

Cloud Computing – LAB-4

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1. Exploring pre-created IAM Users and Groups

Viewing pre-created users

IAM > Users

Users (4) Info

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

Q Search

< 1 > ⚙

<input type="checkbox"/>	User name	Path	Group	Last activity	MFA	Password age	Console last sign-in
<input type="checkbox"/>	awsstudent	/	Access denied	Access denied	Access denied	Access denied	-
<input type="checkbox"/>	user-1	/spl66/	0	-	-	8 minutes	-
<input type="checkbox"/>	user-2	/spl66/	0	-	-	8 minutes	-
<input type="checkbox"/>	user-3	/spl66/	0	-	-	8 minutes	-

IAM > Users > user-1

user-1 Info

Delete

Summary

ARN
arn:aws:iam::181260347450:user/spl66/user-1

Created
July 16, 2024, 10:10 (UTC+05:30)

Console access
Enabled without MFA

Last console sign-in
Never

Access key 1
AKIASUM7VNA5K5ZOCC6B - Active
Never used. Created today.

Access key 2
Create access key

Permissions

Groups

Tags (1)

Security credentials

Access Advisor

Permissions policies (0)

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

Q Search

Filter by Type
All types

< 1 > ⚙

<input type="checkbox"/>	Policy name	Type	Attached via
No resources to display			

Inspecting IAM policies as applied to the pre-created groups

a) The pre-defined security groups

IAM > User groups

User groups (3) Info

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

Search

< 1 > ⚙

<input type="checkbox"/>	Group name	Users	Permissions	Creation time
<input type="checkbox"/>	EC2-Admin	0	Defined	25 minutes ago
<input type="checkbox"/>	EC2-Support	0	Defined	25 minutes ago
<input type="checkbox"/>	S3-Support	0	Defined	25 minutes ago

- b) A policy defines what actions are allowed or denied for specific AWS resources. The S3-Support group has the **AmazonS3ReadOnlyAccess** policy attached.

IAM > User groups > S3-Support

S3-Support Info

Delete

Summary

Edit

User group name

Creation time

ARN

S3-Support

July 16, 2024, 10:11 (UTC+05:30)

arn:aws:iam::181260347450:group/spl66/S3-Support

Users

Permissions

Access Advisor

Permissions policies (1) Info

Simulate

Remove

Add permissions

You can attach up to 10 managed policies.

Filter by Type

Search

All types

< 1 > ⚙

<input type="checkbox"/>	Policy name	Type	Attached entities
<input type="checkbox"/>	AmazonS3ReadOnlyAccess	AWS managed	1

2. Following a real-world scenario, adding users to groups with specific capabilities enabled.

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

Real-world scenario

a) Add user1 to the S3 support group

[IAM](#) > [User groups](#) > [S3-Support](#) > Add users

Add users to S3-Support [Info](#)

Other users in this account (1/4)

Search

< 1 > ⚙

<input type="checkbox"/>	User name 🔗	▲	Groups	Last activity ▾	Creation time ▾
<input type="checkbox"/>	awsstudent		0	None	45 minutes ago
<input checked="" type="checkbox"/>	user-1		0	None	46 minutes ago
<input type="checkbox"/>	user-2		0	None	46 minutes ago
<input type="checkbox"/>	user-3		0	None	46 minutes ago

S3-Support [Info](#)

Delete

Summary [Edit](#)

User group name

S3-Support

Creation time

July 16, 2024, 10:11 (UTC+05:30)

ARN

[arn:aws:iam::181260347450:group/spl66/S3-Support](#)

[Users \(1\)](#) | [Permissions](#) | [Access Advisor](#)

Users in this group (1)

Search

< 1 > ⚙

<input type="checkbox"/>	User name 🔗	▲	Groups	Last activity ▾	Creation time ▾
<input type="checkbox"/>	user-1		1	None	46 minutes ago

b) Add user 2 to the EC2 support group

[IAM](#) > [User groups](#) > EC2-Support

EC2-Support [Info](#)

[Delete](#)

Summary

[Edit](#)

User group name EC2-Support	Creation time July 16, 2024, 10:11 (UTC+05:30)	ARN arn:aws:iam::181260347450:group/spl66/EC2-Support
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[Users \(1\)](#) | [Permissions](#) | [Access Advisor](#)

Users in this group (1)

[Refresh](#) [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.

< 1 > [Settings](#)

<input type="checkbox"/>	User name	Groups	Last activity	Creation time
<input type="checkbox"/>	user-2	1	None	49 minutes ago

c) Add user 3 to the EC2 admin group

[IAM](#) > [User groups](#) > EC2-Admin

EC2-Admin [Info](#)

[Delete](#)

Summary

[Edit](#)

User group name EC2-Admin	Creation time July 16, 2024, 10:11 (UTC+05:30)	ARN arn:aws:iam::181260347450:group/spl66/EC2-Admin
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[Users \(1\)](#) | [Permissions](#) | [Access Advisor](#)

Users in this group (1)

[Refresh](#) [Remove](#) [Add users](#)

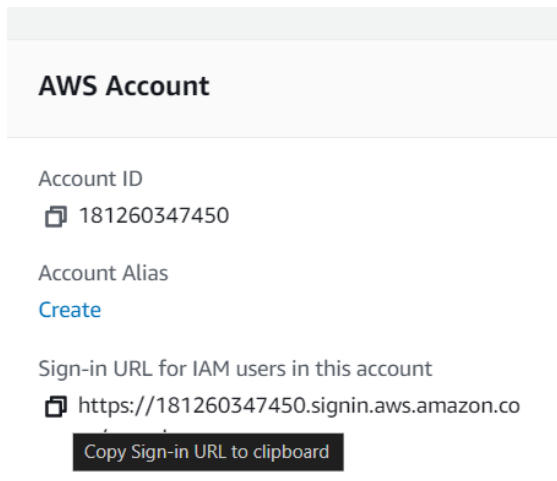
An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS.

< 1 > [Settings](#)

<input type="checkbox"/>	User name	Groups	Last activity	Creation time
<input type="checkbox"/>	user-3	1	None	57 minutes ago

4. Locating and using the **IAM sign-in URL**

- a) Copy Sign-in URL from the dashboard



- b) Opening the link in an incognito window and logging in as **user-1**



Sign in as IAM user

Account ID (12 digits) or account alias

181260347450

IAM user name

user-1

Password

.....

☐ Remember this account

Sign in

[Sign in using root user email](#)

[Forgot password?](#)

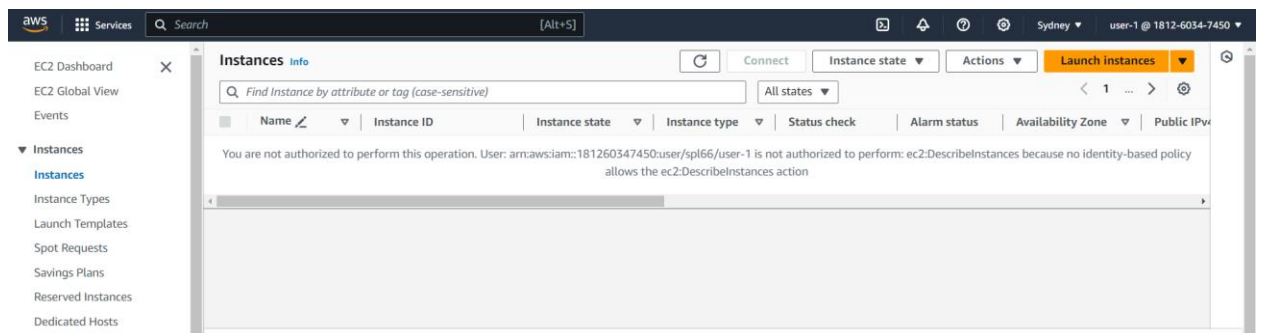
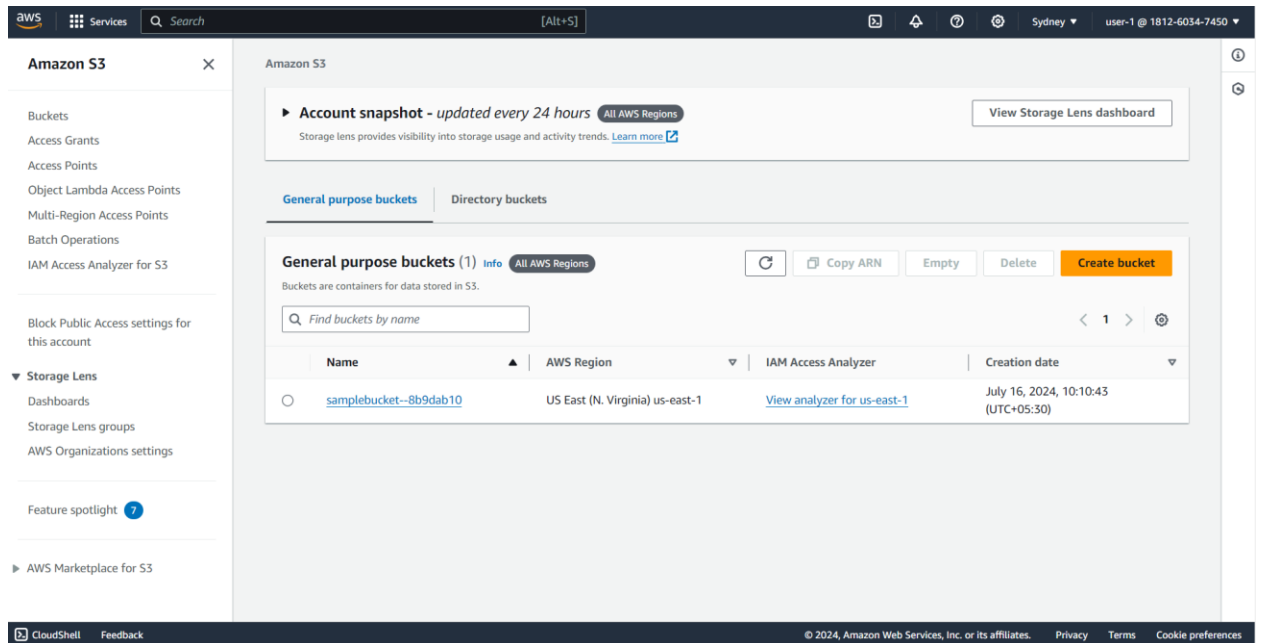
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5. Experimenting with the effects of policies on service access

- a) **User-1** has been hired to the S3 support group and hence has access to the S3 buckets but **can't access the EC2 instances** as **user-2** has been hired as EC2 support.



- b) Logging in as **user-2** gives us access to the instance as the user has been hired as the EC2 support group

