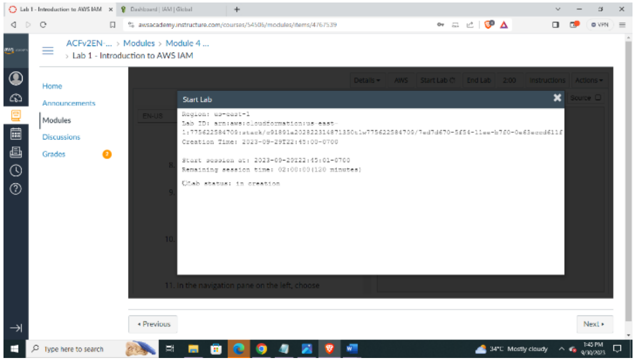
Lyka Ann C. Casita
BSIT 4-2

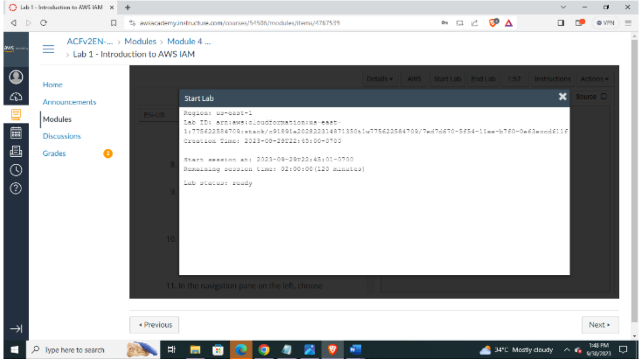
Lab 1: Introduction to AWS IAM


Lab 1 - Introduction to AWS IAM
Dashboard | IAM | Global
awsacademy.instructure.com/courses/54506/modules/items/4767539
ACFv2EN-... > Modules > Module 4 ...
> Lab 1 - Introduction to AWS IAM
Home
Announcements
Modules
Discussions
Grades
Details ▾
AWS
Start Lab
End Lab
2:00
Instructions
Actions ▾
Start Lab
Source
11. In the navigation pane on the left, choose
‹ Previous
Next ›
Type here to search
34°C Mostly cloudy

```
Region: us-east-1
Lab ID: arn:aws:cloudformation:us-east-
1:775622584709:stack/c91891a2028223148713 50t1w775622584709/7ed7d670-5f54-11ee-b7f0-0e63eccd611f
Creation Time: 2023-09-29T22:45:00-0700

Start session at: 2023-09-29T22:45:01-0700
Remaining session time: 02:00:00(120 minutes)

Lab status: in creation
```


Lab 1 - Introduction to AWS IAM
awsacademy.instructure.com/courses/54506/modules/items/4767539
ACFv2EN-... > Modules > Module 4 ...
> Lab 1 - Introduction to AWS IAM
Home
Announcements
Modules
Discussions
Grades
Details ▾
AWS
Start Lab
End Lab
1:57
Instructions
Actions ▾
Start Lab
Source
11. In the navigation pane on the left, choose
‹ Previous
Next ›
Type here to search
34°C Mostly cloudy

```
Region: us-east-1
Lab ID: arn:aws:cloudformation:us-east-
1:775622584709:stack/c91891a2028223148713 50t1w775622584709/7ed7d670-5f54-11ee-b7f0-0e63eccd611f
Creation Time: 2023-09-29T22:45:00-0700

Start session at: 2023-09-29T22:45:01-0700
Remaining session time: 02:00:00(120 minutes)

Lab status: ready
```

Task 1: Explore the Users and Groups

In this task, you will explore the Users and Groups that have already been created for you in IAM.

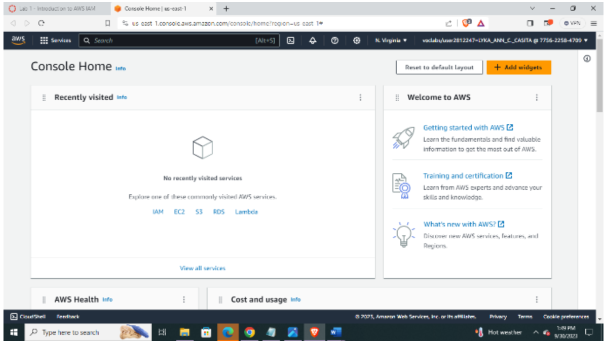
In the **AWS Management Console**, on the **Services** menu, select **IAM**.In the navigation pane on the left, choose **Users**.

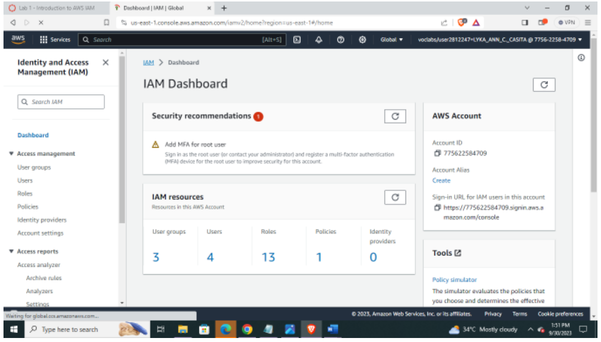
The following IAM Users have been created for you:

- user-1
- user-2
- user-3

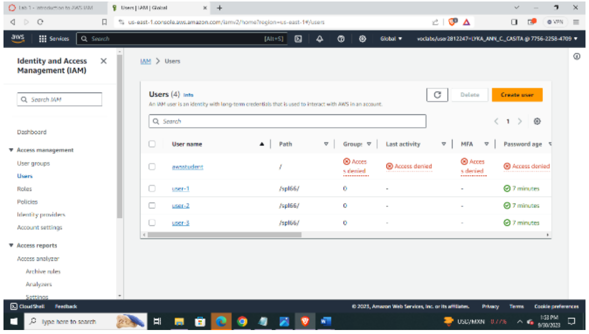
Choose **user-1**.

This will bring to a summary page for user-1. The **Permissions** tab will be displayed.


Lab 1 - Introduction to AWS IAM
Console Home | us-east-1
us-east-1.console.aws.amazon.com/console/home?region=us-east-1#
aws
Services
Search
[Alt+S]
N. Virginia ▾
voclabs/user2812247=LYKA_ANN_C._CASITA @ 7756-2258-4709 ▾
Console Home Info
Reset to default layout
+ Add widgets
Recently visited Info
No recently visited services
Explore one of these commonly visited AWS services.
IAM
EC2
S3
RDS
Lambda
View all services
Welcome to AWS
Getting started with AWS
Learn the fundamentals and find valuable information to get the most out of AWS.
Training and certification
Learn from AWS experts and advance your skills and knowledge.
What's new with AWS?
Discover new AWS services, features, and Regions.
AWS Health Info
Cost and usage Info
CloudShell
Feedback
© 2023, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Type here to search
Hot weather


Lab 1 - Introduction to AWS IAM
Dashboard | IAM | Global
us-east-1.console.aws.amazon.com/iamv2/home?region=us-east-1#/home
aws
Services
Search
[Alt+S]
Global ▾
voclabs/user2812247=LYKA_ANN_C._CASITA @ 7756-2258-4709 ▾
Identity and Access Management (IAM)
Search IAM
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Access reports
Access analyzer
Archive rules
Analyzers
Settings
IAM > Dashboard
IAM Dashboard
Security recommendations
Add MFA for root user
Sign in as the root user (or contact your administrator) and register a multi-factor authentication (MFA) device for the root user to improve security for this account.
IAM resources
Resources in this AWS Account
AWS Account
Account ID
775622584709
Account Alias
Create
Sign-in URL for IAM users in this account
https://775622584709.signin.aws.amazon.com/console
Tools
Policy simulator
The simulator evaluates the policies that you choose and determines the effective
© 2023, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Type here to search
34°C Mostly cloudy

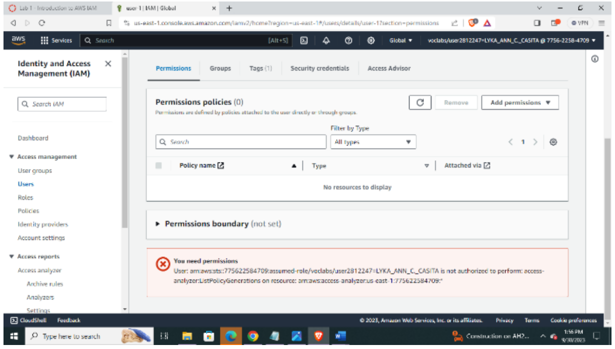
User groups	Users	Roles	Policies	Identity providers
3	4	13	1	0



Users (4) Info

An IAM user is an identity with long-term credentials that is used to interact with AWS in an account.

User name	Path	Groups	Last activity	MFA	Password age
awsstudent	/	Access denied	Access denied	Access denied	Access denied
user-1	/spl66/	0	-	-	7 minutes
user-2	/spl66/	0	-	-	7 minutes
user-3	/spl66/	0	-	-	7 minutes



Permissions policies (0)

Permissions are defined by policies attached to the user directly or through groups.

Policy name	Type	Attached via
No resources to display		

Permissions boundary (not set)

You need permissions

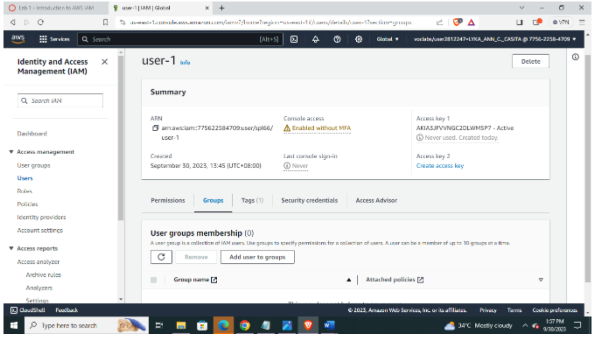
User: arn:aws:sts::775622584709:assumed-role/voclabs/user2812247=LYKA_ANN_C._CASITA is not authorized to perform: access-analyzer:ListPolicyGenerations on resource: arn:aws:access-analyzer:us-east-1:775622584709:*

Notice that user-1 does not have any permissions. Choose the **Groups** tab.user-1 also is not a member of any groups. Choose the **Security credentials** tab. user-1 is assigned a **Console password**

In the navigation pane on the left, choose **User groups**.

The following groups have already been created for you:

- EC2-Admin
- EC2-Support
- S3-Support



user-1 Info

Summary

ARN: arn:aws:iam::775622584709:user/spl66/user-1

Console access: Enabled without MFA

Access key 1: AKIA3JFVVNGC2DLWM5P7 - Active — Never used. Created today.

Created: September 30, 2023, 13:45 (UTC+08:00)

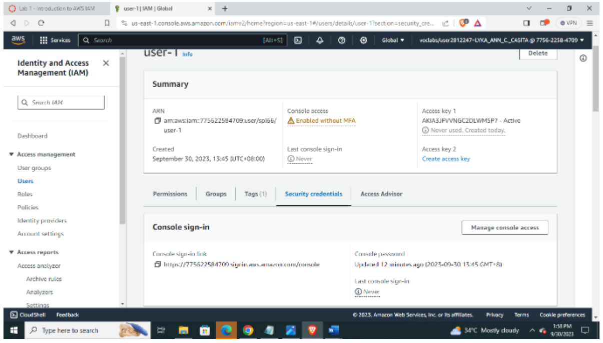
Last console sign-in: Never

Access key 2: Create access key

User groups membership (0)

A user group is a collection of IAM users. Use groups to specify permissions for a collection of users. A user can be a member of up to 10 groups at a time.

Group name	Attached policies



user-1 Info

Summary

ARN: arn:aws:iam::775622584709:user/spl66/user-1

Console access: Enabled without MFA

Access key 1: AKIA3JFVVNGC2DLWM5P7 - Active — Never used. Created today.

Created: September 30, 2023, 13:45 (UTC+08:00)

Last console sign-in: Never

Access key 2: Create access key

Console sign-in

Console sign-in link: https://775622584709.signin.aws.amazon.com/console

Console password: Updated 12 minutes ago (2023-09-30 13:45 GMT+8)

Last console sign-in: Never

Choose the **EC2-Support** group.

This will bring you to the summary page for the **EC2-Support** group.

Choose the **Permissions** tab.

This group has a Managed Policy associated with it, called **AmazonEC2ReadOnlyAccess**. Managed Policies are pre-built policies (built either by AWS or by your administrators) that can be attached to IAM Users and Groups. When the policy is updated, the changes to the policy are immediately apply against all Users and Groups that are attached to the policy.

Choose the plus (**+**) icon next to the AmazonEC2ReadOnlyAccess policy to view the policy details.

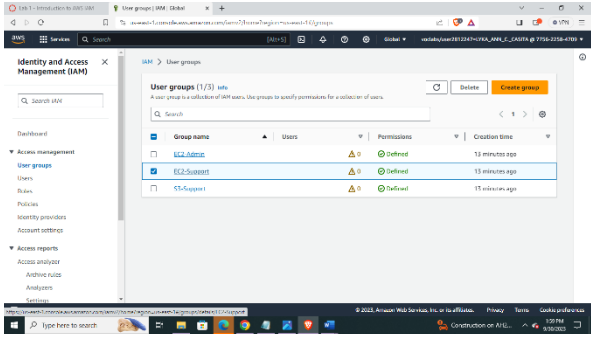
Note: A policy defines what actions are allowed or denied for specific AWS resources.

This policy is granting permission to List and Describe information about EC2, Elastic Load Balancing, CloudWatch and Auto Scaling. This ability to view resources, but not modify them, is ideal for assigning to a Support role.

The basic structure of the statements in an IAM Policy is:

- **Effect** says whether to *Allow* or *Deny* the permissions.
- **Action** specifies the API calls that can be made against an AWS Service (eg *cloudwatch:ListMetrics*).
- **Resource** defines the scope of entities covered by the policy rule (eg a specific Amazon S3 bucket or Amazon EC2 instance, or * which means *any resource*).

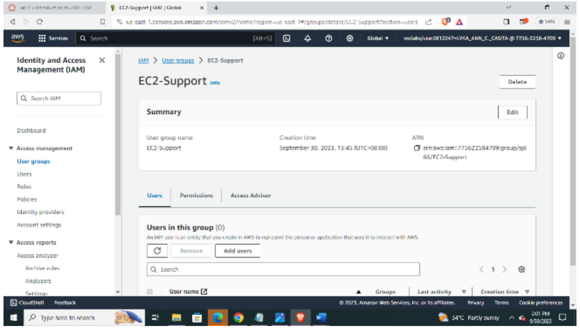
  Choose the minus icon (**-**) to hide the policy details.



User groups (1/3) Info

A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.

	Group name	Users	Permissions	Creation time
□	EC2-Admin	0	Defined	13 minutes ago
☑	EC2-Support	0	Defined	13 minutes ago
□	S3-Support	0	Defined	13 minutes ago



EC2-Support Info

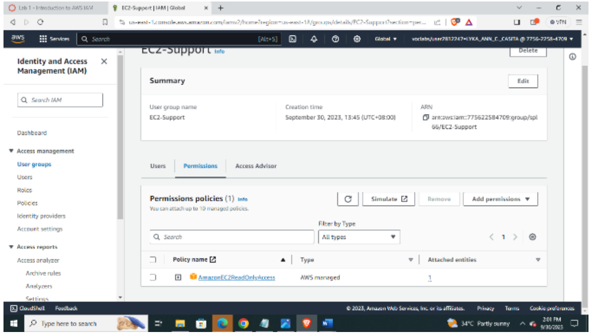
Summary

User group name: EC2-Support
Creation time: September 30, 2023, 13:45 (UTC+08:00)
ARN: arn:aws:iam::775622584709:group/spl66/EC2-Support

Users in this group (0)

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

	User name	Groups	Last activity	Creation time



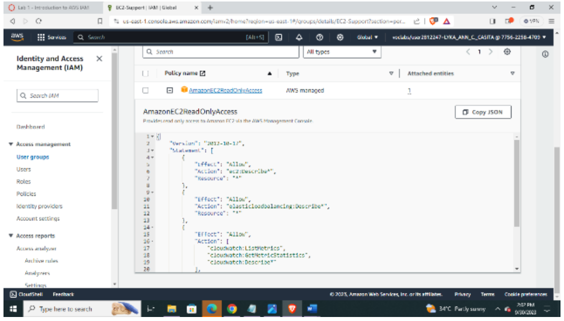
Summary

User group name: EC2-Support
Creation time: September 30, 2023, 13:45 (UTC+08:00)
ARN: arn:aws:iam::775622584709:group/spl66/EC2-Support

Permissions policies (1) Info

You can attach up to 10 managed policies.

	Policy name	Type	Attached entities
□	⊞ AmazonEC2ReadOnlyAccess	AWS managed	1



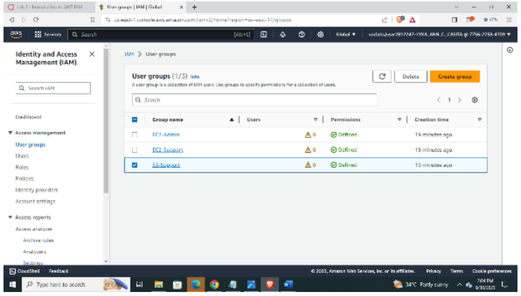
	Policy name	Type	Attached entities
□	⊟ AmazonEC2ReadOnlyAccess	AWS managed	1

AmazonEC2ReadOnlyAccess

Provides read only access to Amazon EC2 via the AWS Management Console.

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Effect": "Allow",
            "Action": "ec2:Describe*",
            "Resource": "*"
        },
        {
            "Effect": "Allow",
            "Action": "elasticloadbalancing:Describe*",
            "Resource": "*"
        },
        {
            "Effect": "Allow",
            "Action": [
                "cloudwatch:ListMetrics",
                "cloudwatch:GetMetricStatistics",
                "cloudwatch:Describe*"
            ],
```

In the navigation pane on the left, choose **User groups**. Choose the **S3-Support** group and then choose the **Permissions** tab. The S3-Support group has the **AmazonS3ReadOnlyAccess** policy attached. Choose the plus (**+**) icon to view the policy details. This policy grants permissions to Get and List resources in Amazon S3. Choose the minus icon (**-**) to hide the policy details.

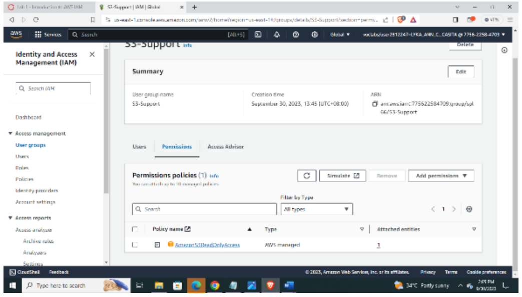


IAM > User groups

User groups (1/3) Info

A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.

	Group name	Users	Permissions	Creation time
☐	EC2-Admin	⚠ 0	✓ Defined	19 minutes ago
☐	EC2-Support	⚠ 0	✓ Defined	19 minutes ago
☑	S3-Support	⚠ 0	✓ Defined	19 minutes ago



S3-Support Info

Summary

User group name: S3-Support

Creation time: September 30, 2023, 13:45 (UTC+08:00)

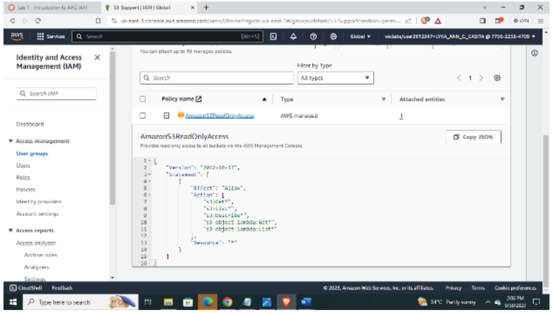
ARN: arn:aws:iam::775622584709:group/spl66/S3-Support

Permissions policies (1) Info

You can attach up to 10 managed policies.

Filter by Type: All types

	Policy name	Type	Attached entities
☐	⊞ AmazonS3ReadOnlyAccess	AWS managed	1



You can attach up to 10 managed policies.

Filter by Type: All types

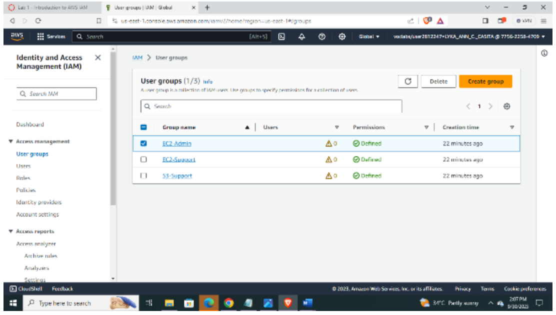
	Policy name	Type	Attached entities
☐	⊟ AmazonS3ReadOnlyAccess	AWS managed	1

AmazonS3ReadOnlyAccess

Provides read only access to all buckets via the AWS Management Console.

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Effect": "Allow",
            "Action": [
                "s3:Get*",
                "s3:List*",
                "s3:Describe*",
                "s3-object-lambda:Get*",
                "s3-object-lambda:List*"
            ],
            "Resource": "*"
        }
    ]
}
```

In the navigation pane on the left, choose **User groups**. Choose the **EC2-Admin** group and then choose the **Permissions** tab. This Group is slightly different from the other two. Instead of a *Managed Policy*, it has an **Inline Policy**, which is a policy assigned to just one User or Group. Inline Policies are typically used to apply permissions for one-off situations. Choose the plus (**+**) icon to view the policy details. This policy grants permission to view (Describe) information about Amazon EC2 and also the ability to Start and Stop instances. Choose the minus icon (**-**) to hide the policy details.

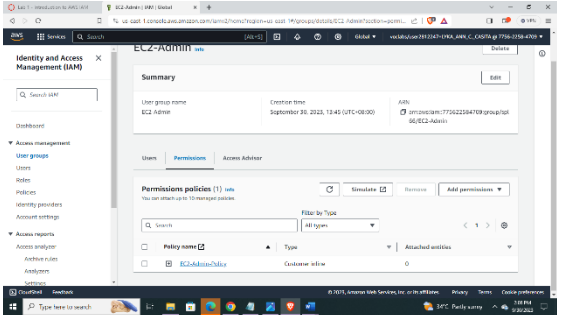


IAM > User groups

User groups (1/3) Info

A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.

	Group name	Users	Permissions	Creation time
☑	EC2-Admin	⚠ 0	✓ Defined	22 minutes ago
☐	EC2-Support	⚠ 0	✓ Defined	22 minutes ago
☐	S3-Support	⚠ 0	✓ Defined	22 minutes ago



EC2-Admin Info

Summary

User group name: EC2-Admin

Creation time: September 30, 2023, 13:45 (UTC+08:00)

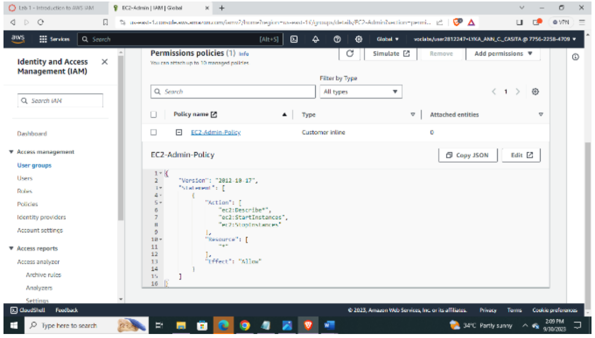
ARN: arn:aws:iam::775622584709:group/spl66/EC2-Admin

Permissions policies (1) Info

You can attach up to 10 managed policies.

Filter by Type: All types

	Policy name	Type	Attached entities
☐	⊞ EC2-Admin-Policy	Customer inline	0



Permissions policies (1)

You can attach up to 10 managed policies

Policy name	Type	Attached entities
EC2-Admin-Policy	Customer inline	0

EC2-Admin-Policy

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Action": [
                "ec2:Describe*",
                "ec2:StartInstances",
                "ec2:StopInstances"
            ],
            "Resource": [
                "*"
            ],
            "Effect": "Allow"
        }
    ]
}
```

Simulate
Remove
Add permissions
Filter by Type
All types
Copy JSON
Edit
Identity and Access Management (IAM)
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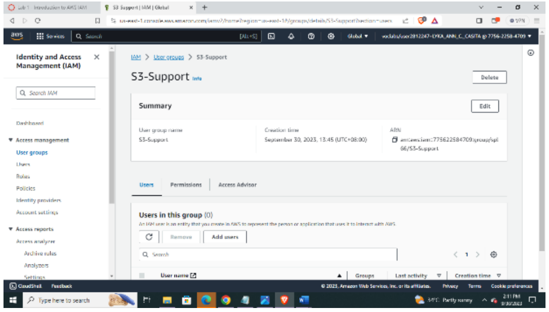
Task 2: Add Users to Groups

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

In the **Add Users to S3-Support** window, configure the following:

- Select **user-1**.
- At the bottom of the screen, choose **Add Users**.

In the **Users** tab you will see that user-1 has been added to the group.



S3-Support

Summary

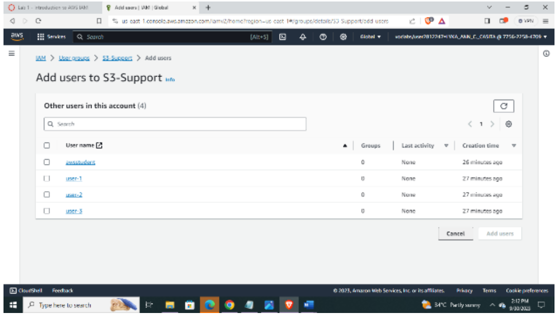
User group name: S3-Support

Creation time: September 30, 2023, 13:45 (UTC+08:00)

ARN: arn:aws:iam::775622584709:group/spl66/S3-Support

Users in this group (0)

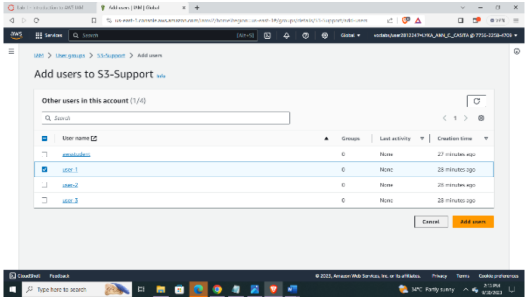
An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS.



Add users to S3-Support

Other users in this account (4)

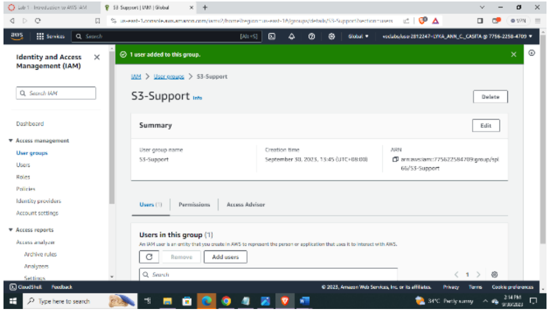
User name	Groups	Last activity	Creation time
☐ awsstudent	0	None	26 minutes ago
☐ user-1	0	None	27 minutes ago
☐ user-2	0	None	27 minutes ago
☐ user-3	0	None	27 minutes ago



Add users to S3-Support

Other users in this account (1/4)

User name	Groups	Last activity	Creation time
☐ awsstudent	0	None	27 minutes ago
☑ user-1	0	None	28 minutes ago
☐ user-2	0	None	28 minutes ago
☐ user-3	0	None	28 minutes ago



1 user added to this group.

S3-Support

Summary

User group name: S3-Support

Creation time: September 30, 2023, 13:45 (UTC+08:00)

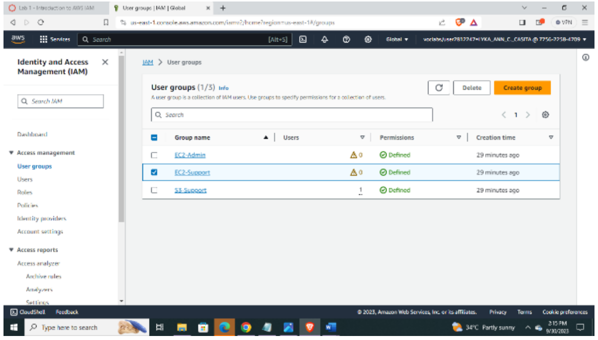
ARN: arn:aws:iam::775622584709:group/spl66/S3-Support

Users in this group (1)

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

Add user-2 to the EC2-Support Group

You have hired **user-2** into a role where they will provide support for Amazon EC2. Using similar steps to the ones above, add **user-2** to the **EC2-Support** group. user-2 should now be part of the **EC2-Support** group.

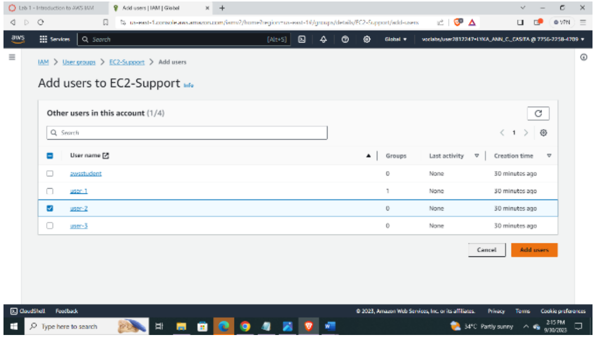


IAM > User groups

User groups (1/3)

A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.

	Group name	Users	Permissions	Creation time
□	EC2-Admin	⚠ 0	Defined	29 minutes ago
☑	EC2-Support	⚠ 0	Defined	29 minutes ago
□	S3-Support	1	Defined	29 minutes ago

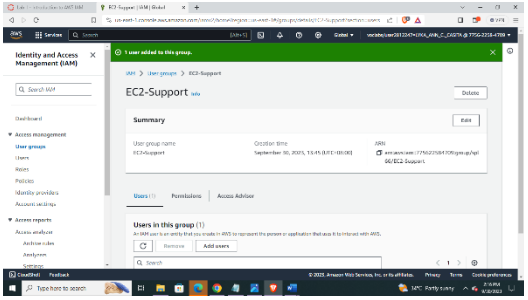


IAM > User groups > EC2-Support > Add users

Add users to EC2-Support

Other users in this account (1/4)

	User name	Groups	Last activity	Creation time
□	awsstudent	0	None	30 minutes ago
□	user-1	1	None	30 minutes ago
☑	user-2	0	None	30 minutes ago
□	user-3	0	None	30 minutes ago



1 user added to this group.

IAM > User groups > EC2-Support

EC2-Support

Summary

User group name: EC2-Support

Creation time: September 30, 2023, 13:45 (UTC+08:00)

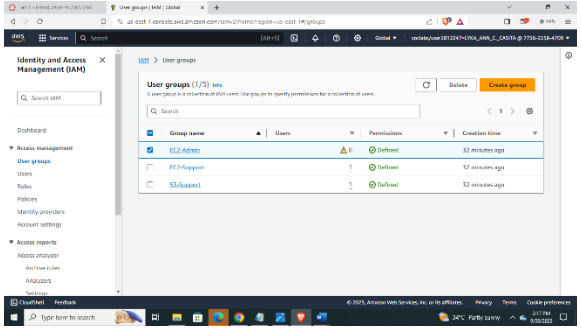
ARN: arn:aws:iam::775622584709:group/spl66/EC2-Support

Users in this group (1)

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

Add user-3 to the EC2-Admin Group

You have hired **user-3** as your Amazon EC2 administrator, who manage your EC2 instances. Using similar steps to the ones above, add **user-3** to the **EC2-Admin** group. user-3 should now be part of the **EC2-Admin** group.

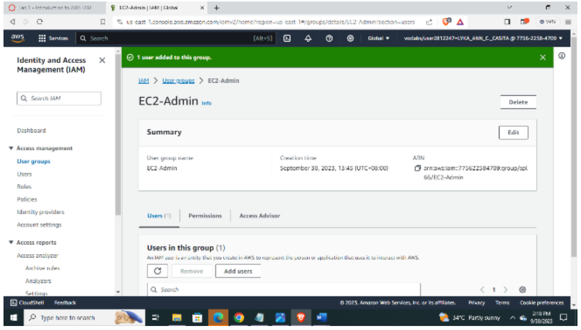


IAM > User groups

User groups (1/3)

A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.

	Group name	Users	Permissions	Creation time
☑	EC2-Admin	⚠ 0	Defined	32 minutes ago
□	EC2-Support	1	Defined	32 minutes ago
□	S3-Support	1	Defined	32 minutes ago



1 user added to this group.

IAM > User groups > EC2-Admin

EC2-Admin

Summary

User group name: EC2-Admin

Creation time: September 30, 2023, 13:45 (UTC+08:00)

ARN: arn:aws:iam::775622584709:group/spl66/EC2-Admin

Users in this group (1)

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

Task 3: 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. It will look similar to: *https://123456789012.signin.aws.amazon.com/console*

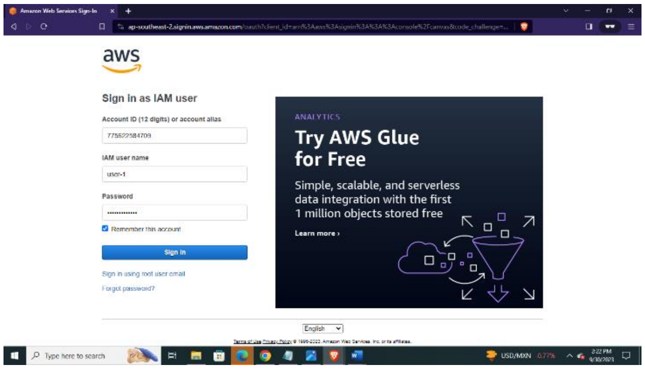
This link can be used to sign-in to the AWS Account you are currently using.

Copy the **Sign-in URL for IAM users in this account** to a text editor.

Sign-in with:

- **IAM user name:** `user-1`
- **Password:** `Lab-Password1`

In the **Services** menu, choose **S3**.



Sign in as IAM user

Account ID (12 digits) or account alias: 775622584709

IAM user name: user-1

Password: ••••••••••••••

☑ Remember this account

Sign in using root user email

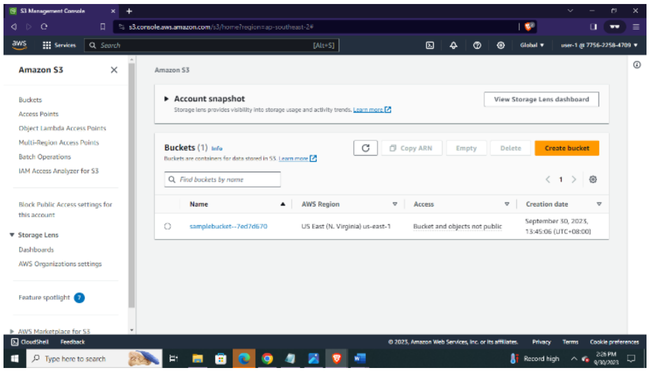
Forgot password?

ANALYTICS

Try AWS Glue for Free

Simple, scalable, and serverless data integration with the first 1 million objects stored free

Amazon Web Services Sign-In
ap-southeast-2.signin.aws.amazon.com/oauth?client_id=arn%3Aaws%3Asignin%3A%3A%3Aconsole%2Fcanvas&code_challenge=...
aws
Sign in
Learn more ›
English
Terms of Use Privacy Policy © 1996-2023, Amazon Web Services, Inc. or its affiliates.
Type here to search
USD/MXN -0.77%
2:22 PM
9/30/2023



Account snapshot

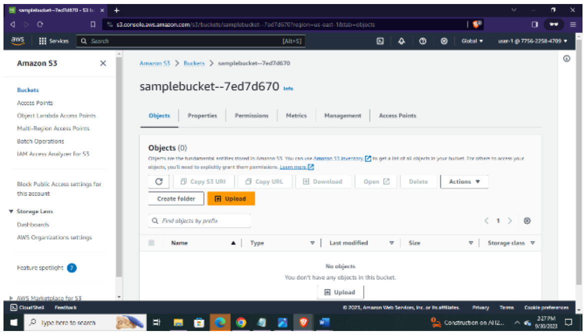
Storage lens provides visibility into storage usage and activity trends. Learn more

Buckets (1) Info

Buckets are containers for data stored in S3. Learn more

Name	AWS Region	Access	Creation date
samplebucket--7ed7d670	US East (N. Virginia) us-east-1	Bucket and objects not public	September 30, 2023, 13:45:06 (UTC+08:00)

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. Note: The bucket does not contain any objects. Now, test whether they have access to Amazon EC2.



samplebucket--7ed7d670

Objects (0)

Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more

Name	Type	Last modified	Size	Storage class

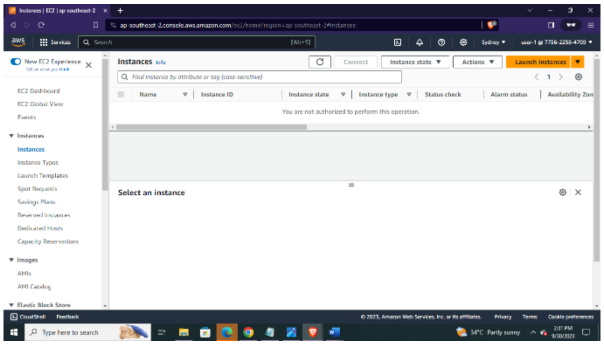
No objects

You don't have any objects in this bucket.

In the **Services** menu, choose **EC2**.

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.

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



Instances | EC2 | ap-southeast-2

ap-southeast-2.console.aws.amazon.com/ec2/home?region=ap-southeast-2#Instances:

Sydney ▾ user-1 @ 7756-2258-4709 ▾

☐	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zon

You are not authorized to perform this operation.

Select an instance

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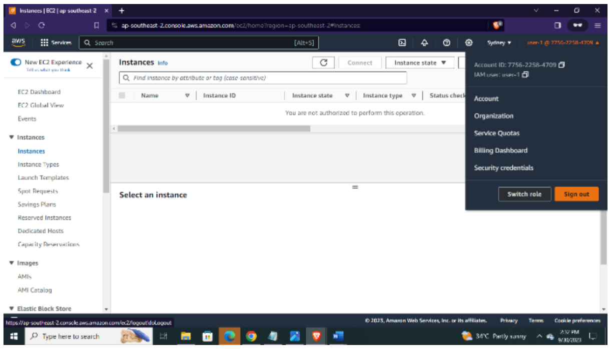

Instances | EC2 | ap-southeast-2

ap-southeast-2.console.aws.amazon.com/ec2/home?region=ap-southeast-2#Instances:

user-1 @ 7756-2258-4709 ▴

Account ID: 7756-2258-4709

IAM user: user-1

You are not authorized to perform this operation.

Select an instance

https://ap-southeast-2.console.aws.amazon.com/ec2/logout!doLogout

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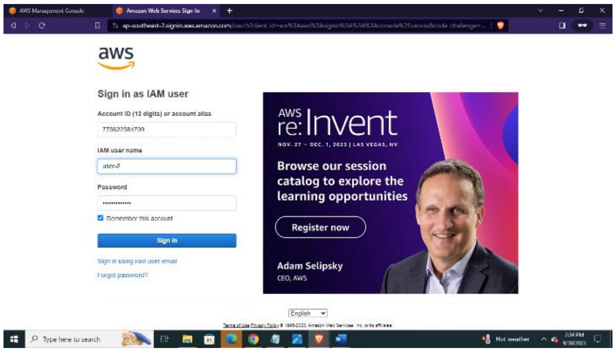
Sign-in with:

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

In the **Services** menu, choose **EC2**.



Amazon Web Services Sign In

ap-southeast-2.signin.aws.amazon.com/oauth?client_id=arn%3Aaws%3Asignin%3A%3A%3Aconsole%2Fcanvas&code_challenge=...

Sign in as IAM user

Account ID (12 digits) or account alias: 775622584709

IAM user name: user-2

Password: ••••••••••••••

☑ Remember this account

Sign in

Sign in using root user email

Forgot password?

English

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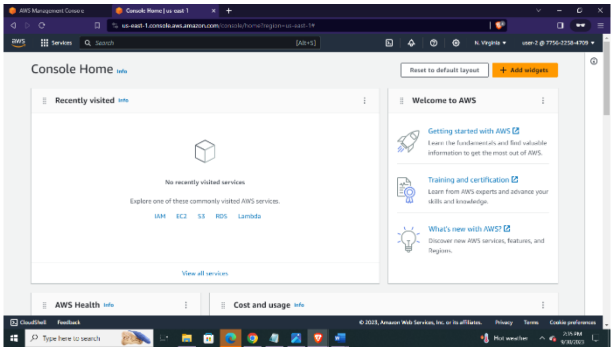

Console Home | us-east-1

us-east-1.console.aws.amazon.com/console/home?region=us-east-1#

N. Virginia ▾ user-2 @ 7756-2258-4709 ▾

Console Home

No recently visited services

Explore one of these commonly visited AWS services.

IAM EC2 S3 RDS Lambda

Getting started with AWS — Learn the fundamentals and find valuable information to get the most out of AWS.

Training and certification — Learn from AWS experts and advance your skills and knowledge.

What's new with AWS? — Discover new AWS services, features, and Regions.

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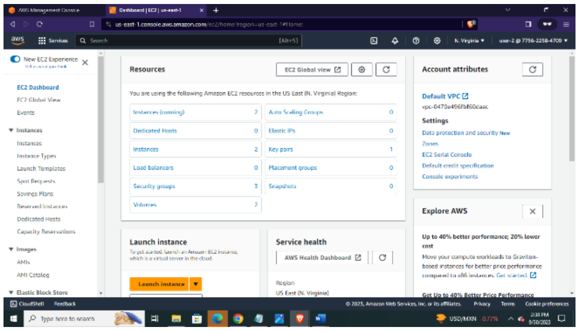

Resources

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

Instances (running)	2	Auto Scaling Groups	0
Dedicated Hosts	0	Elastic IPs	0
Instances	2	Key pairs	1
Load balancers	0	Placement groups	0
Security groups	3	Snapshots	0
Volumes	2		

Account attributes

Default VPC
vpc-0470e496fbf60daac

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

Service health
Region
US East (N. Virginia)

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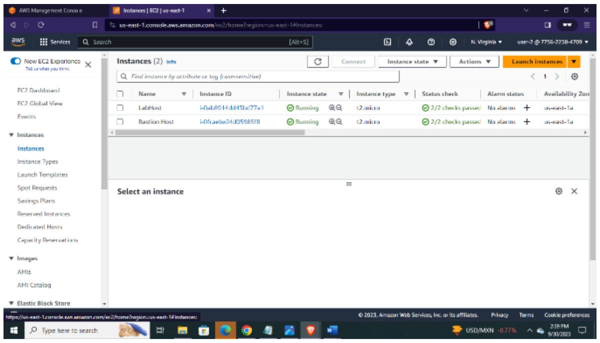
Move your compute workloads to Graviton-based instances for better price performance compared to x86 instances. Get started.

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.

If you cannot see an Amazon EC2 instance, then your Region may be incorrect. In the top-right of the screen, pull-down the Region menu and select the region that you noted at the start of the lab (for example, **N. Virginia**).

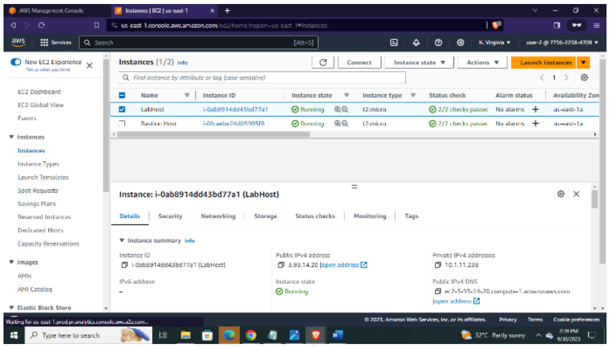
- Select the instance named *LabHost*.



Instances (2)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
LabHost	i-0ab8914dd43bd77a1	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a
Bastion Host	i-0fcaebe24d05985f8	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a

Select an instance



Instances (1/2)

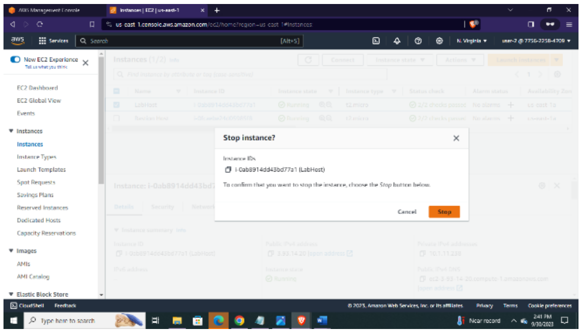
Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
☑ LabHost	i-0ab8914dd43bd77a1	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a
□ Bastion Host	i-0fcaebe24d05985f8	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a

Instance: i-0ab8914dd43bd77a1 (LabHost)

Instance summary

Instance ID: i-0ab8914dd43bd77a1 (LabHost)
Public IPv4 address: 3.93.14.20 | open address
Private IPv4 addresses: 10.1.11.238
IPv6 address: –
Instance state: Running
Public IPv4 DNS: ec2-3-93-14-20.compute-1.amazonaws.com | open address

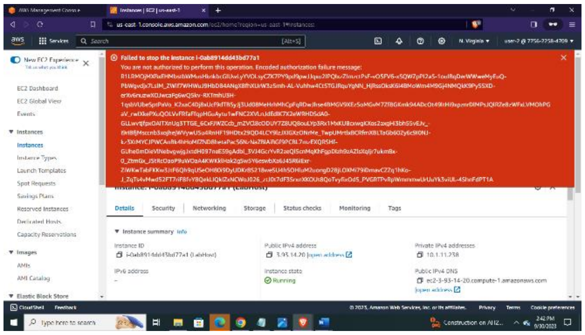
In the **Instance state** menu above, select **Stop instance**. In the **Stop Instance** window, select **Stop**. You will receive an error stating *You are not authorized to perform this operation*. This demonstrates that the policy only allows you to view information, without making changes.



Stop instance?

Instance IDs
i-0ab8914dd43bd77a1 (LabHost)

To confirm that you want to stop the instance, choose the *Stop* button below.



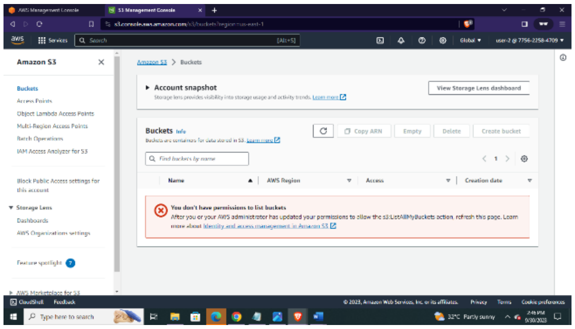
Failed to stop the instance i-0ab8914dd43bd77a1
You are not authorized to perform this operation. Encoded authorization failure message: [illegible]

Instance summary

Instance ID: i-0ab8914dd43bd77a1 (LabHost)
Public IPv4 address: 3.93.14.20 | open address
Private IPv4 addresses: 10.1.11.238
IPv6 address: –
Instance state: Running
Public IPv4 DNS: ec2-3-93-14-20.compute-1.amazonaws.com | open address

In the **Services**, choose **S3**. You will see the message **You don't have permissions to list buckets** because user-2 does not have permission to access Amazon S3.You will now sign-in as **user-3**, who has been hired as your Amazon EC2 administrator.

Sign user-2 out of the **AWS Management Console** by completing the following actions:



s3.console.aws.amazon.com/s3/buckets?region=us-east-1

user-2 @ 7756-2258-4709

Amazon S3 > Buckets

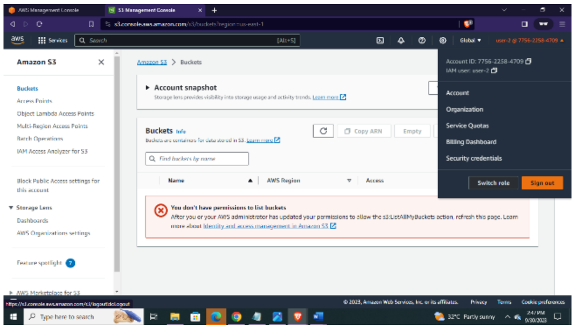
Account snapshot
Storage lens provides visibility into storage usage and activity trends. Learn more

Buckets Info
Buckets are containers for data stored in S3. Learn more

Name	AWS Region	Access	Creation date

You don't have permissions to list buckets
After you or your AWS administrator has updated your permissions to allow the s3:ListAllMyBuckets action, refresh this page. Learn more about Identity and access management in Amazon S3

Buckets
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
AWS Organizations settings
Feature spotlight
View Storage Lens dashboard
Copy ARN
Empty
Delete
Create bucket



Account ID: 7756-2258-4709
IAM user: user-2

You don't have permissions to list buckets
After you or your AWS administrator has updated your permissions to allow the s3:ListAllMyBuckets action, refresh this page. Learn more about Identity and access management in Amazon S3

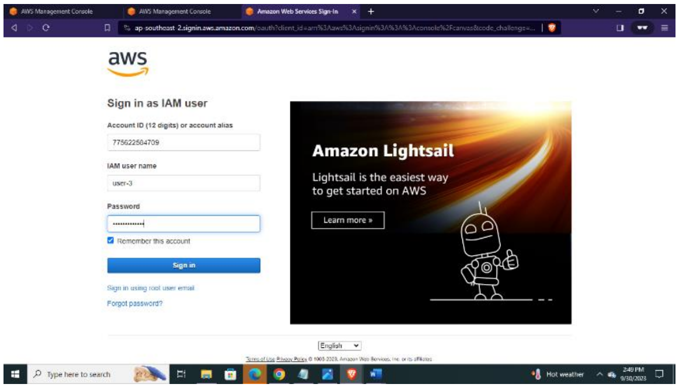
Sign-in with:

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

In the **Services** menu, choose **EC2**. 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* .

If you cannot see an Amazon EC2 instance, then your Region may be incorrect. In the top-right of the screen, pull-down the Region menu and select the region that you noted at the start of the lab (for example, **N. Virginia**).



Sign in as IAM user

Account ID (12 digits) or account alias: 775622504709

IAM user name: user-3

Password: ••••••••••••••

☑ Remember this account

Sign in
Sign in using root user email
Forgot password?
Amazon Lightsail
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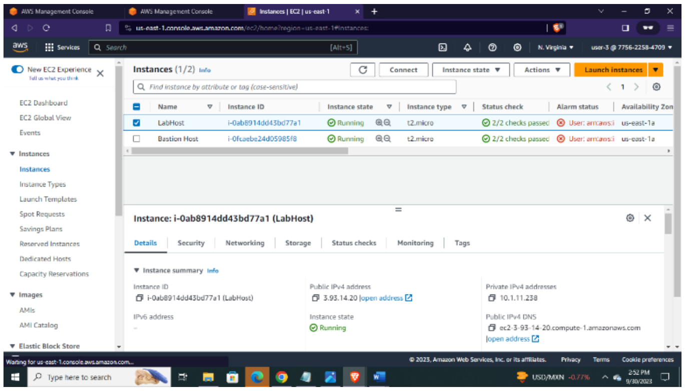
Learn more »



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

N. Virginia · user-3 @ 7756-2258-4709

Instances (1/2)

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zon
☑	LabHost	i-0ab8914dd43bd77a1	Running	t2.micro	2/2 checks passed	User: arn:aws:i	us-east-1a
□	Bastion Host	i-0fcaebe24d05985f8	Running	t2.micro	2/2 checks passed	User: arn:aws:i	us-east-1a

Instance: i-0ab8914dd43bd77a1 (LabHost)

Instance summary

Instance ID: i-0ab8914dd43bd77a1 (LabHost)

Public IPv4 address: 3.93.14.20 | open address

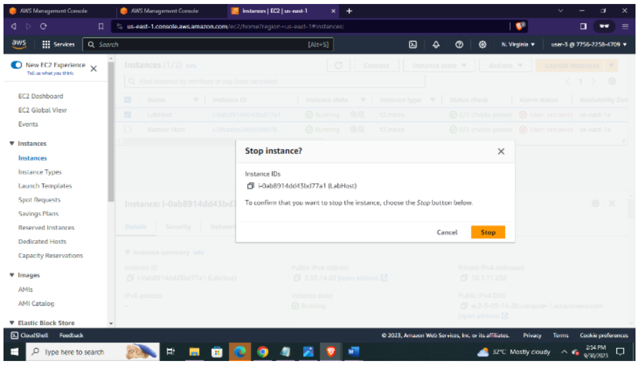
Private IPv4 addresses: 10.1.11.238

IPv6 address: –

Instance state: Running

Public IPv4 DNS: ec2-3-93-14-20.compute-1.amazonaws.com | open address

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.

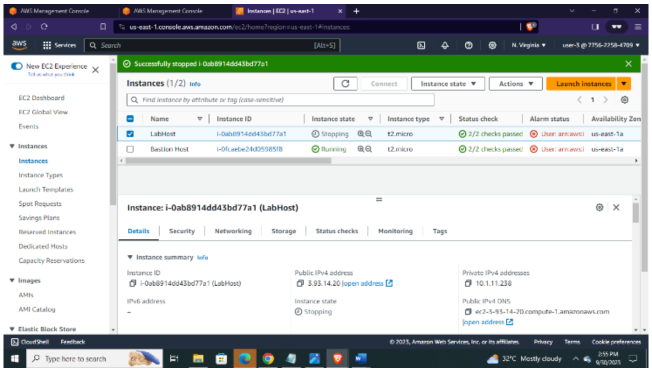


Stop instance?

Instance IDs

i-0ab8914dd43bd77a1 (LabHost)

To confirm that you want to stop the instance, choose the Stop button below.



Successfully stopped i-0ab8914dd43bd77a1

Instances (1/2)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
LabHost	i-0ab8914dd43bd77a1	Stopping	t2.micro	2/2 checks passed	User: arn:aws:	us-east-1a
Bastion Host	i-0fcaebe24d05585f8	Running	t2.micro	2/2 checks passed	User: arn:aws:	us-east-1a

Instance: i-0ab8914dd43bd77a1 (LabHost)

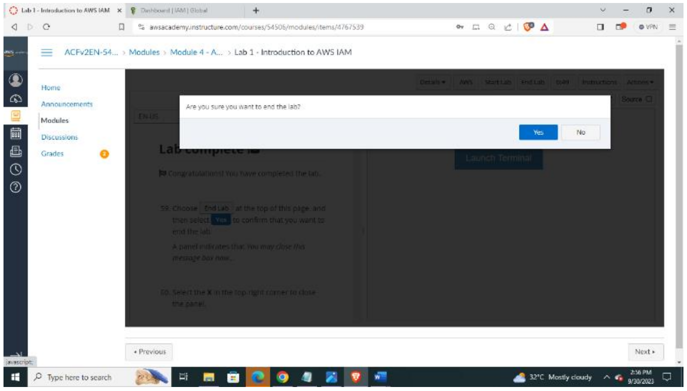
Instance ID: i-0ab8914dd43bd77a1 (LabHost)

Public IPv4 address: 3.93.14.20 | open address

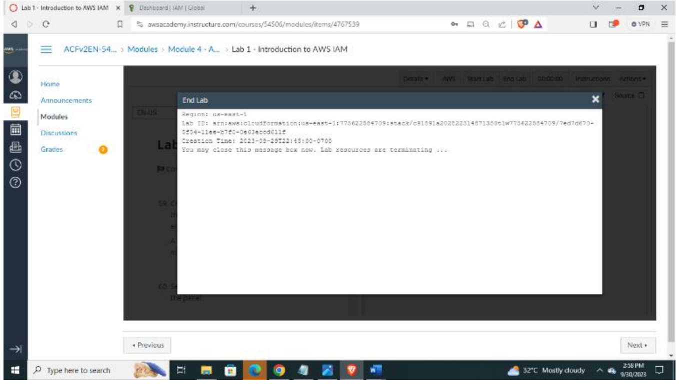
Private IPv4 addresses: 10.1.11.238

Instance state: Stopping

Public IPv4 DNS: ec2-3-93-14-20.compute-1.amazonaws.com | open address



Are you sure you want to end the lab?



End Lab

```
Region: us-east-1
Lab ID: arn:aws:cloudformation:us-east-1:773622564709:stack/c81691a2028223146713 50t1w773622564709/7ed7d670-5f54-11ee-b7f0-0e63ecdd611f
Creation Time: 2023-09-29T22:45:00-0700
You may close this message box now. Lab resources are terminating ...
```