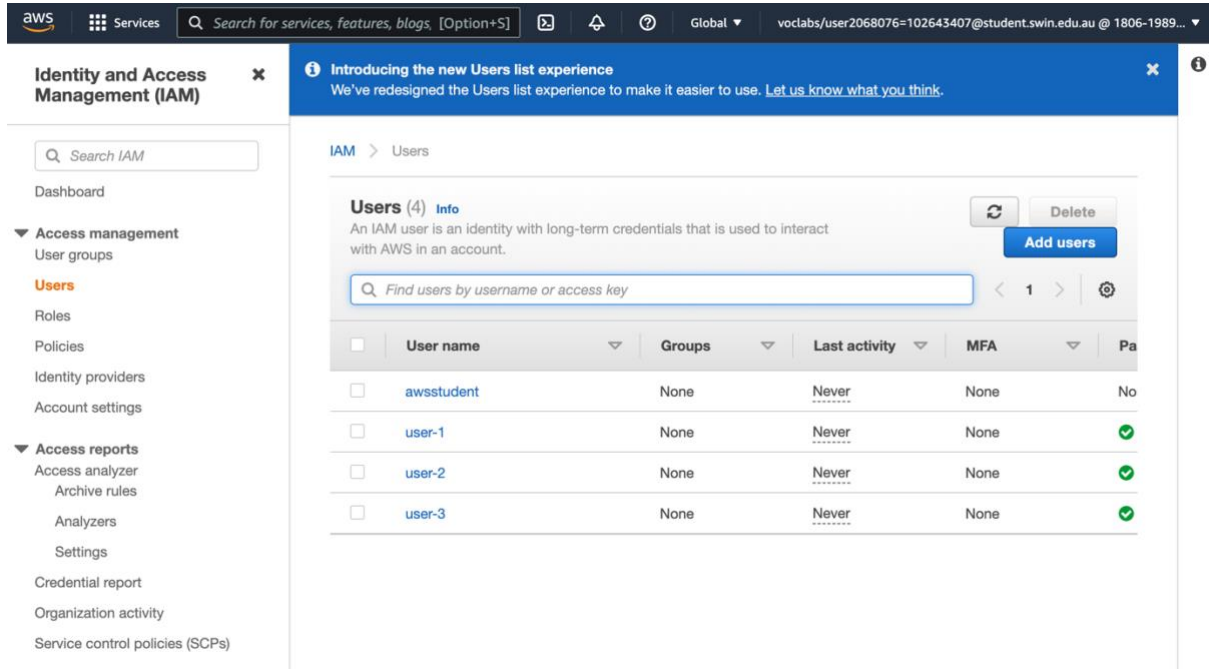


# INTRODUCTION TO AWS IAM

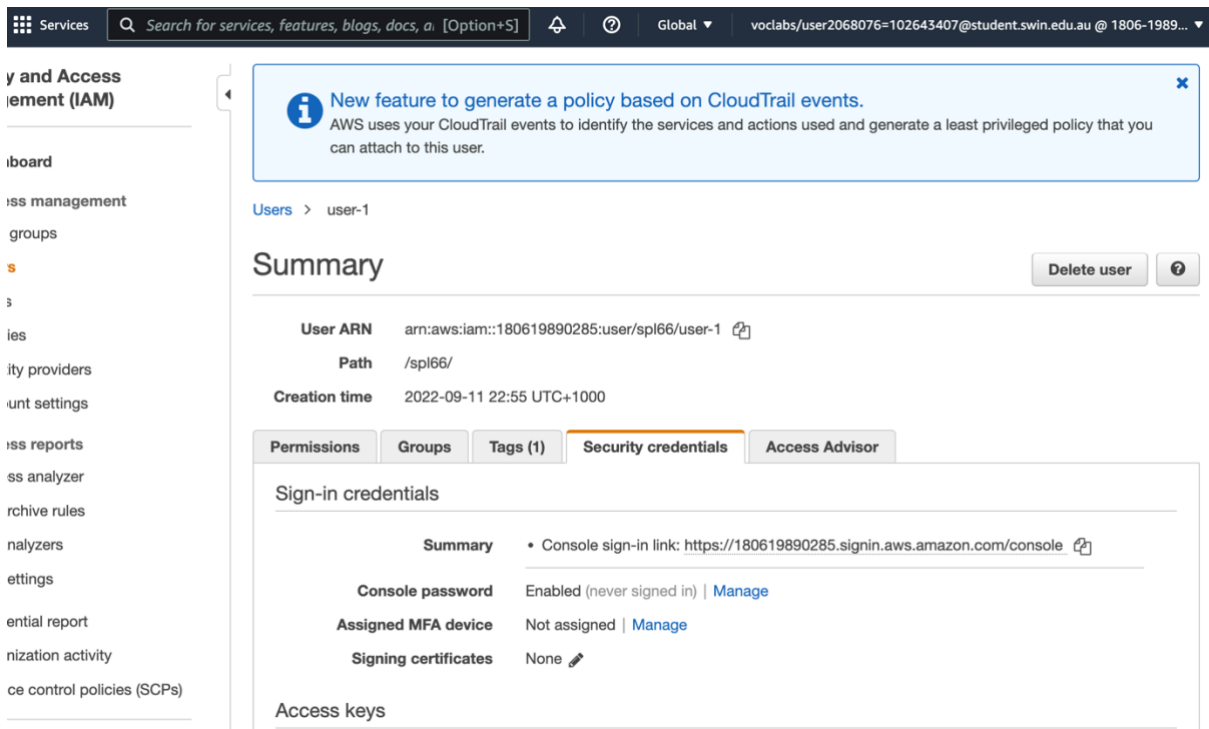
Pham Huu Hung – 102643407



The screenshot shows the AWS IAM console interface. On the left is a navigation menu with options like Dashboard, Access management (User groups, Users, Roles, Policies, Identity providers, Account settings), Access reports (Access analyzer, Archive rules, Analyzers, Settings, Credential report, Organization activity, Service control policies (SCPs)), and Service control policies (SCPs). The main content area is titled 'Users (4)' and includes a search bar 'Find users by username or access key'. Below the search bar is a table listing four users: awsstudent, user-1, user-2, and user-3. The table columns are User name, Groups, Last activity, MFA, and Password status. user-1, user-2, and user-3 have a green checkmark in the Password status column, indicating they have passwords. There is also a blue notification banner at the top right about the new Users list experience.

User name	Groups	Last activity	MFA	Password status
awsstudent	None	Never	None	No
user-1	None	Never	None	✓
user-2	None	Never	None	✓
user-3	None	Never	None	✓

Accessing AWS management console and select IAM from menu.



The screenshot shows the AWS IAM console interface for a specific user, 'user-1'. The left navigation menu is the same as in the previous screenshot. The main content area is titled 'Summary' and includes a 'Delete user' button. Below the summary is a section for 'Sign-in credentials' which shows the following information:

- User ARN:** arn:aws:iam::180619890285:user/spl66/user-1
- Path:** /spl66/
- Creation time:** 2022-09-11 22:55 UTC+1000
- Security credentials:** Console sign-in link: <https://180619890285.signin.aws.amazon.com/console>
- Console password:** Enabled (never signed in) | [Manage](#)
- Assigned MFA device:** Not assigned | [Manage](#)
- Signing certificates:** None

There is also a blue notification banner at the top right about a new feature to generate a policy based on CloudTrail events.

This shows user-1 is assigned to a console password

Search for services, features, blogs, docs, a: [Option+S] Global ▼ voclabs/user2068076=102643407@student.swin.edu.au @ 1806-1989...

EC2-Support

Summary

User group name EC2-Support	Creation time September 11, 2022, 22:56 (UTC+10:00)	ARN arn:aws:iam::180619890285:group/ spl66/EC2-Support
--------------------------------	---	--

Users Permissions Access Advisor

Permissions policies (1) Info

You can attach up to 10 managed policies.

Filter policies by property or policy name and press enter

Policy name	Type	Description
AmazonEC2ReadOnlyAccess	AWS managed	Provides read only acc

Choosing the permission tab from EC2-support group

aws Services Search for services, features, blogs, docs, a: [Option+S] Global ▼ voclabs/user2068076=102643407@student.swin.edu.au @ 1806-1989...

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
- Credential report
- Organization activity
- Service control policies (SCPs)

Filter policies by property or policy name and press enter

Policy name	Type	Description
AmazonEC2ReadOnlyAccess	AWS managed	Provides read only acc

AmazonEC2ReadOnlyAccess

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

```
4 - {
5   "Effect": "Allow",
6   "Action": "ec2:Describe*",
7   "Resource": "*"
8 },
9 - {
10  "Effect": "Allow",
11  "Action": "elasticloadbalancing:Describe*",
12  "Resource": "*"
13 },
14 - {
15  "Effect": "Allow",
16  "Action": [
17    "cloudwatch:ListMetrics",
18    "cloudwatch:GetMetricStatistics",
19    "cloudwatch:Describe*"
20  ],
21  "Resource": "*"
22 },
23 - {
24  "Effect": "Allow",
25  "Action": "autoscaling:Describe*",
```

Checking the policy of the user group EC2 support

Permissions policies (1) Info

You can attach up to 10 managed policies.

Simulate Remove Add permissions

Filter policies by property or policy name and press enter

<input type="checkbox"/>	Policy name	Type	Description
<input type="checkbox"/>	AmazonS3ReadOnlyAccess	AWS managed	Provides read only acce

### AmazonS3ReadOnlyAccess

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

Copy

```
1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Effect": "Allow",
6       "Action": [
7         "s3:Get*",
8         "s3:List*",
9         "s3-object-lambda:Get*",
10        "s3-object-lambda:List*"
11      ],
12      "Resource": "*"
13    }
14  ]
15 }
```

Checking permission to Get and List resources in Amazon S3

Permissions policies (1) Info

You can attach up to 10 managed policies.

Simulate Remove Add permissions

Filter policies by property or policy name and press enter

<input type="checkbox"/>	Policy name	Type	Description
<input type="checkbox"/>	EC2-Admin-Policy	Customer inline	

### EC2-Admin-Policy

Copy Edit

```
1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Action": [
6         "ec2:Describe*",
7         "ec2:StartInstances",
8         "ec2:StopInstances"
9       ],
10      "Resource": [
11        "*"
12      ],
13      "Effect": "Allow"
14    }
15  ]
16 }
```

Checking policy of EC2-Admin

services, features, blogs, docs, a. [Option+S] 🔔 ⓘ Global ▼ voclabs/user2068076=102643407@student.swin.edu.au @ 1806-1989...

IAM > User groups > S3-Support

# S3-Support

Delete

**Summary**

Edit

User group name	Creation time	ARN
S3-Support	September 11, 2022, 22:56 (UTC+10:00)	<a href="#">arn:aws:iam::180619890285:group/spl66/S3-Support</a>

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.

🔄 Remove users

Add users

< 1 > ⚙️

<input type="checkbox"/>	User name <a href="#">↗</a>	Groups	Last activity	Creation t
<input type="checkbox"/>	<a href="#">user-1</a>	1	None	1 hour ago

Add user 1 to S3 user group

services, features, blogs, docs, a. [Option+S] 🔔 ⓘ Global ▼ voclabs/user2068076=102643407@student.swin.edu.au @ 1806-1989...

IAM > User groups > EC2-Support

# EC2-Support

Delete

**Summary**

Edit

User group name	Creation time	ARN
EC2-Support	September 11, 2022, 22:56 (UTC+10:00)	<a href="#">arn:aws:iam::180619890285:group/spl66/EC2-Support</a>

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.

🔄 Remove users

Add users

< 1 > ⚙️

<input type="checkbox"/>	User name <a href="#">↗</a>	Groups	Last activity	Creation t
<input type="checkbox"/>	<a href="#">user-2</a>	1	None	1 hour ago

Add user 2 to EC2-Support

services, features, blogs, docs, and more [Option+S] Global voclabs/user2068076=102643407@student.swin.edu.au @ 1806-

✓ Users added to this group.

IAM > User groups > EC2-Admin

## EC2-Admin

Delete

### Summary

Edit

User group name	Creation time	ARN
EC2-Admin	September 11, 2022, 22:56 (UTC+10:00)	arn:aws:iam::180619890285:group/spl66/EC2-Admin

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.

Remove users Add users

Search

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

Add user 3 to EC2-Admin

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

Services Search for services, features, blogs, docs, and more [Option+S] N. California user-1 @ 1806-1989-0285

## Console Home

Reset to default layout + Add widgets

Introducing the new widget Recent AWS blog posts. Find it at the bottom of your Console Home.

### Recently visited

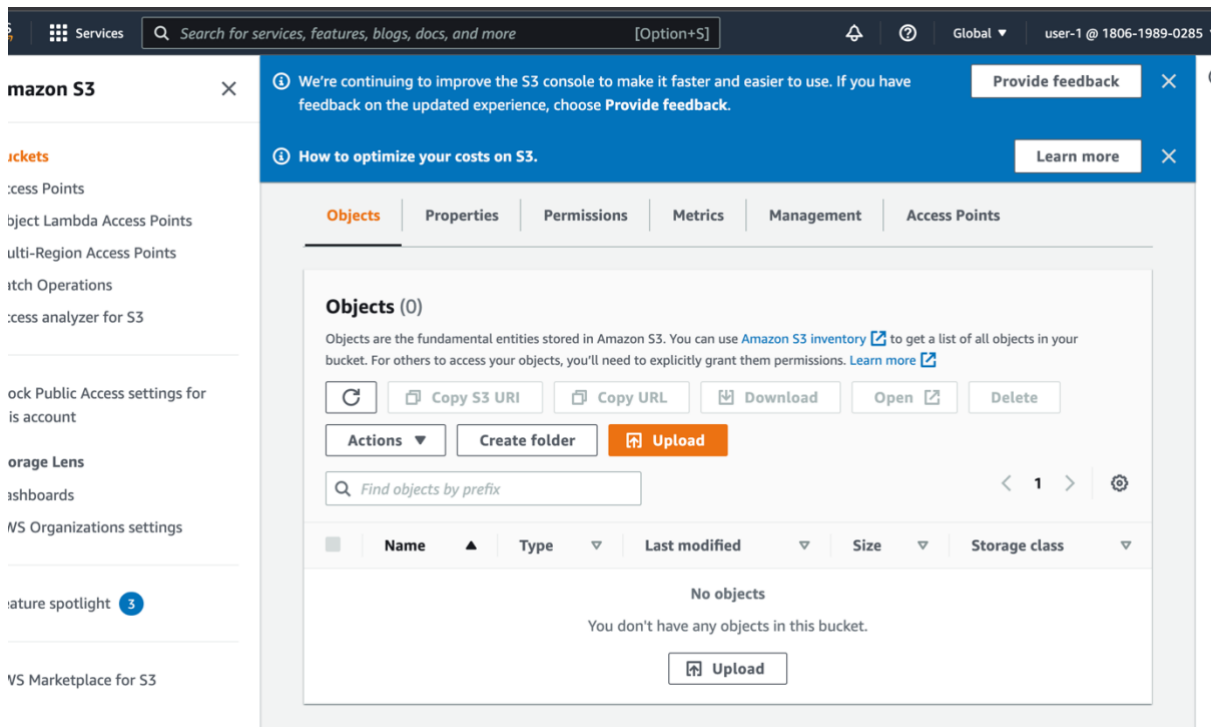
No recently visited services

Explore one of these commonly visited AWS services.

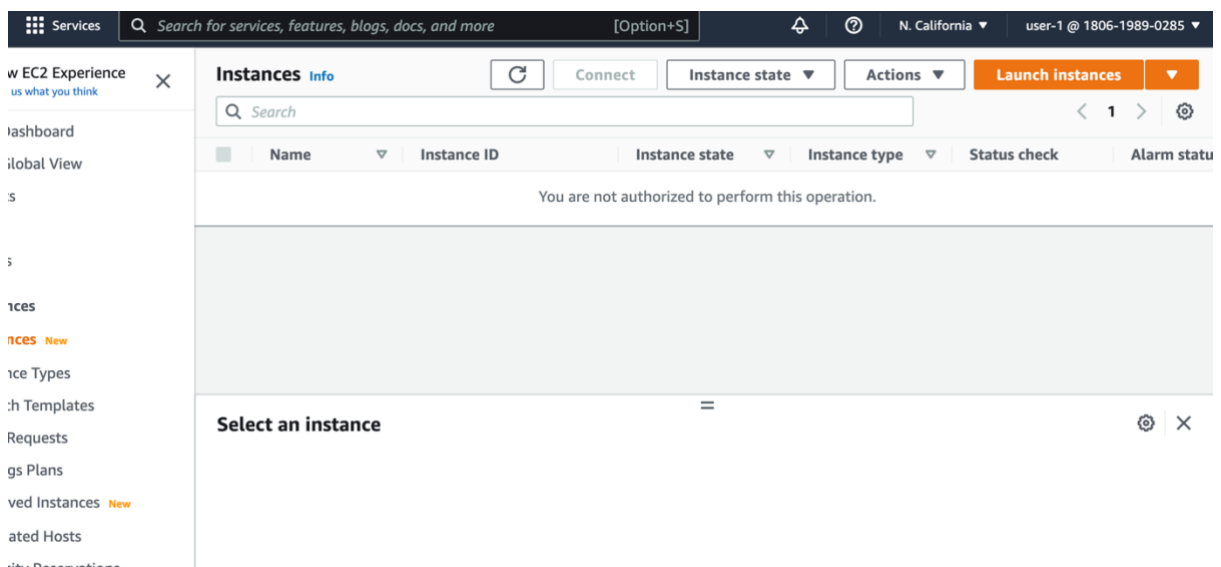
IAM EC2 S3 RDS Lambda

View all services

Sign in with user 1 using incognito mode



Check the permission to view list of S3 bucket



User 1 does not have access to amazon EC2, we need to sign in user 2.

ch for services, features, blogs, docs, and more [Option+S] N. Virginia user-2 @ 1806-1989-0285

**Failed to stop the instance i-09cb89a02e90adb7c**

You are not authorized to perform this operation. Encoded authorization failure message:

mws9gXtbJHou20Eah9Mmn8\_2pSnwpzPGDTyWg1dscLpABCyCxGRk3x0xSpcPxiFEF1cjm2AbAxx17ABc5e5V0yMU0fOj6B-kmg9KGWgh4C3OOzegJr0eu\_HoSGA4ptaaKHA08wQ-Igdv4Qw5RAXfkWd8IBXO362XsAyJH7UJjvvIMEnGppPR9KNzHvhKNxDB-XMntzM9ICJAwb6ro69KrwD8-dcEiwdp\_nrYpACXwEjxz6fyTHopIPo-elUhBdOPneNltVvvyMFIowOP-pd7VPK3foOnpXBZmdyCcRweXifOJ\_mWofl909S3al4nhjmFQECICXsCbOXvJG84rkQLphJOJ8pxToEoL0AAEydU5xY8MXG-ZLKY0TlpF1ErLiwRw9Lcfo\_odZYVIKd9-kMX\_etVyUYVQOM-UehVVqJ5pVBySis8xcJwOSTFJFdi9diiYU0\_HtDSUA-bcWC2O6X2\_67lv1yKrmRCgS0J77dYZqTfvr6o5l\_W\_HSPvujTeUAAtC2jOZkKhineWV8LXK9Kt\_5XtM3HtYG5XeeKieW6rgRu8N6\_A4gosEe6q3gWZGgpzI9CdT\_2iOqkbz8DeopcdECNSFuQnPIVpSO4KNzRcf8XnZSmZwbulFslKxgUblR9wo15w5u0B6SV94j9s3Lda1alXkQFJ35WvRT4dBz7MeyRuRjdGwAYnzSqR5JPHMNPf2MwRXW2Q7bS8QlchEKCzX25q-Yd1gdcN4v1adzD\_sKML22tKseg-7gjQ7sxmjNU4QeayvmJudC83ocs0K1al\_IVXUEEsfYf0C0p5h4SnmQNVIOo1YHWcW4zWkNMy\_Qd9sU2tJ2ZTZJ\_eQCtWW4RzHt5-Nb853OgzzFa9-06N5QP0klum0hOXFbiOqx\_Uey8EkMRCI2EEz7ZyvtGXA7saLUVUWzH6bCnFHyd9fJ9vMm4INPpKn6YOrHnLENQHglgrXpAvqbv7lvnq8FgfwGG1tng97SIH1vFUR1YiPmfzd7Wzw

EC2 > Instances > i-09cb89a02e90adb7c

**Instance summary for i-09cb89a02e90adb7c (LabHost)**

Checking if user 2 is assigned the authority to read only, not making any changes.

services, features, blogs, [Option+S] Global voclabs/user2068076=102643407@student.swin.edu.au @ 1806-1989...

**How to optimize your costs on S3.** Learn more

**samplebucket--09d037c0**

Objects Properties Permissions Metrics Management Access Points

**Objects**

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](#)

Copy S3 URI

Copy URL

Download

Open

Delete

Actions

Create folder

Upload

Find objects by prefix

Show versions

Name	Type	Last modified	Size	Storage class
------	------	---------------	------	---------------

**Insufficient permissions to list objects**

After you or your AWS administrator have updated your permissions to allow the s3:ListBucket action, refresh the page. [Learn more about Identity and access management in Amazon S3](#)

User 2 does not have authority to S3 bucket

Search for services, features, blogs, docs, and more

[Option+S]

N. Virginia

user-3 @ 1806-1989-0285

Successfully stopped i-09cb89a02e90adb7c

Instances (1/2) Info

Connect

Instance state

Actions

Launch instances

Find instance by attribute or tag (case-sensitive)

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status
<input type="checkbox"/>	Bastion Host	i-05342d96e2f794532	Running	t2.micro	2/2 checks passed	User: arn:
<input checked="" type="checkbox"/>	LabHost	i-09cb89a02e90adb7c	Stopping	t2.micro	2/2 checks passed	User: arn:

Stop instance with user 3

Lab completed