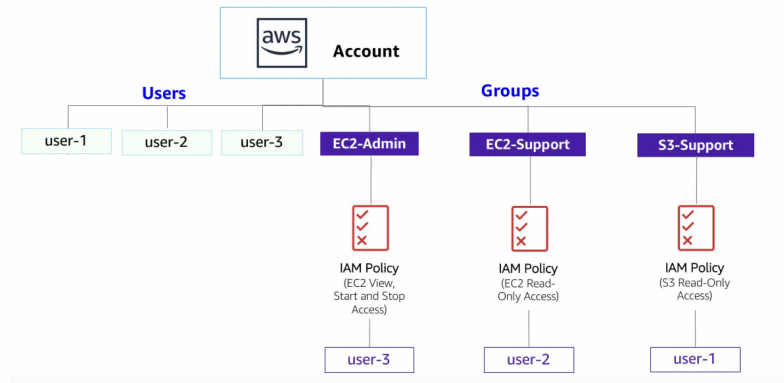


This lab will demonstrate:



- Exploring pre-created **IAM Users and Groups**
- Inspecting **IAM policies** as applied to the pre-created groups
- Following a **real-world scenario**, adding users to groups with specific capabilities enabled
- Locating and using the **IAM sign-in URL**
- **Experimenting** with the effects of policies on service access

AWS Identity and Access Management

AWS Identity and Access Management (IAM) can be used to:

- **Manage IAM Users and their access:** You can create Users and assign them individual security credentials (access keys, passwords, and multi-factor authentication devices). You can manage permissions to control which operations a User can perform.
- **Manage IAM Roles and their permissions:** An IAM Role is similar to a User, in that it is an AWS identity with permission policies that determine what the identity can and cannot do in AWS. However, instead of being uniquely associated with one person, a Role is intended to be *assumable* by anyone who needs it.
- **Manage federated users and their permissions:** You can enable *identity federation* to allow existing users in your enterprise to access the AWS Management Console, to call AWS APIs and to access resources, without the need to create an IAM User for each identity.

Business Scenario

NEHA GOVEKAR NSG220007 - LAB 1

For the remainder of this lab, you will work with these Users and Groups to enable permissions supporting the following business scenario:

Your company is growing its use of Amazon Web Services, and is using many Amazon EC2 instances and a great deal of Amazon S3 storage. You wish to give access to new staff depending upon their job function:

User	In Group	Permissions
user-1	S3-Support	Read-Only access to Amazon S3
user-2	EC2-Support	Read-Only access to Amazon EC2
user-3	EC2-Admin	View, Start and Stop Amazon EC2 instances

Gave permissions:

The screenshot shows the AWS IAM console interface. On the left is a navigation sidebar with sections: Identity and Access Management (IAM), Access management, and Access reports. The main content area is titled 'EC2-Admin' and includes a summary card with details like group name, creation time, and ARN. Below this are tabs for Users, Permissions, and Access Advisor. The 'Users' tab is active, showing a list of users in the group, with 'user-3' listed as the only member.

Identity and Access Management (IAM)

- Dashboard
- Access management**
 - User groups
 - Users
 - Roles
 - Policies
 - Identity providers
 - Account settings
 - Root access management
- Access reports**
 - Access Analyzer
 - External access

EC2-Admin

Summary

- User group name: EC2-Admin
- Creation time: March 14, 2025, 16:51 (UTC-05:00)
- ARN: arn:aws:iam::888393443808:group/spl66/EC2-Admin

Users (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.

<input type="checkbox"/>	User name	Groups	Last activity	Creation time
<input type="checkbox"/>	user-3	1	None	13 minutes ago

NEHA GOVEKAR NSG220007 - LAB 1

IAM

User groups

EC2-Support

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

User groups

Users

Roles

Policies

Identity providers

Account settings

Root access management

Access reports

Access Analyzer

External access

EC2-Support

Info

Delete

Edit

Summary

User group name

EC2-Support

Creation time

March 14, 2025, 16:51 (UTC-05:00)

ARN

arn:aws:iam::888393443808:group/spl66/EC2-Support

Users

Permissions

Access Advisor

Users in this group (1)

Remove

Add users

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

☐

User name

☐

user-2

Groups

1

Last activity

None

Creation time

13 minutes ago

<https://888393443808.signin.aws.amazon.com/console>

User 1:

Amazon S3

General purpose buckets

Directory buckets

Table buckets

Access Grants

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

Storage Lens groups

AWS Organizations settings

Account snapshot - updated every 24 hours

All AWS Regions

View Storage Lens dashboard

General purpose buckets

Directory buckets

General purpose buckets (1)

Info

All AWS Regions

Refresh

Copy ARN

Empty

Delete

Create bucket

Buckets are containers for data stored in S3.

Find buckets by name

☐

samplebucket--6d410630

US East (N. Virginia) us-east-1

View analyzer for us-east-1

March 14, 2025, 16:51:10 (UTC-05:00)

User 2:

EC2

Dashboard

EC2 Global View

Events

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

AMI Catalog

Instances (2)

Info

Last updated less than a minute ago

Connect

Instance state

Actions

Launch instances

Find Instance by attribute or tag (case-sensitive)

All states

☐

Name

☐

LabHost

☐

Bastion Host

Instance ID

i-0777c923260cbfc1b

i-092bda768df6d5e81

Instance state

Running

Running

Instance type

t2.micro

t2.micro

Status check

2/2 checks passed

2/2 checks passed

Alarm status

View alarms

View alarms

Availability Zone

us-east-1a

us-east-1a

Public IP

ec2-

ec2-

Select an instance

User 3:

NEHA GOVEKAR NSG220007 - LAB 1

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:v=3,\$case=tags:true%5C,client:false,\$regex=tags:false%5C,client:fals...

Search [Option+S]

United States (N. Virginia) user-3 @ 8883-9344-3808

EC2 > Instances

EC2

Dashboard

EC2 Global View

Events

▼ Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Successfully initiated stopping of i-0777c923260cbfc1b

Instances (2) Info

Last updated less than a minute ago

Connect

Instance state

Actions

Launch instances

Find Instance by attribute or tag (case-sensitive)

All states

< 1 >

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Put
<input type="checkbox"/>	LabHost	i-0777c923260cbfc1b	Stopped	t2.micro	-	User: arn:aws:	us-east-1a	-
<input type="checkbox"/>	Bastion Host	i-092bda768df6d5e81	Running	t2.micro	2/2 checks passed	User: arn:aws:	us-east-1a	ec2

Select an instance