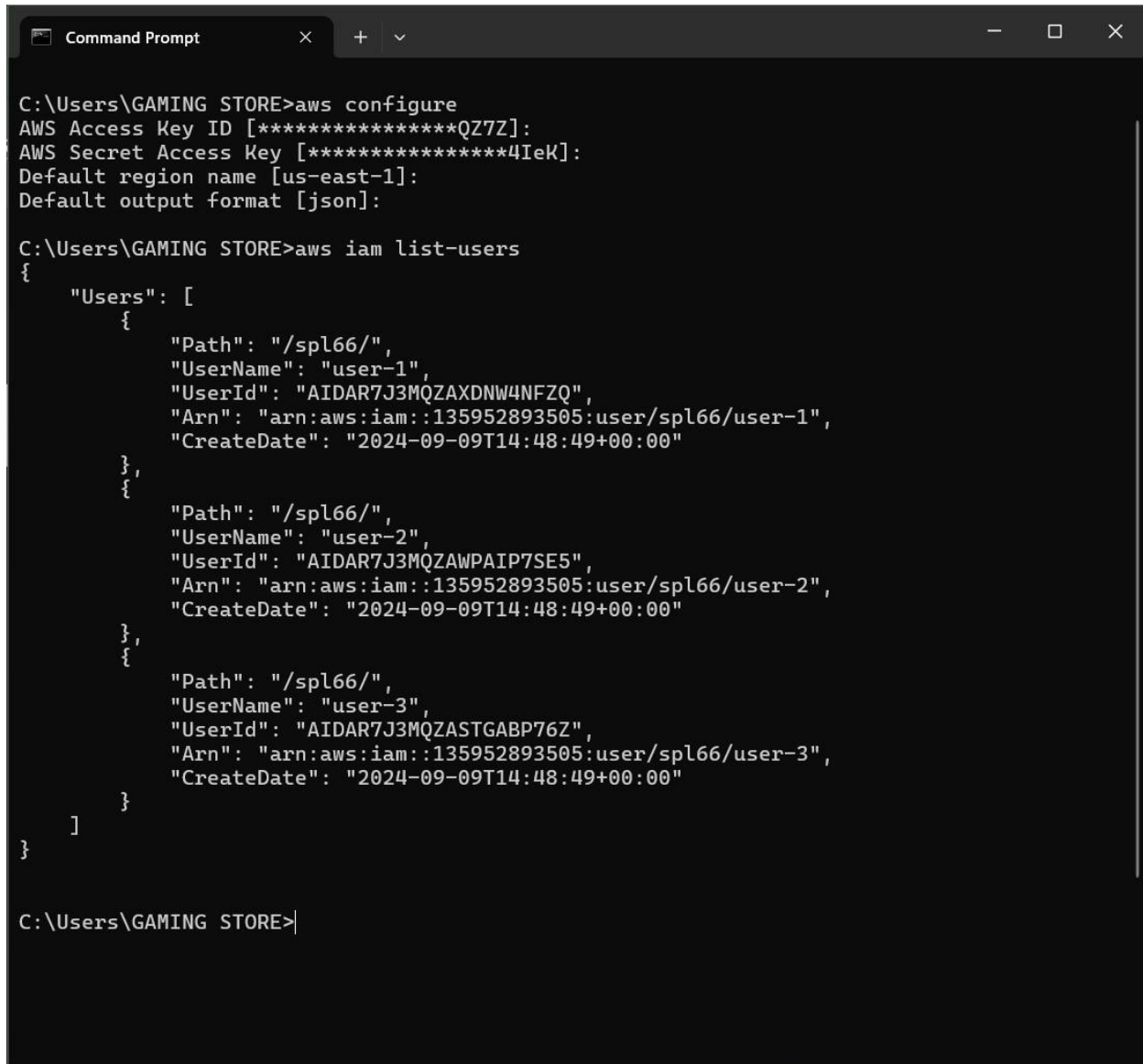
### 1.1: List All IAM Users

- Use the following CLI command to list all IAM users:

```
bash
```

 Copy code

```
aws iam list-users
```



```
Command Prompt
C:\Users\GAMING STORE>aws configure
AWS Access Key ID [*****QZ7Z]:
AWS Secret Access Key [*****4IeK]:
Default region name [us-east-1]:
Default output format [json]:


C:\Users\GAMING STORE>aws iam list-users
{
  "Users": [
    {
      "Path": "/spl66/",
      "UserName": "user-1",
      "UserId": "AIDAR7J3MQZAXDNW4NFZQ",
      "Arn": "arn:aws:iam::135952893505:user/spl66/user-1",
      "CreateDate": "2024-09-09T14:48:49+00:00"
    },
    {
      "Path": "/spl66/",
      "UserName": "user-2",
      "UserId": "AIDAR7J3MQZAWPAIP7SE5",
      "Arn": "arn:aws:iam::135952893505:user/spl66/user-2",
      "CreateDate": "2024-09-09T14:48:49+00:00"
    },
    {
      "Path": "/spl66/",
      "UserName": "user-3",
      "UserId": "AIDAR7J3MQZASTGABP76Z",
      "Arn": "arn:aws:iam::135952893505:user/spl66/user-3",
      "CreateDate": "2024-09-09T14:48:49+00:00"
    }
  ]
}

C:\Users\GAMING STORE>
```

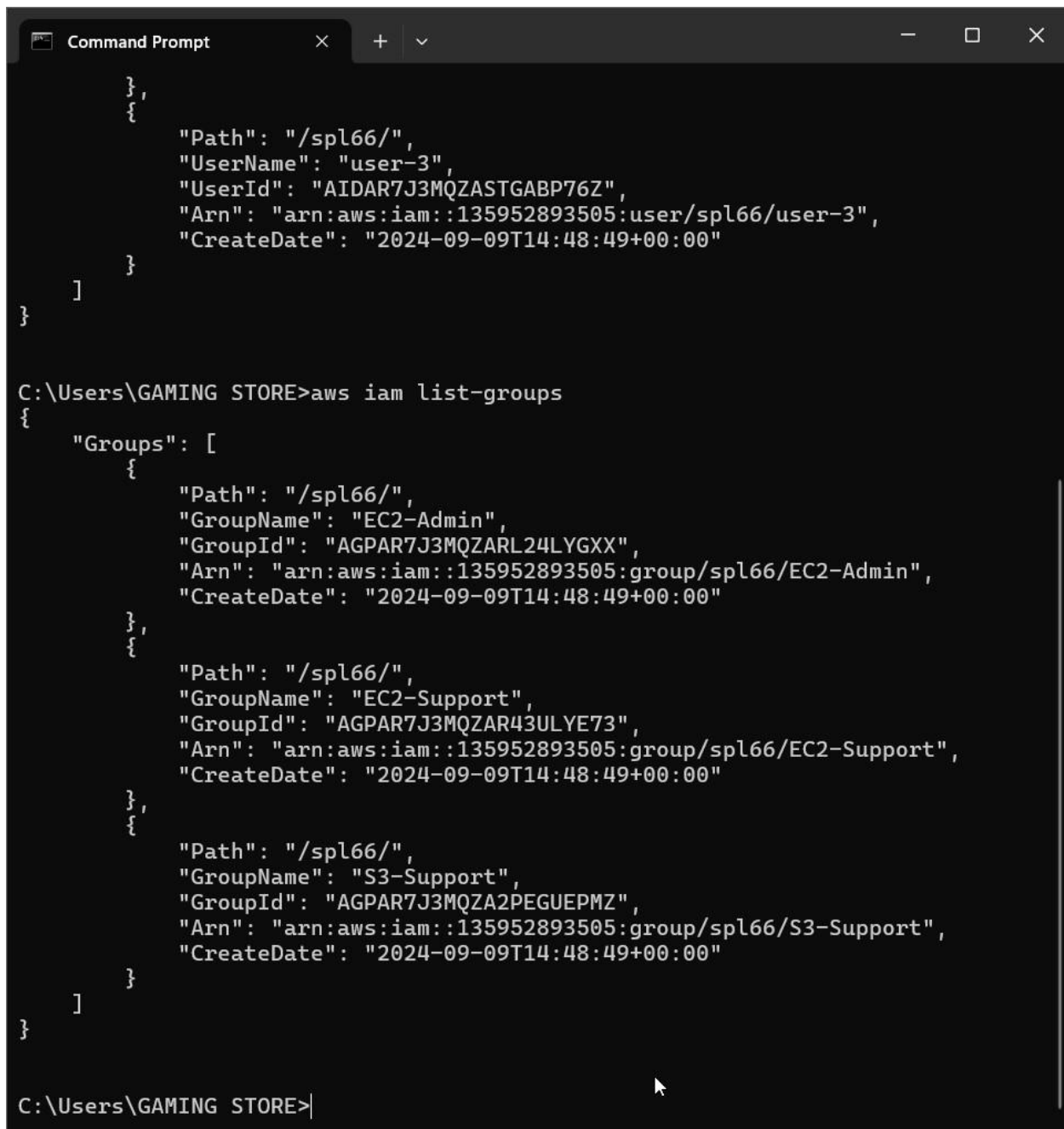
## 1.2: List IAM Groups

- Use the following CLI command to list all IAM groups:

```
bash
```

 Copy code

```
aws iam list-groups
```



```
Command Prompt
{
  },
  {
    "Path": "/spl66/",
    "UserName": "user-3",
    "UserId": "AIDAR7J3MQZASTGABP76Z",
    "Arn": "arn:aws:iam::135952893505:user/spl66/user-3",
    "CreateDate": "2024-09-09T14:48:49+00:00"
  }
]
}

C:\Users\GAMING STORE>aws iam list-groups
{
  "Groups": [
    {
      "Path": "/spl66/",
      "GroupName": "EC2-Admin",
      "GroupId": "AGPAR7J3MQZARL24LYGXX",
      "Arn": "arn:aws:iam::135952893505:group/spl66/EC2-Admin",
      "CreateDate": "2024-09-09T14:48:49+00:00"
    },
    {
      "Path": "/spl66/",
      "GroupName": "EC2-Support",
      "GroupId": "AGPAR7J3MQZAR43ULYE73",
      "Arn": "arn:aws:iam::135952893505:group/spl66/EC2-Support",
      "CreateDate": "2024-09-09T14:48:49+00:00"
    },
    {
      "Path": "/spl66/",
      "GroupName": "S3-Support",
      "GroupId": "AGPAR7J3MQZA2PEGUEPMZ",
      "Arn": "arn:aws:iam::135952893505:group/spl66/S3-Support",
      "CreateDate": "2024-09-09T14:48:49+00:00"
    }
  ]
}

C:\Users\GAMING STORE>
```

### 1.3: Inspect User Details

- Replace [username] with the actual username to inspect details of a specific IAM user:

```
bash
```

[Copy code](#)

```
aws iam get-user --user-name <user_name>
```

```
Command Prompt
}
]
}

C:\Users\GAMING STORE>aws iam get-user --user-name user-1
{
  "User": {
    "Path": "/spl66/",
    "UserName": "user-1",
    "UserId": "AIDAR7J3MQZAXDNW4NFZQ",
    "Arn": "arn:aws:iam::135952893505:user/spl66/user-1",
    "CreateDate": "2024-09-09T14:48:49+00:00",
    "Tags": [
      {
        "Key": "cloudlab",
        "Value": "c132429a3358548l7486179t1w135952893505"
      }
    ]
  }
}

C:\Users\GAMING STORE>aws iam get-user --user-name user-2
{
  "User": {
    "Path": "/spl66/",
    "UserName": "user-2",
    "UserId": "AIDAR7J3MQZAWPAIP7SE5",
    "Arn": "arn:aws:iam::135952893505:user/spl66/user-2",
    "CreateDate": "2024-09-09T14:48:49+00:00",
    "Tags": [
      {
        "Key": "cloudlab",
        "Value": "c132429a3358548l7486179t1w135952893505"
      }
    ]
  }
}
```


```
C:\Users\GAMING STORE>aws iam get-user --user-name user-3
{
  "User": {
    "Path": "/spl66/",
    "UserName": "user-3",
    "UserId": "AIDAR7J3MQZASTGABP76Z",
    "Arn": "arn:aws:iam::135952893505:user/spl66/user-3",
    "CreateDate": "2024-09-09T14:48:49+00:00",
    "Tags": [
      {
        "Key": "cloudlab",
        "Value": "c132429a335854817486179t1w135952893505"
      }
    ]
  }
}

C:\Users\GAMING STORE>
```

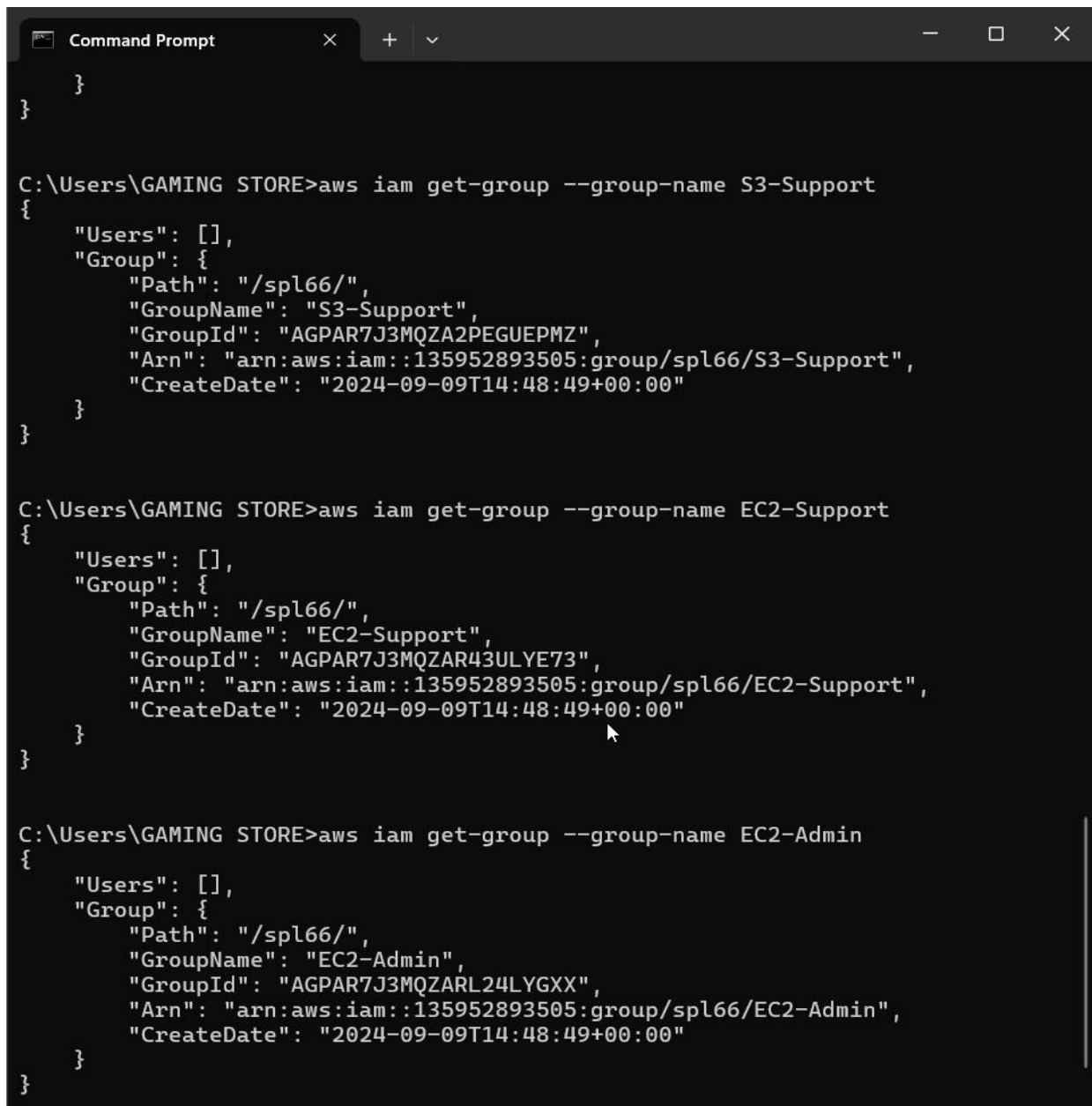
## 1.4: Inspect Group Details

- Replace [groupname] with the actual group name to inspect details of a specific IAM group:

bash

 Copy code

```
aws iam get-group --group-name <group_name>
```



```
Command Prompt
}
}

C:\Users\GAMING STORE>aws iam get-group --group-name S3-Support
{
  "Users": [],
  "Group": {
    "Path": "/spl66/",
    "GroupName": "S3-Support",
    "GroupId": "AGPAR7J3MQZA2PEGUEPMZ",
    "Arn": "arn:aws:iam::135952893505:group/spl66/S3-Support",
    "CreateDate": "2024-09-09T14:48:49+00:00"
  }
}

C:\Users\GAMING STORE>aws iam get-group --group-name EC2-Support
{
  "Users": [],
  "Group": {
    "Path": "/spl66/",
    "GroupName": "EC2-Support",
    "GroupId": "AGPAR7J3MQZAR43ULYE73",
    "Arn": "arn:aws:iam::135952893505:group/spl66/EC2-Support",
    "CreateDate": "2024-09-09T14:48:49+00:00"
  }
}


C:\Users\GAMING STORE>aws iam get-group --group-name EC2-Admin
{
  "Users": [],
  "Group": {
    "Path": "/spl66/",
    "GroupName": "EC2-Admin",
    "GroupId": "AGPAR7J3MQZARL24LYGXX",
    "Arn": "arn:aws:iam::135952893505:group/spl66/EC2-Admin",
    "CreateDate": "2024-09-09T14:48:49+00:00"
  }
}
```

## Task 2: Inspect IAM Policies

### 2.1: List Policies Attached to a Group

- To list the policies attached to a specific IAM group, use the following CLI command:

bash

 Copy code

```
aws iam list-attached-group-policies --group-name <Group-Name>
```

```
C:\Users\GAMING STORE>aws iam list-attached-group-policies --group-name S3-Support
{
  "AttachedPolicies": [
    {
      "PolicyName": "AmazonS3ReadOnlyAccess",
      "PolicyArn": "arn:aws:iam::aws:policy/AmazonS3ReadOnlyAccess"
    }
  ]
}


C:\Users\GAMING STORE>aws iam list-attached-group-policies --group-name EC2-Support
{
  "AttachedPolicies": [
    {
      "PolicyName": "AmazonEC2ReadOnlyAccess",
      "PolicyArn": "arn:aws:iam::aws:policy/AmazonEC2ReadOnlyAccess"
    }
  ]
}

C:\Users\GAMING STORE>aws iam list-attached-group-policies --group-name EC2-Admin
{
  "AttachedPolicies": []
}
```

## 2.2: Retrieve the Policy Document

- Once you have the **Policy ARN** from the previous command, retrieve the policy document using:
- This command will show the policy document in JSON format, which includes statements like "Effect", "Action", and "Resource".

bash

 Copy code

```
aws iam get-policy --policy-arn <Policy-ARN>
```

```
Command Prompt
C:\Users\GAMING STORE>aws iam get-policy --policy-arn arn:aws:iam::aws:policy/AmazonS3ReadOnlyAccess
{
  "Policy": {
    "PolicyName": "AmazonS3ReadOnlyAccess",
    "PolicyId": "ANPAIZTJ4DXE7G6AGAE6M",
    "Arn": "arn:aws:iam::aws:policy/AmazonS3ReadOnlyAccess",
    "Path": "/",
    "DefaultVersionId": "v3",
    "AttachmentCount": 1,
    "PermissionsBoundaryUsageCount": 0,
    "IsAttachable": true,
    "Description": "Provides read only access to all buckets via the AWS Management Console.",
    "CreateDate": "2015-02-06T18:40:59+00:00",
    "UpdateDate": "2023-08-10T21:31:39+00:00",
    "Tags": []
  }
}

C:\Users\GAMING STORE>aws iam get-policy --policy-arn arn:aws:iam::aws:policy/AmazonEC2ReadOnlyAccess
{
  "Policy": {
    "PolicyName": "AmazonEC2ReadOnlyAccess",
    "PolicyId": "ANPAIGDT4SV4GSETWTBZK",
    "Arn": "arn:aws:iam::aws:policy/AmazonEC2ReadOnlyAccess",
    "Path": "/",
    "DefaultVersionId": "v1",
    "AttachmentCount": 1,
    "PermissionsBoundaryUsageCount": 0,
    "IsAttachable": true,
    "Description": "Provides read only access to Amazon EC2 via the AWS Management Console.",
    "CreateDate": "2015-02-06T18:40:17+00:00",
    "UpdateDate": "2024-02-14T18:43:53+00:00",
    "Tags": []
  }
}

C:\Users\GAMING STORE>
```



### Task 3: Add Users to Groups

#### 3.1: Add User-1 to S3-Support Group

#### 3.2: Add User-2 to EC2-Support Group

#### 3.3: Add User-3 to EC2-Admin Group

```
C:\Users\GAMING STORE>aws iam add-user-to-group --user-name User-1 --group-name S3-Support
C:\Users\GAMING STORE>aws iam add-user-to-group --user-name User-2 --group-name EC2-Support
C:\Users\GAMING STORE>aws iam add-user-to-group --user-name User-3 --group-name EC2-Admin
C:\Users\GAMING STORE>
```

#### 3.4: Verify Users in Groups

- To verify users in each group, list the users in each group using:

```
C:\Users\GAMING STORE>aws iam get-group --group-name S3-Support
{
  "Users": [
    {
      "Path": "/spl66/",
      "UserName": "user-1",
      "UserId": "AIDAR7J3MQZAXDNW4NFZQ",
      "Arn": "arn:aws:iam::135952893505:user/spl66/user-1",
      "CreateDate": "2024-09-09T14:48:49+00:00"
    }
  ],
  "Group": {
    "Path": "/spl66/",
    "GroupName": "S3-Support",
    "GroupId": "AGPAR7J3MQZA2PEGUEPMZ",
    "Arn": "arn:aws:iam::135952893505:group/spl66/S3-Support",
    "CreateDate": "2024-09-09T14:48:49+00:00"
  }
}
```

```
Command Prompt
C:\Users\GAMING STORE>aws iam get-group --group-name EC2-Support
{
  "Users": [
    {
      "Path": "/spl66/",
      "UserName": "user-2",
      "UserId": "AIDAR7J3MQZAWPAIP7SE5",
      "Arn": "arn:aws:iam::135952893505:user/spl66/user-2",
      "CreateDate": "2024-09-09T14:48:49+00:00"
    }
  ],
  "Group": {
    "Path": "/spl66/",
    "GroupName": "EC2-Support",
    "GroupId": "AGPAR7J3MQZAR43ULYE73",
    "Arn": "arn:aws:iam::135952893505:group/spl66/EC2-Support",
    "CreateDate": "2024-09-09T14:48:49+00:00"
  }
}

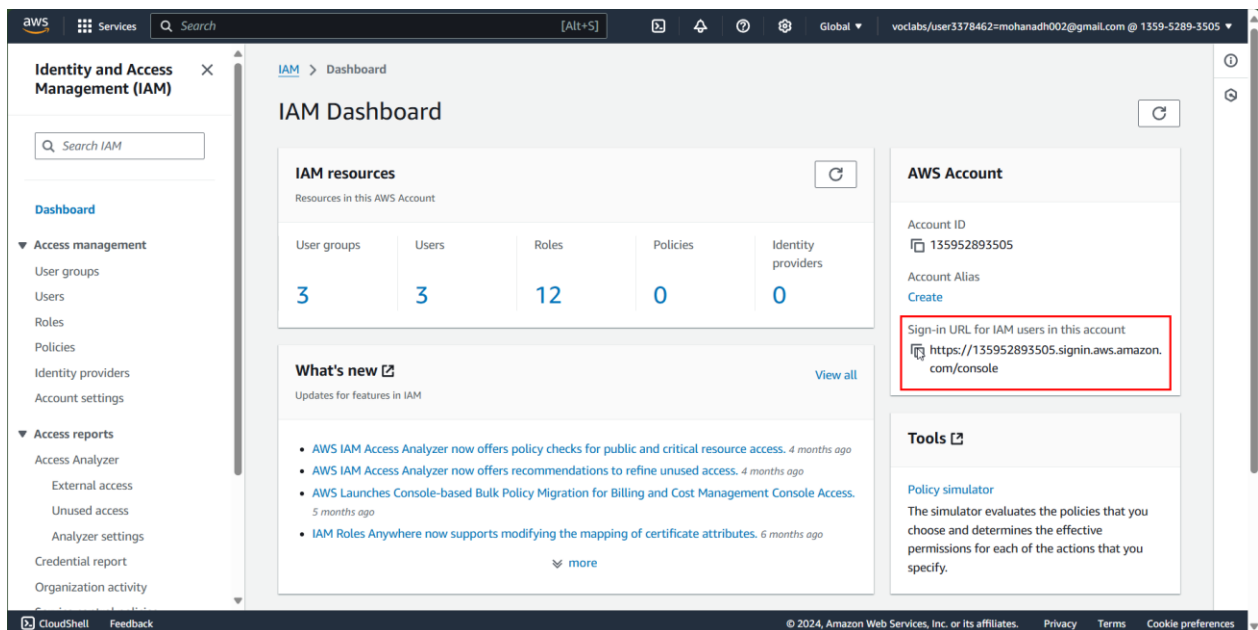
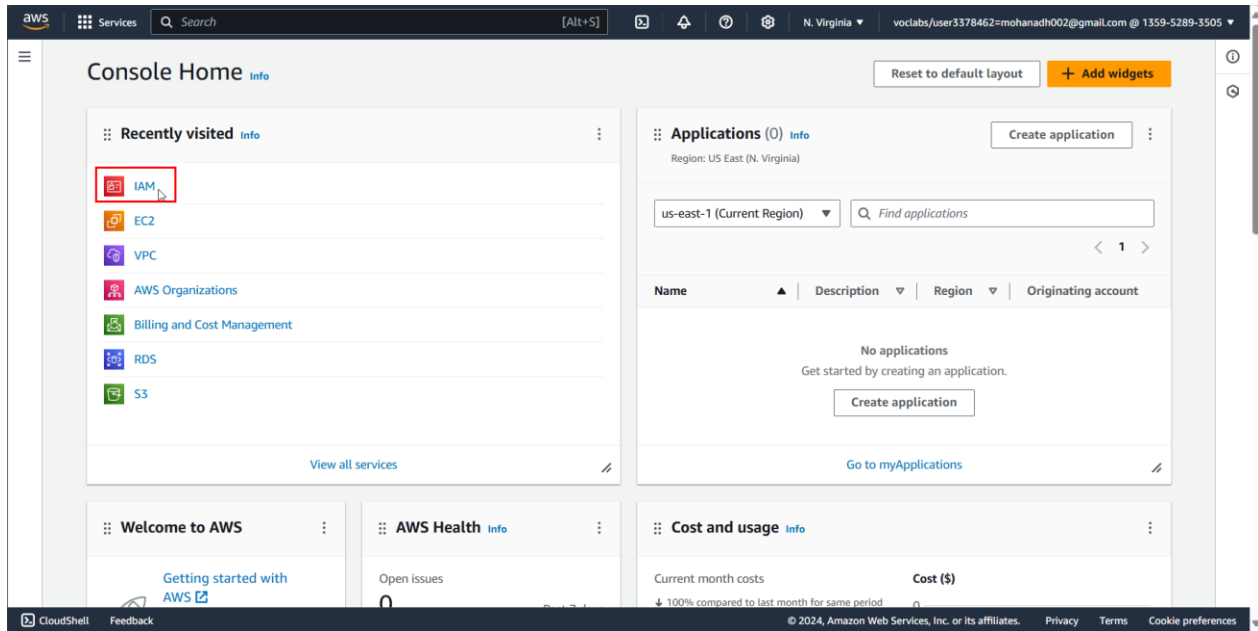
C:\Users\GAMING STORE>aws iam get-group --group-name EC2-Admin
{
  "Users": [
    {
      "Path": "/spl66/",
      "UserName": "user-3",
      "UserId": "AIDAR7J3MQZASTGABP76Z",
      "Arn": "arn:aws:iam::135952893505:user/spl66/user-3",
      "CreateDate": "2024-09-09T14:48:49+00:00"
    }
  ],
  "Group": {
    "Path": "/spl66/",
    "GroupName": "EC2-Admin",
    "GroupId": "AGPAR7J3MQZARL24LYGXX",
    "Arn": "arn:aws:iam::135952893505:group/spl66/EC2-Admin",
    "CreateDate": "2024-09-09T14:48:49+00:00"
  }
}
```

## Task 4: Test Permissions

To verify the access of each user, you need to simulate their login using the AWS Management Console. Since testing involves logging in via the browser, here's how to proceed for each user:

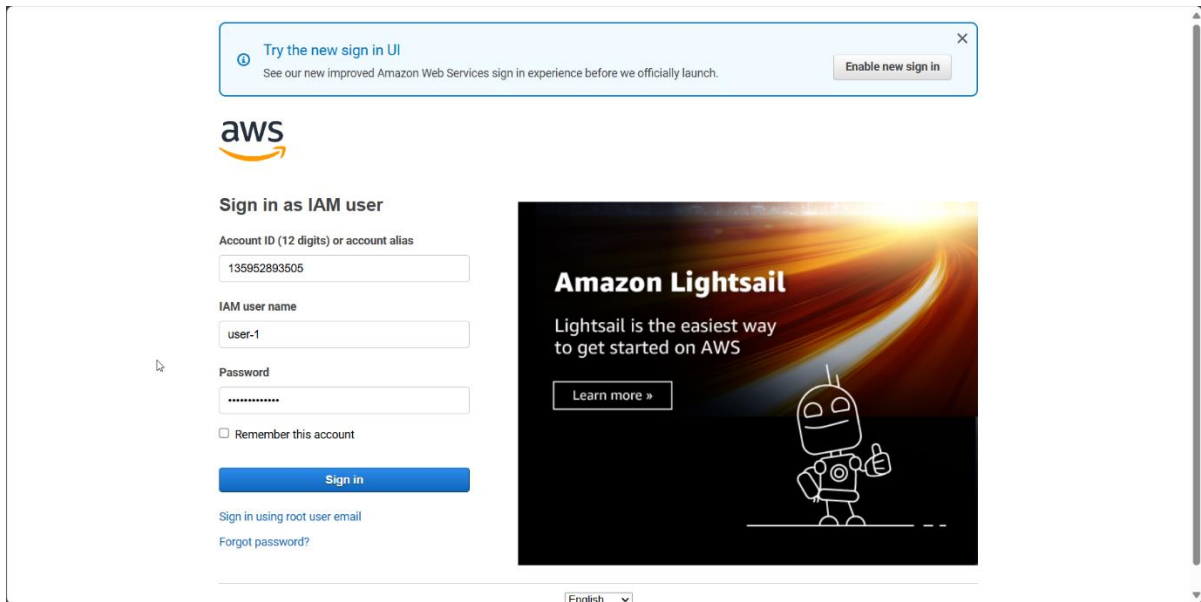
### Task 4.1: Get the console sign-in URL

- Sign in to AWS Management Console as User-1 using the IAM sign-in URL.

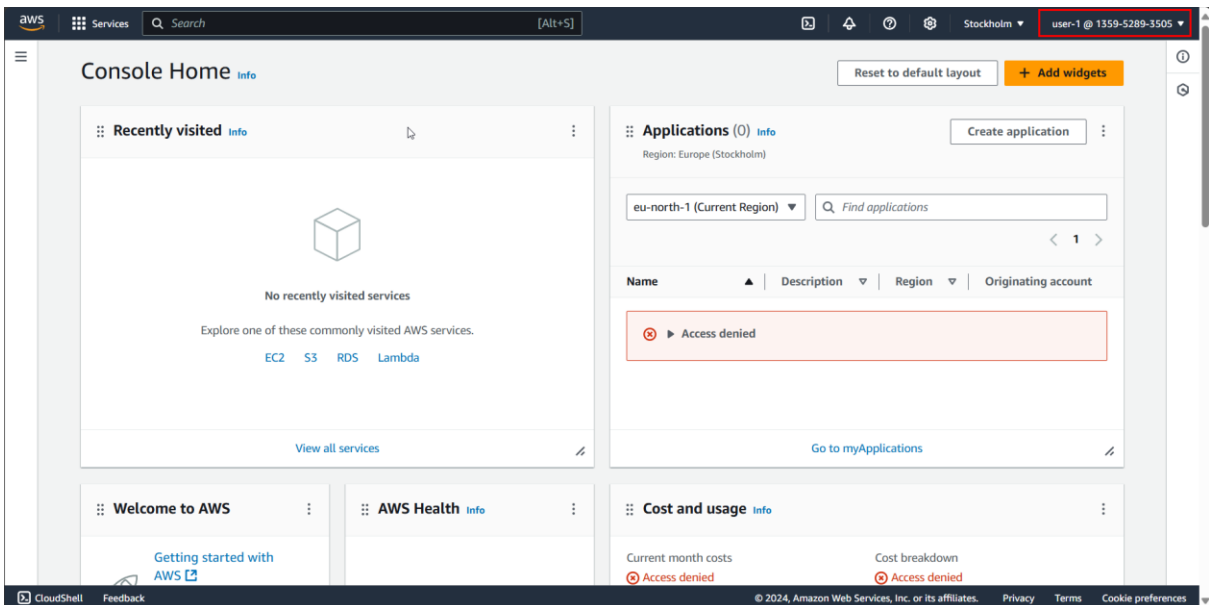


## Task 4.2: Test user-1 permissions (S3 Read-only Access)

1. Open a private or incognito window in your browser.
2. Paste the sign-in link into the private browser, and press ENTER.
3. Sign in with the following credentials:
  - **IAM user name:** user-1
  - **Password:** Lab-Password1



The screenshot shows the AWS IAM console sign-in page. At the top, there is a blue banner with the text "Try the new sign in UI" and a button "Enable new sign in". Below the banner is the AWS logo and the heading "Sign in as IAM user". The sign-in form includes fields for "Account ID (12 digits) or account alias" (filled with "135952893505"), "IAM user name" (filled with "user-1"), and "Password" (masked with "\*\*\*\*\*"). There is a checkbox for "Remember this account" and a "Sign in" button. Below the button are links for "Sign in using root user email" and "Forgot password?". To the right of the form is a large advertisement for "Amazon Lightsail" with a robot character. At the bottom, there is a language selector set to "English".

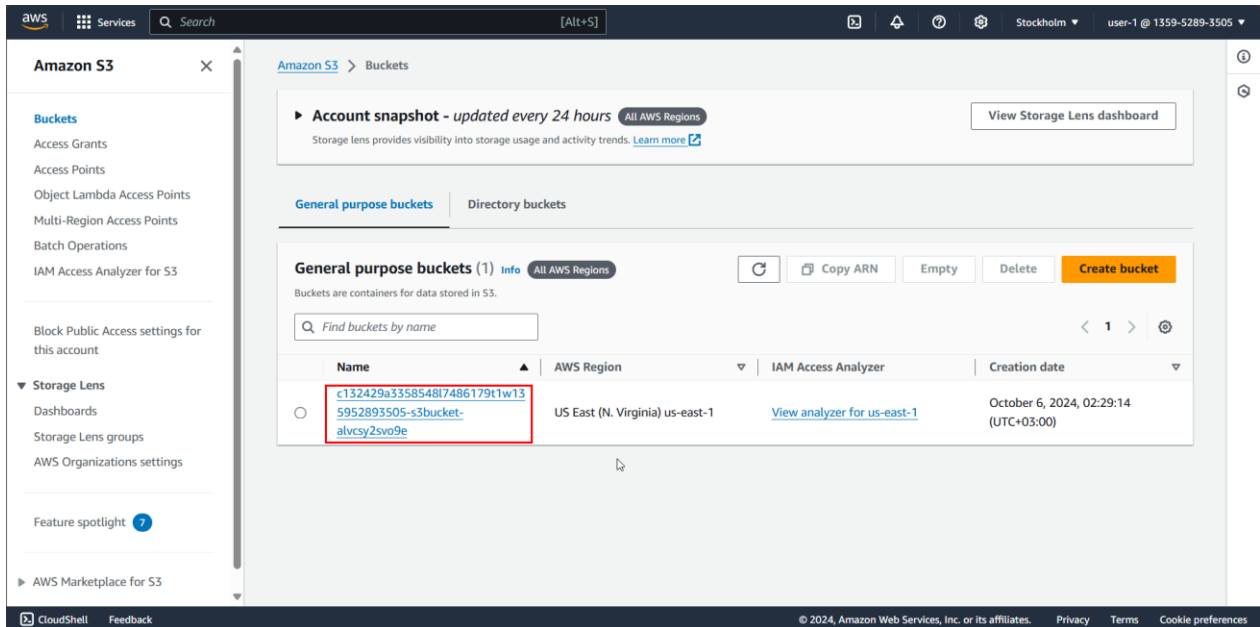
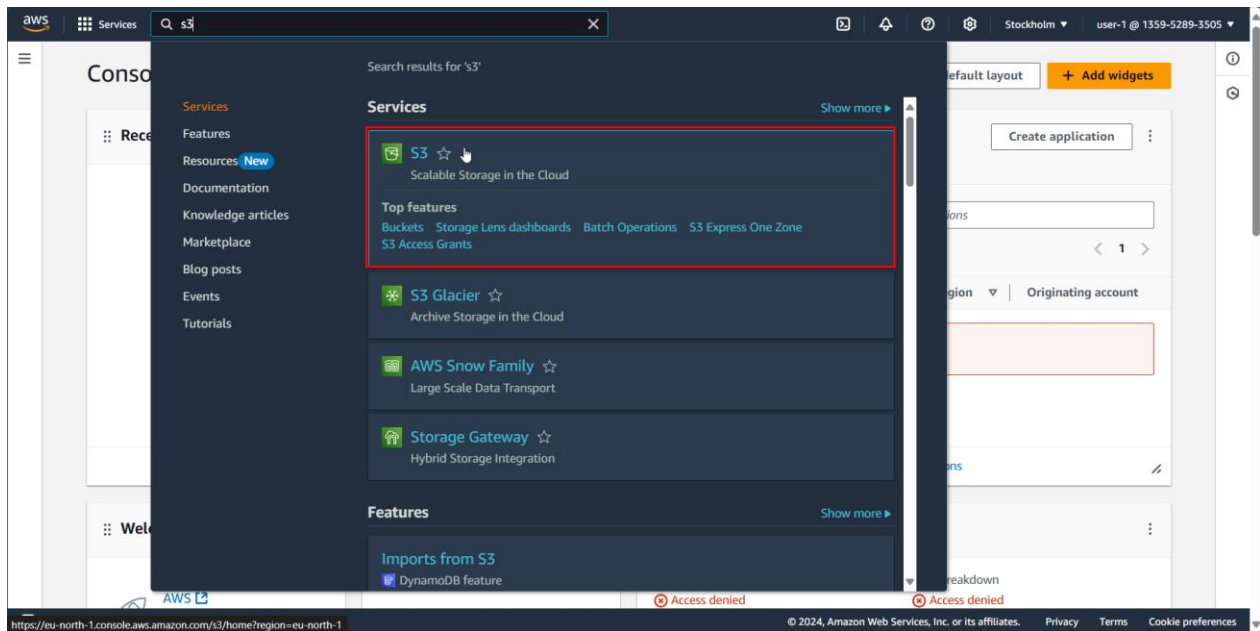


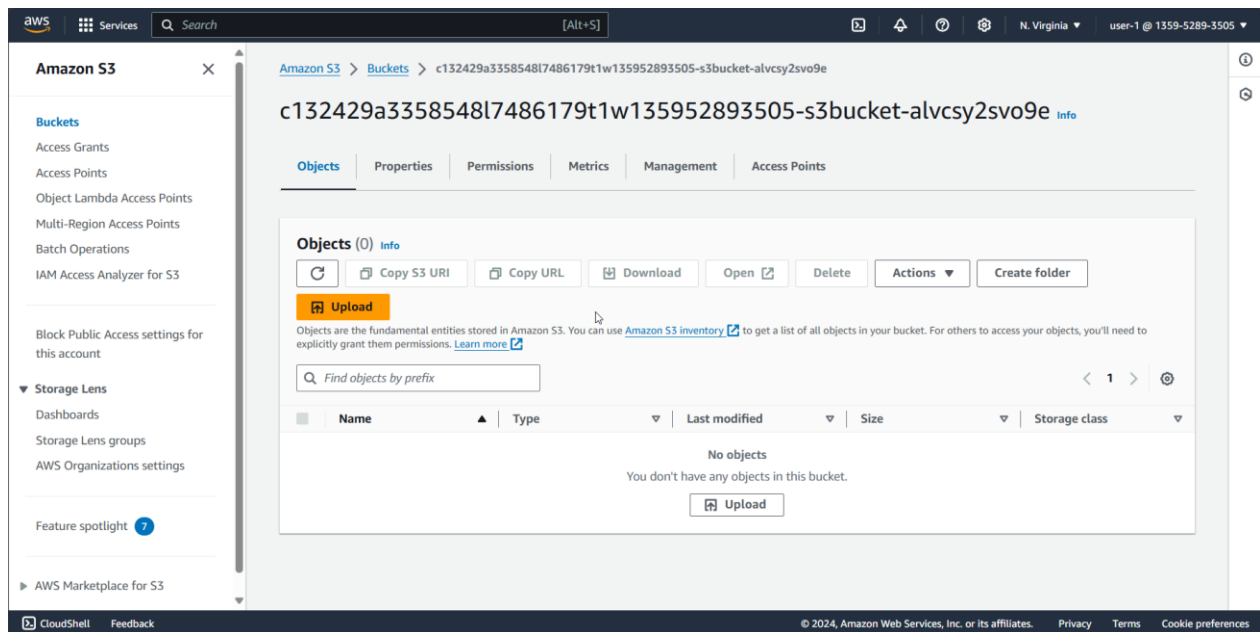
The screenshot shows the AWS Management Console Home page. The top navigation bar includes the AWS logo, "Services", a search bar, and the user profile "user-1 @ 1359-5289-3505". The main content area is divided into several sections:

- Recently visited:** A section with a cube icon and the text "No recently visited services". It lists "EC2", "S3", "RDS", and "Lambda" as commonly visited services.
- Applications (0):** A section for managing applications in the "eu-north-1 (Current Region)". It shows a table with one entry: "Access denied".
- Welcome to AWS:** A section with a "Getting started with AWS" link.
- AWS Health:** A section for monitoring the health of AWS services.
- Cost and usage:** A section showing "Current month costs" and "Cost breakdown", both with "Access denied" status.

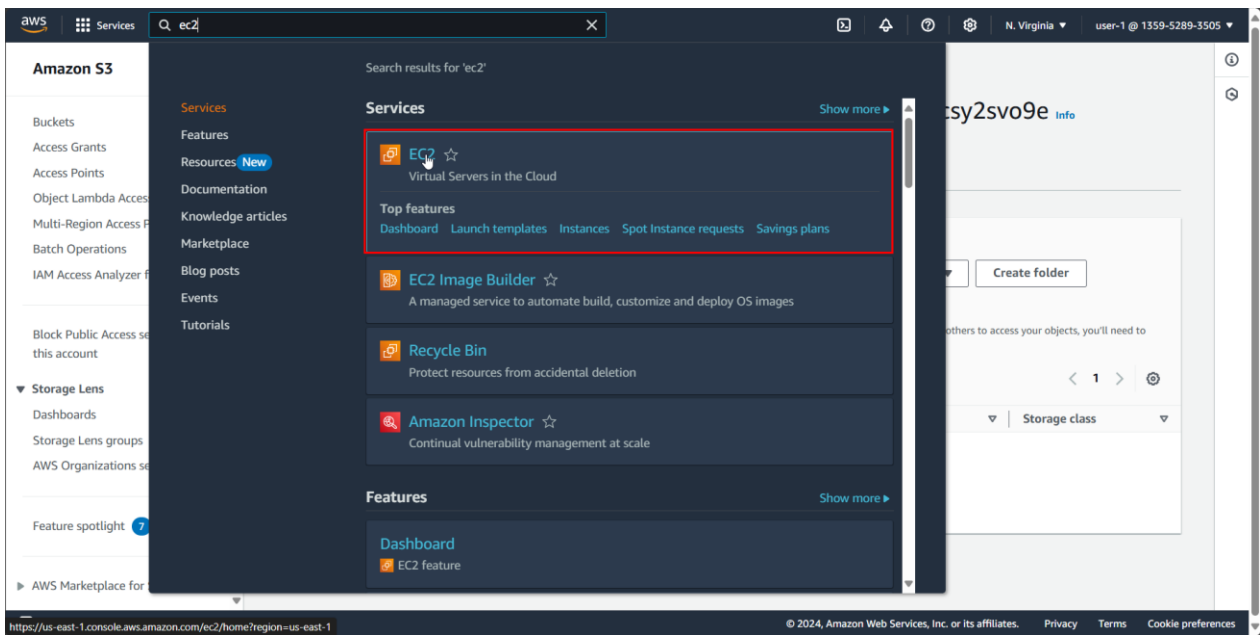
The footer includes "CloudShell", "Feedback", and copyright information for Amazon Web Services, Inc. or its affiliates.

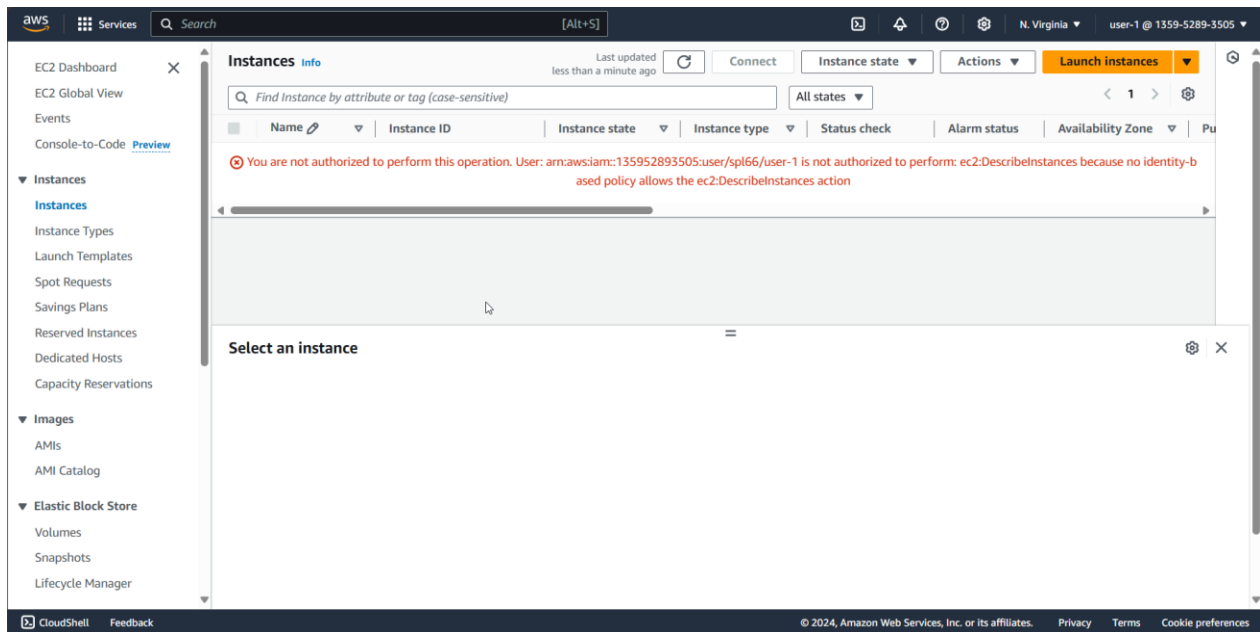
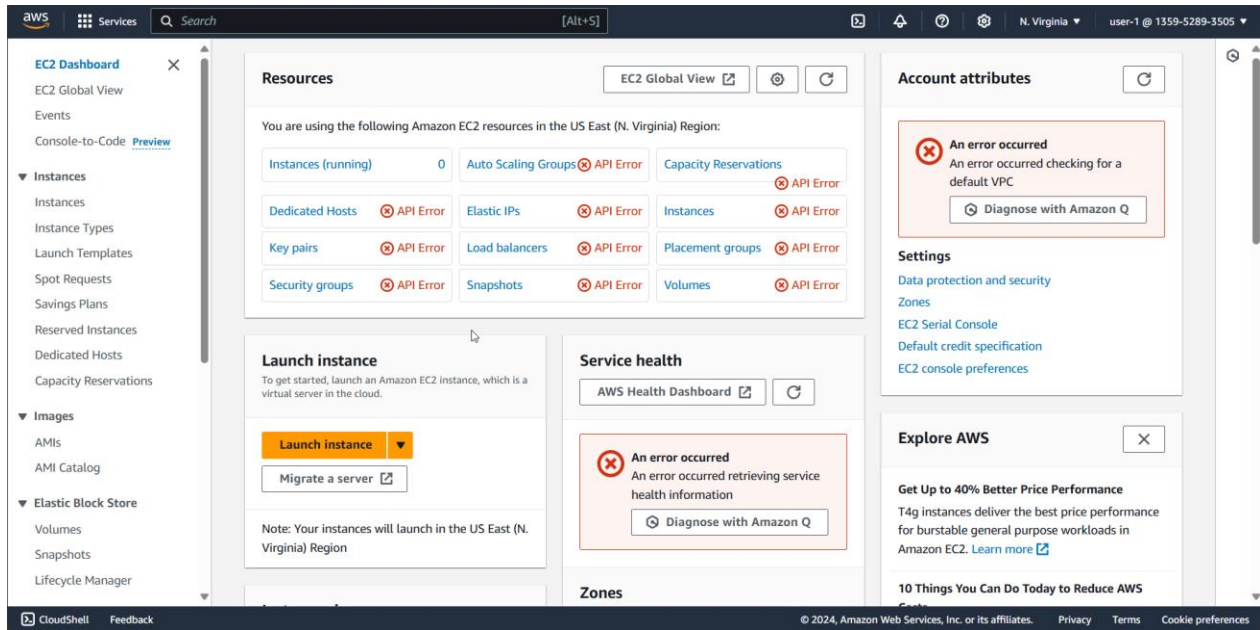
4. Navigate to the **S3 service** and try to list buckets.





5. Try to perform any write operations (like read ec2 instance), which should fail due to user-1 has **AmazonS3ReadOnlyAccess** policy

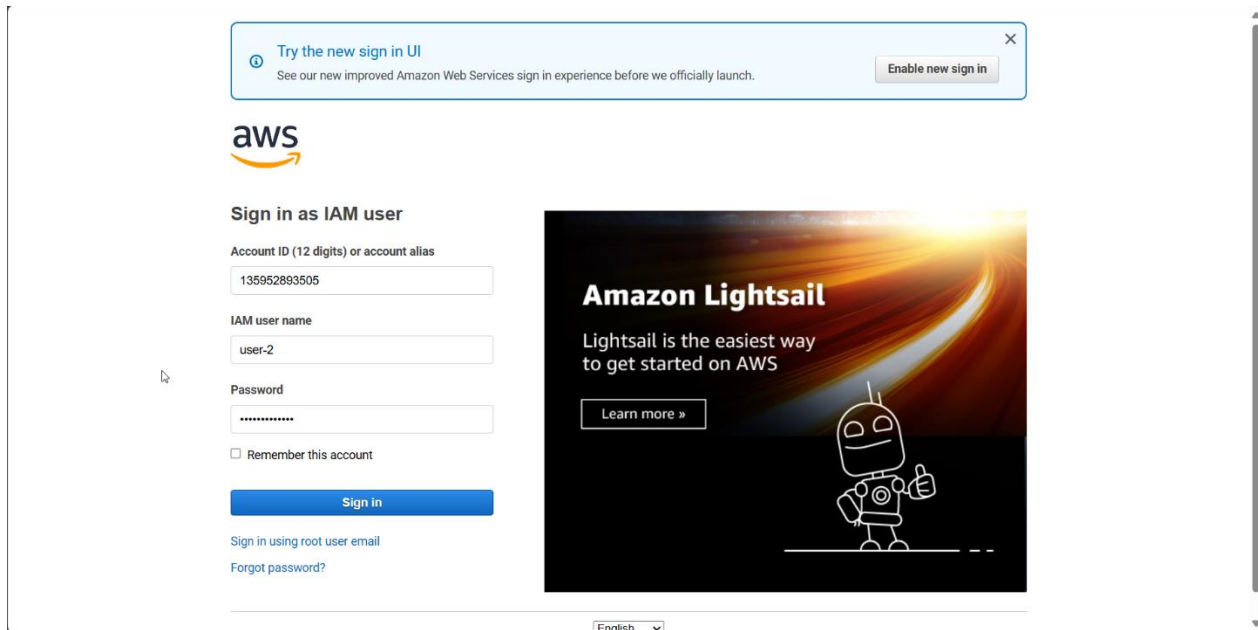




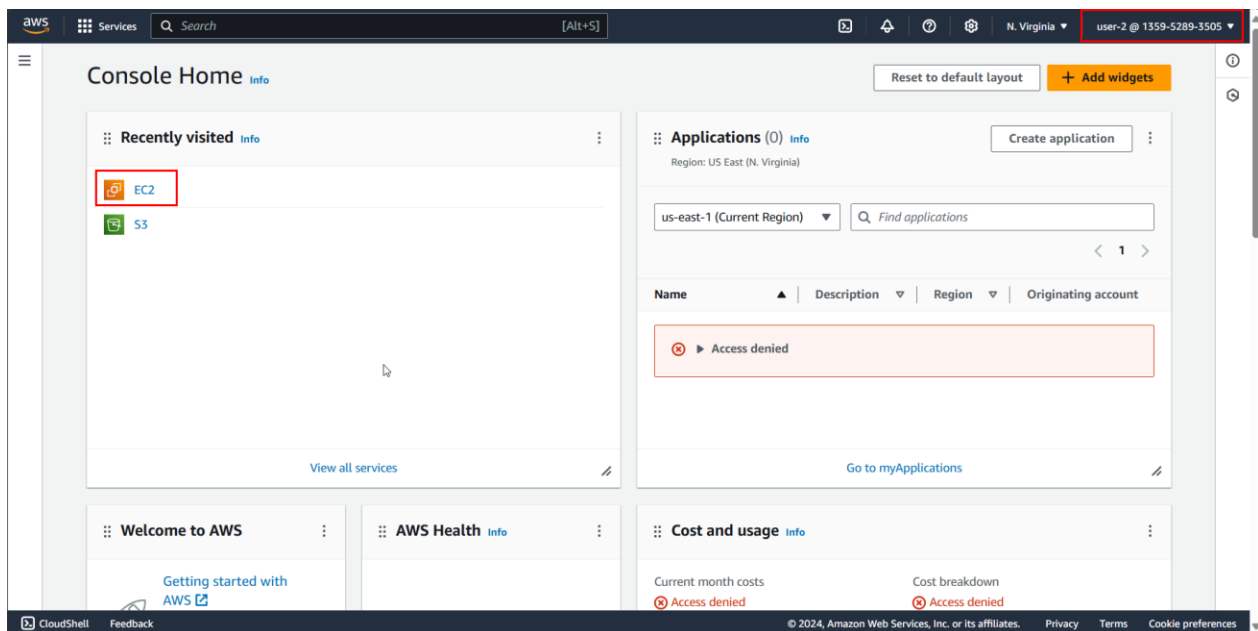
## Task 4.3: Test user-2 permissions (EC2 Read-only Access)

1. Sign in with the following credentials:

- **IAM user name:** user-2
- **Password:** Lab-Password2



2. .Navigate to the **EC2 service**. You are now able to see an EC2 instance. However, you cannot make any changes to Amazon EC2 resources because you have read-only permissions





EC2 Dashboard

EC2 Global View

Events

Console-to-Code [Preview](#)

▼ Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

▼ Images

AMIs

AMI Catalog

▼ Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Resources

EC2 Global View

You are using the following Amazon EC2 resources in the US East (N. Virginia) Region:

Instances (running)	1	Auto Scaling Groups	0	Capacity Reservations	0
Dedicated Hosts	0	Elastic IPs	0	Instances	1
Key pairs	1	Load balancers	0	Placement groups	0
Security groups	3	Snapshots	0	Volumes	1

Launch instance

To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

Launch instance

Migrate a server

Note: Your instances will launch in the US East (N. Virginia) Region

Service health

AWS Health Dashboard

An error occurred

An error occurred retrieving service health information

Diagnose with Amazon Q

Account attributes

Default VPC

vpc-0fcec44ed434b803c

Settings

Data protection and security

Zones

EC2 Serial Console

Default credit specification

EC2 console preferences

Explore AWS

10 Things You Can Do Today to Reduce AWS Costs

Explore how to effectively manage your AWS costs without compromising on performance or capacity. [Learn more](#)

Enable Best Price-Performance with AWS Graviton2

AWS Graviton2 powered EC2 instances enable up to 40% better price performance for a broad

CloudShell

Feedback

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EC2 Dashboard

EC2 Global View

Events

Console-to-Code [Preview](#)

▼ Instances

Instances

Instance Types

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Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

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AMIs

AMI Catalog

▼ Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Instances (1/1) Info

Last updated less than a minute ago

Connect

Instance state

Actions

Launch instances

Find Instance by attribute or tag (case-sensitive)

All states

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input checked="" type="checkbox"/>		i-07a4db06368ae8133	Running	t2.micro	2/2 checks passed	<a href="#">View alarms</a>	us-east-1a

i-07a4db06368ae8133

Details

Status and alarms

Monitoring

Security

Networking

Storage

Tags

▼ Instance summary Info

Instance ID

i-07a4db06368ae8133

Public IPv4 address

44.199.245.235 | [open address](#)

Private IPv4 addresses

10.1.11.166

IPv6 address

-

Instance state

Running

Public IPv4 DNS

ec2-44-199-245-235.compute-1.amazonaws.com | [open address](#)

Hostname type

IP name: ip-10-1-11-166.ec2.internal

Private IP DNS name (IPv4 only)

ip-10-1-11-166.ec2.internal

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#InstanceDetails:ins...

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EC2 Dashboard

EC2 > Instances > i-07a4db06368ae8133

### Instance summary for i-07a4db06368ae8133

Updated less than a minute ago

Connect Instance state Actions

Instance ID i-07a4db06368ae8133	Public IPv4 address 44.199.245.235   <a href="#">open address</a>	Private IPv4 addresses 10.1.11.166
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-44-199-245-235.compute-1.amazonaws.com   <a href="#">open address</a>
Hostname type IP name: ip-10-1-11-166.ec2.internal	Private IP DNS name (IPv4 only) ip-10-1-11-166.ec2.internal	Elastic IP addresses -
Answer private resource DNS name -	Instance type t2.micro	AWS Compute Optimizer finding User: arnaws:iam::135952893505:user/spl66/user-2 is not authorized to perform: compute-optimizer:GetEnrollmentStatus on resource: * because no identity-based policy allows the compute-optimizer:GetEnrollmentStatus action <a href="#">Retry</a>
Auto-assigned IP address 44.199.245.235 [Public IP]	VPC ID vpc-0dc9a423ddeb5967b (Lab VPC)	Auto Scaling Group name -
IAM Role -	Subnet ID subnet-0ab4368c5fdf0b266 (Public Subnet 1)	
IMDSv2	Instance ARN	

CloudShell Feedback

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EC2 Dashboard

EC2 > Instances > i-07a4db06368ae8133

### Instances (1/1)

Last updated 1 minute ago

Connect Instance state Actions Launch instances

Find Instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type
i-07a4db06368ae8133	i-07a4db06368ae8133	Running	t2.micro

i-07a4db06368ae8133

Details Status and alarms Monitoring Security Networking Storage Tags

#### Instance summary

Instance ID i-07a4db06368ae8133	Public IPv4 address 44.199.245.235   <a href="#">open address</a>	Private IPv4 addresses 10.1.11.166
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-44-199-245-235.compute-1.amazonaws.com   <a href="#">open address</a>
Hostname type IP name: ip-10-1-11-166.ec2.internal	Private IP DNS name (IPv4 only) ip-10-1-11-166.ec2.internal	

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- Lifecycle Manager

Instances (1/1) info

Find instance by attribute or tag (non-sensitive) All states

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 address
	i-07a4db06368ae8133	Running	t2.micro	2/2 checks passed	View alarms	us-east-1a	ec2-44-199-245-235.compute-1.amazonaws.com

**Stop instance**

Stopping your instance allows you to reduce costs, modify settings, and troubleshoot problems.

Instance ID: i-07a4db06368ae8133 Stop protection: Off (Can stop instance)

**You will be billed for associated resources**

After you stop the instance, you are no longer charged usage or data transfer fees for it. However, you will still be billed for associated Elastic IP addresses and EBS volumes.

Associated resources

You will continue to incur charges for these resources while the instance is stopped

Cancel Stop

Instance summary info

Instance ID: i-07a4db06368ae8133

IPv6 address: -

Instance state: Running

Public IPv4 DNS: ec2-44-199-245-235.compute-1.amazonaws.com | open address

Private IP DNS name (IPv4 only): ip-10-1-11-166.ec2.internal

IP name: ip-10-1-11-166.ec2.internal

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**Failed to stop the instance i-07a4db06368ae8133**

You are not authorized to perform this operation. User: am:awsiam:135952893505:user/spl66/user-2 is not authorized to perform: ec2:StopInstances on resource: am:aws:ec2:us-east-1:135952893505:instance/i-07a4db06368ae8133 because no identity-based policy allows the ec2:StopInstances action. Encoded authorization failure message: KngriHk8j4HVP1mE48np4OwTeknavtJfFrocqu8WkyQKPKUJsc5VE98Wflpn\_rosf8QrMUbrszHgXEB63ITqbQb6h5s0opGo89Wb4S4V6w7z48uAMiF5AQyfb8y9hK8crJfzG72gWMzlr9L9e0KgNa6lcfylsfaWEyX7149\_-5zsNxiWu15XbuABWYTSa0aGLNgz27p-FNOVclkoipgfrkv4YN0mJf4bQ2Bsq7ZvqKfuqPdrqajOICObE\_N1\_o3FFKKzYn6z92cEU5fgfwgcYlvS9mp\_8vbPVG7l7dOFKeAYwa3ip1h2dTLPLiO6lyxVfyq2R9WtMlmEU8Fa6OMtJCide9EVy4qfGcaCwAo-Vb5PDy6mMpCWYPM625H2q2KW7ADKfz08JTsKngHk\_2FacSuNC5fglRzXi6VWhPSNAS2rOkRGpG-A8-ykz9RstDRNwFH8E540FshQibk3q4gGx20szBYdbzVlssDkuklyDCFG8jc6imAz4\_XMkDarExJUKLSpVNH\_v2yvPFTGVLQj4OPOGdbZ9Q6oYDjojoyvsCu755du8w5qbp0\_JoM9vSbw80Zed4stmNlcjrzcSQ6oldf1BEF4HmWZhtMxIXYOLDXNctrH4N63PUkk1CvrbxbiUrmVfV-X75aBwdzmtaZqQlj5j4VDl9CtRLxELLoXRqmG9RJc5a80SeyCdBd4hXbZ1du3i9MYXachnrfz80H6\_OZCnPFjJ64G20HXAUJkgyklyFTmVob0oN7F1UmGvZ53VsevbU6IX9JfOFWGBzOOzt32dX1tRdOIXPTZn3kL8Y3ldF80cZW\_RPDLwLc4uzRAP3t2Q1DXm5E11cyPH-VH3BP9LR78A4igljbf\_-Dj8Q9NwKkNYbkJ8QikRa2f\_eDXdVce6Pko2VxXIDPewYB0nJcmWuLHqTKBUDdmy-NKYvsPMeSgk-bVvK0qpXCLvQh3L6T120Vxtu9gA57oKkInmQAQ6cSNMQOzBbiQ6bmVWuWSlIXTFwnAWYGEq33-sICfo

**i-07a4db06368ae8133**

Details Status and alarms Monitoring Security Networking Storage Tags

▼ Instance summary info

Instance ID: i-07a4db06368ae8133

IPv6 address: -

Instance state: Running

Hostname type: IP name: ip-10-1-11-166.ec2.internal

Public IPv4 address: 44.199.245.235 | open address

Private IPv4 addresses: 10.1.11.166

Public IPv4 DNS: ec2-44-199-245-235.compute-1.amazonaws.com | open address

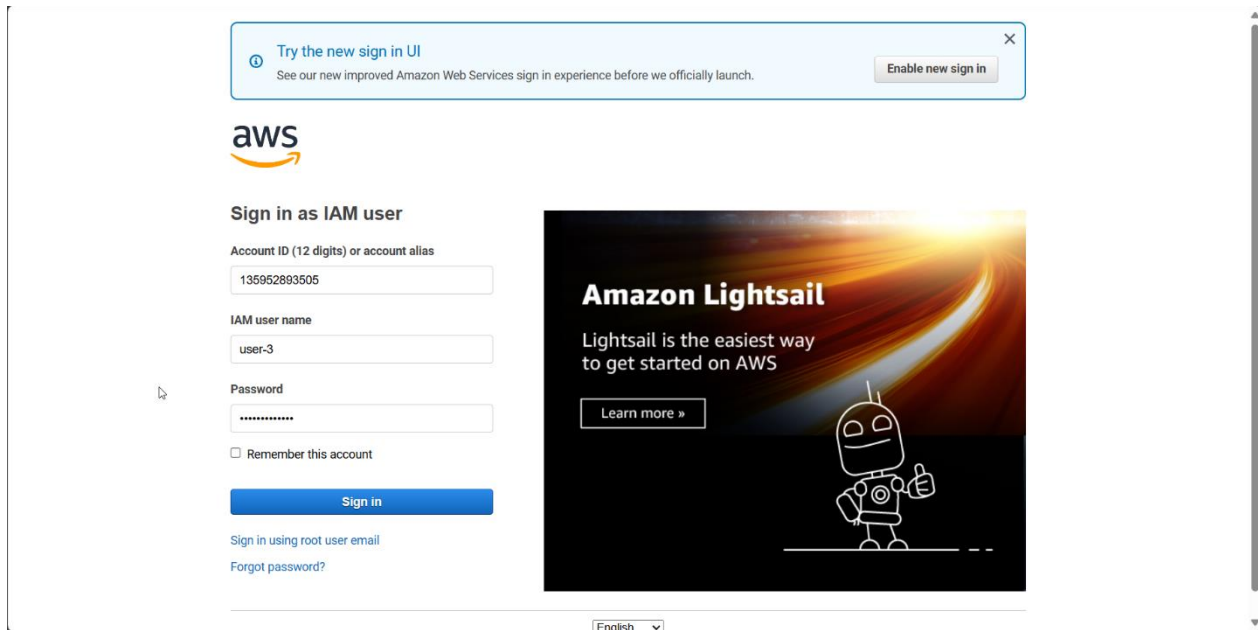
Private IP DNS name (IPv4 only): ip-10-1-11-166.ec2.internal

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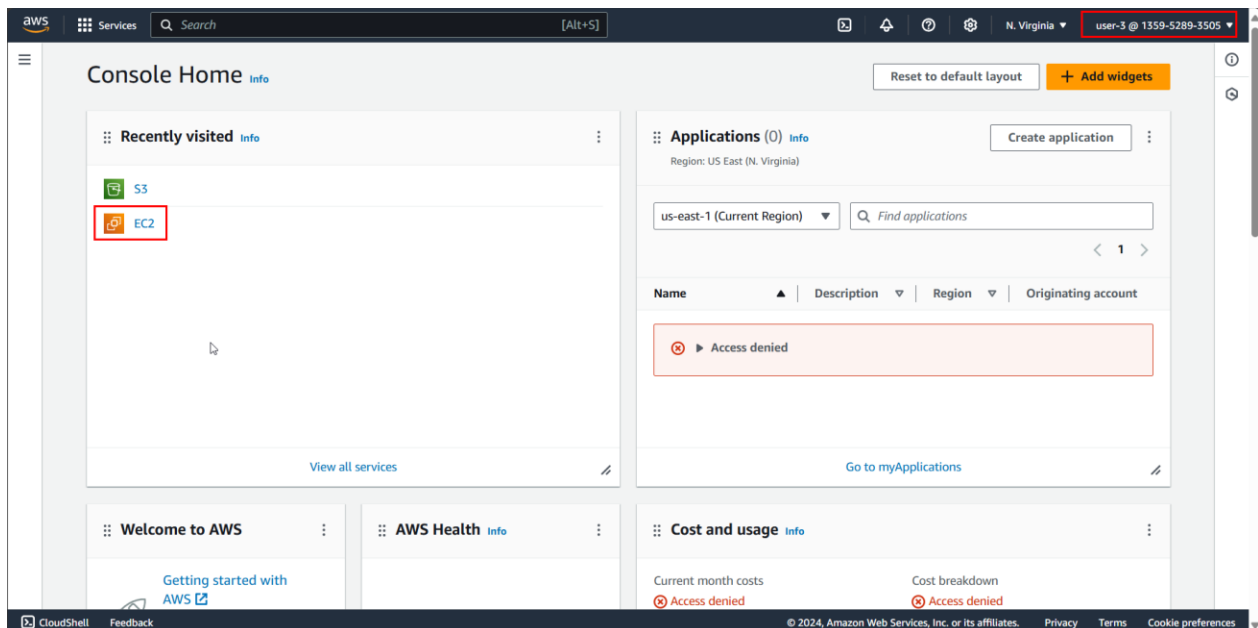
## Task 4.4: Test user-3 permissions (EC2 Admin Access)

1. Sign in with the following credentials:

- **IAM user name:** user-3
- **Password:** Lab-Password3



2. Navigate to the **EC2 service**. An EC2 instance is listed. As an Amazon EC2 Administrator, this user should have permissions to *Stop* the EC2 instance.



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Instances

Instances (1/1) info

Find Instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type
	i-07a4db06368ae8133	Running	t2.micro

Instance state

- Stop instance
- Start instance
- Reboot instance
- Hibernate instance
- Terminate (delete) instance

i-07a4db06368ae8133

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary info

Instance ID i-07a4db06368ae8133

Public IPv4 address 44.199.245.235 | open address

Private IPv4 addresses 10.1.11.166

Instance state Running

Public IPv4 DNS ec2-44-199-245-235.compute-1.amazonaws.com | open address

Private IP DNS name (IPv4 only) ip-10-1-11-166.ec2.internal

IP name: ip-10-1-11-166.ec2.internal

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Instances

Instances (1/1) info

Find Instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
	i-07a4db06368ae8133	Running	t2.micro	2/2 checks passed	OK	us-east-1a	ec2-44-199-245-235.compute-1.amazonaws.com

Stop instance

Stopping your instance allows you to reduce costs, modify settings, and troubleshoot problems.

Instance ID i-07a4db06368ae8133

Stop protection Off (Can stop instance)

**You will be billed for associated resources**

After you stop the instance, you are no longer charged usage or data transfer fees for it. However, you will still be billed for associated Elastic IP addresses and EBS volumes.

Associated resources

You will continue to incur charges for these resources while the instance is stopped

Cancel Stop

i-07a4db06368ae8133

Instance summary info

Instance ID i-07a4db06368ae8133

Public IPv4 address 44.199.245.235 | open address

Private IPv4 addresses 10.1.11.166

Instance state Running

Public IPv4 DNS ec2-44-199-245-235.compute-1.amazonaws.com | open address

Private IP DNS name (IPv4 only) ip-10-1-11-166.ec2.internal

IP name: ip-10-1-11-166.ec2.internal

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Successfully initiated stopping of i-07a4db06368ae8133

Instances (1/1) Info

Last updated less than a minute ago

Connect

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Find Instance by attribute or tag (case-sensitive)

All states

☒

Name

☒

Instance ID

☒

Instance state

☒

Instance type

☒

Status check

☒

Alarm status

☒

Availability Zone

☒

Public IP address

☒

i-07a4db06368ae8133

☒

Stopping

☒

t2.micro

☒

2/2 checks passed

☒

User: awscli

☒

us-east-1a

i-07a4db06368ae8133

Details

Status and alarms

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Security

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Instance summary Info

Instance ID

i-07a4db06368ae8133

IPv6 address

-

Hostname type

IP name: ip-10-1-11-166.ec2.internal

Public IPv4 address

44.199.245.235 | [open address](#)

Instance state

Stopping

Private IP DNS name (IPv4 only)

ip-10-1-11-166.ec2.internal

Private IPv4 addresses

10.1.11.166

Public IPv4 DNS

ec2-44-199-245-235.compute-1.amazonaws.com | [open address](#)

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Instances (1/1) Info

Last updated less than a minute ago

Connect

Instance state

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Launch instances

Find Instance by attribute or tag (case-sensitive)

All states

☒

Name

☒

Instance ID

☒

Instance state

☒

Instance type

☒

Status check

☒

Alarm status

☒

Availability Zone

☒

Public IP address

☒

i-07a4db06368ae8133

☒

Stopped

☒

t2.micro

☒

-

☒

User: awscli

☒

us-east-1a

i-07a4db06368ae8133

Details

Status and alarms

Monitoring

Security

Networking

Storage

Tags

Instance summary Info

Instance ID

i-07a4db06368ae8133

IPv6 address

-

Hostname type

IP name: ip-10-1-11-166.ec2.internal

Public IPv4 address

-

Instance state

Stopped

Private IP DNS name (IPv4 only)

ip-10-1-11-166.ec2.internal

Private IPv4 addresses

10.1.11.166

Public IPv4 DNS

-

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Total score	15/15
<hr/>	
[Task 2A] Check user-1 iam group	5/5
<hr/>	
[Task 2B] Check user-2 iam group	5/5
<hr/>	
[Task 2C] Check user-3 iam group	5/5
<hr/>	