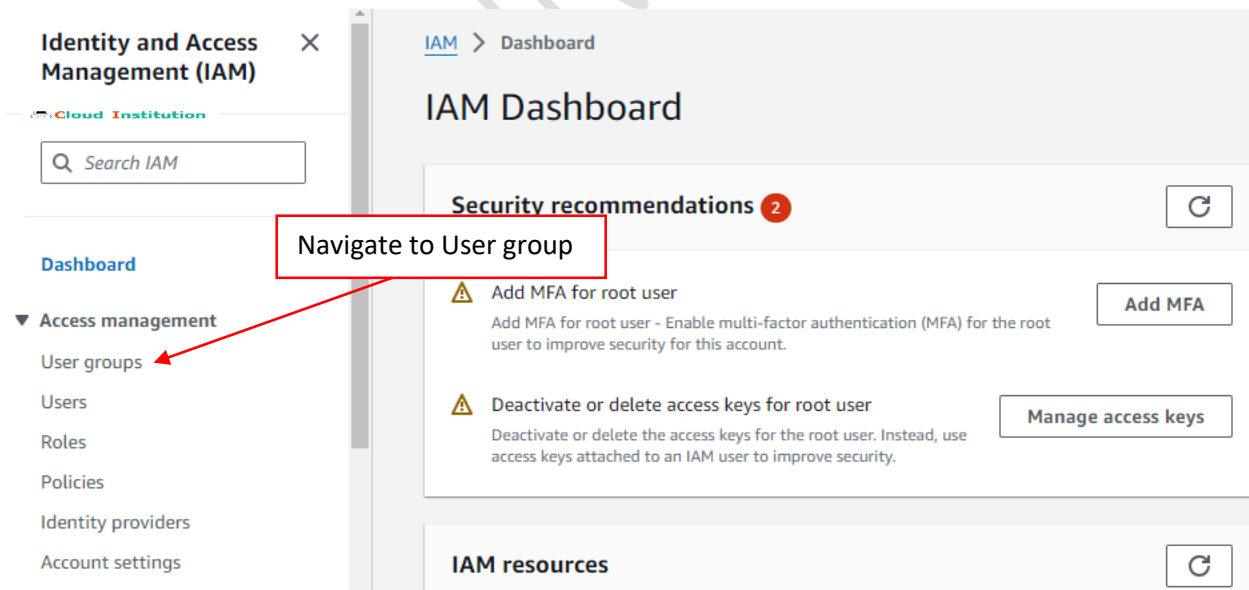
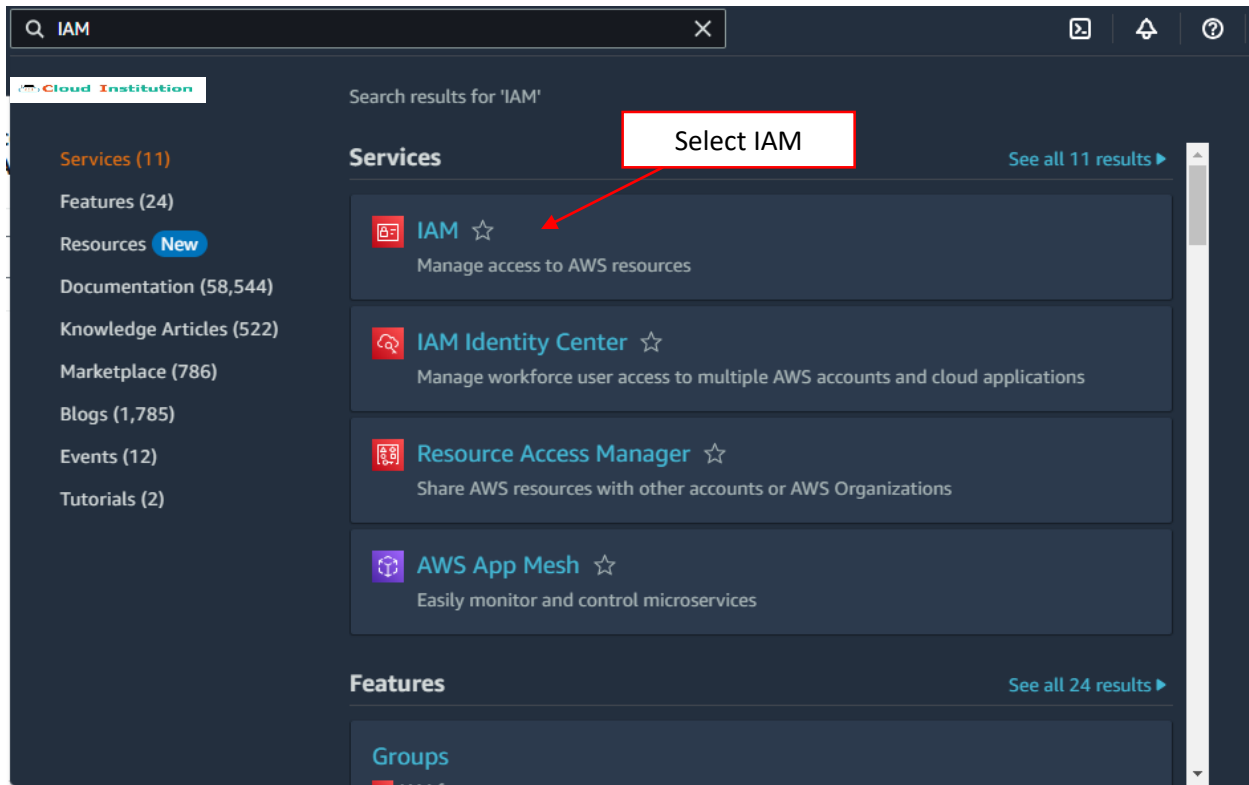


## Creating a user group



**Identity and Access Management (IAM)**

Dashboard

## ▼ Access management

**User groups**

Users

Roles

IAM &gt; User groups &gt; Create user group











## Create user group

**Name the group****User group name**

Enter a meaningful name to identify this group.

Maximum 128 characters. Use alphanumeric and '+=, @, \_' characters.

Mention a group name

<input type="checkbox"/>			AmazonAppStrea...	AWS managed	None	Amazon AppStream 2.0 access to AWS
<input type="checkbox"/>			AmazonAppStrea...	AWS managed	None	Provides read only access to Amazon A
<input type="checkbox"/>			AmazonAppStrea...	AWS managed	None	Default policy for Amazon AppStream
<input type="checkbox"/>			AmazonAthenaFull...	AWS managed	None	Provide full access to Amazon Athena
<input type="checkbox"/>			AmazonAugmente...	AWS managed	None	ess to perform all operati.

Click create

Cancel

**Create user group****Identity and Access Management (IAM)**

Dashboard

## ▼ Access management

**User groups**

Users

Roles

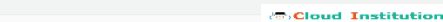
Policies

Identity providers

Cloudinstitution-group user group created.

[View group](#)

IAM &gt; User groups

**User groups (1)** Info

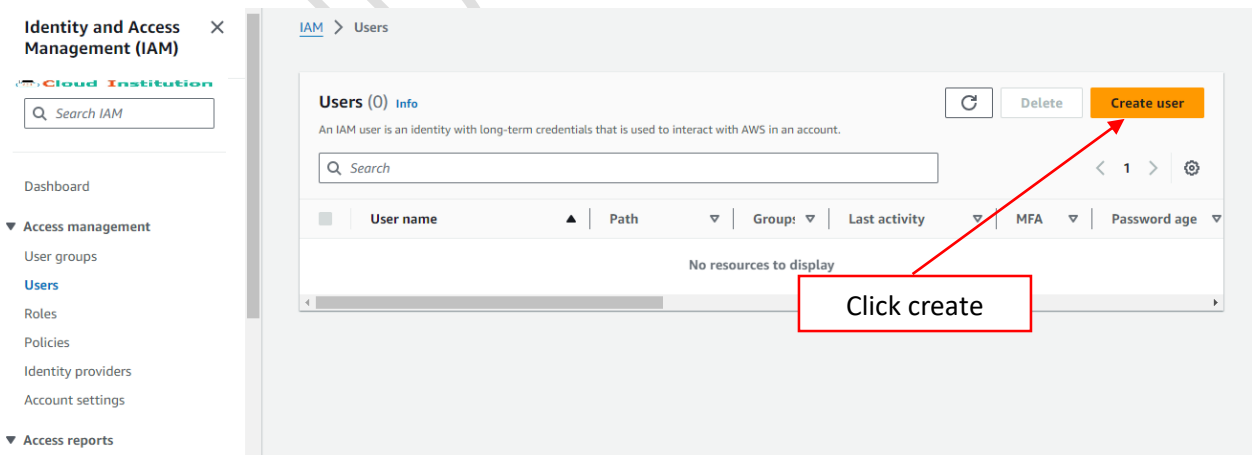
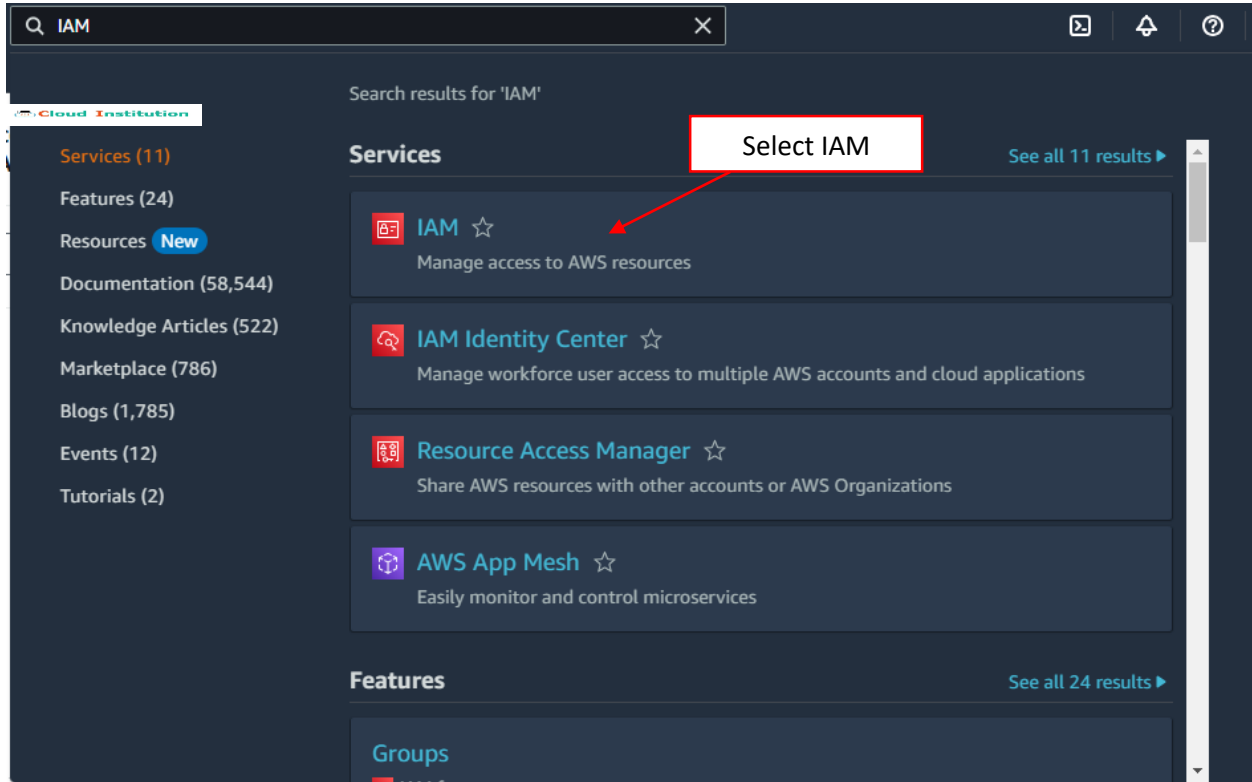
A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.

Group created

<input type="checkbox"/>	Group name	Users	Permissions	Creation time
<input type="checkbox"/>	<a href="#">Cloudinstitution-group</a>	0	Not defined	Now

## Creating an IAM User

Step 1 : Create an IAM user



## Specify user details

User details

Cloud Institution

User name

cloudinstitution

The user name can have up to 64 characters. Valid characters: A-Z, a-z, 0-9, and + = , . @ \_ - (hyphen)

☒ Provide user access to the AWS Management Console - optional

If you're providing console access to a person, it's a best practice [to manage their access in IAM Identity Center](#).

Are you providing console access to a person?

User type

☐ Specify a user in Identity Center - Recommended

We recommend that you use Identity Center to provide console access to a person. With Identity Center, you can centrally manage user access to their AWS accounts and cloud applications.

☒ I want to create an IAM user

We recommend that you create IAM users only if you need to enable programmatic access through access keys, service-specific credentials for AWS CodeCommit or Amazon Keyspaces, or a backup credential for emergency account access.

Console password

Console password

☐ Autogenerated password

You can view the password after you create the user.

☒ Custom password

Enter a custom password for the user.

.....

☐ Show password

☐ Users must create a new password at next sign-in - Recommended

Users automatically get the `IAMUserChangePassword` policy to allow them to change their own password.

If you are creating programmatic access through access keys or service-specific credentials for AWS CodeCommit or Amazon Keyspaces, you can generate them after you create this IAM user. [Learn more](#)

Cancel

Next

Step 2

**Set permissions**

Step 3

Review and create

Step 4

Retrieve password

### Permissions options

☒ **Add user to group**  
Add user to an existing group, or create a new group. We recommend using groups to manage user permissions by job function.

☐ **Copy permissions**  
Copy all group memberships, attached managed policies, and inline policies from an existing user.

☐ **Attach policies directly**  
Attach a managed policy directly to a user. As a best practice, we recommend attaching policies to a group instead. Then, add the user to the appropriate group.

### User groups (1)

☐

**Group name**

☐

**Users**

☐

**Attached policies**

☐

**Created**

<input type="checkbox"/>	<a href="#">Cloudinstitution-group</a>	0	-	2024-05-08 (6 minutes ago)
--------------------------	--	---	---	----------------------------

**Set permissions boundary - optional**

Cancel

Previous

Next

Click next

Step 3

**Review and create**

Step 4

Retrieve password

User name

cloudinstitution

Console password type

Custom password

Require password reset

No

### Permissions summary

☐

**Name**

☐

**Type**

☐

**Used as**

No resources				
--------------	--	--	--	--

### Tags - optional

Tags are key-value pairs you can add to AWS resources to help identify, organize, or search for resources. Choose any tags you want to associate with this user.

No tags associated with the resource.

Add new tag

You can add up to 50 more tags.

Cancel

Previous

Create user

Click create

✔ **User created successfully**

You can view and download the user's password and email instructions for signing in to the AWS Management Console.

View user

✕

Step 1

[Specify user details](#)

Step 2

[Set permissions](#)

Step 3

[Review and create](#)

Step 4

**Retrieve password**

## Retrieve password

You can view and download the user's password below or email users instructions for signing in to the AWS Management Console. This is the only time you can view and download this password.

### Console sign-in details

Email sign-in instructions

**User created**

Console sign-in URL

User name


Console password

[Show](#)

Cancel

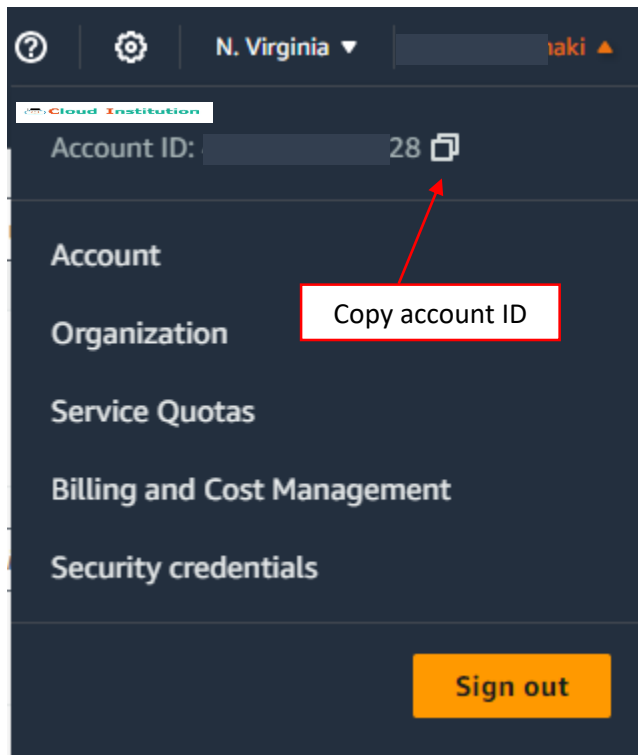
Download .csv file

Return to users list

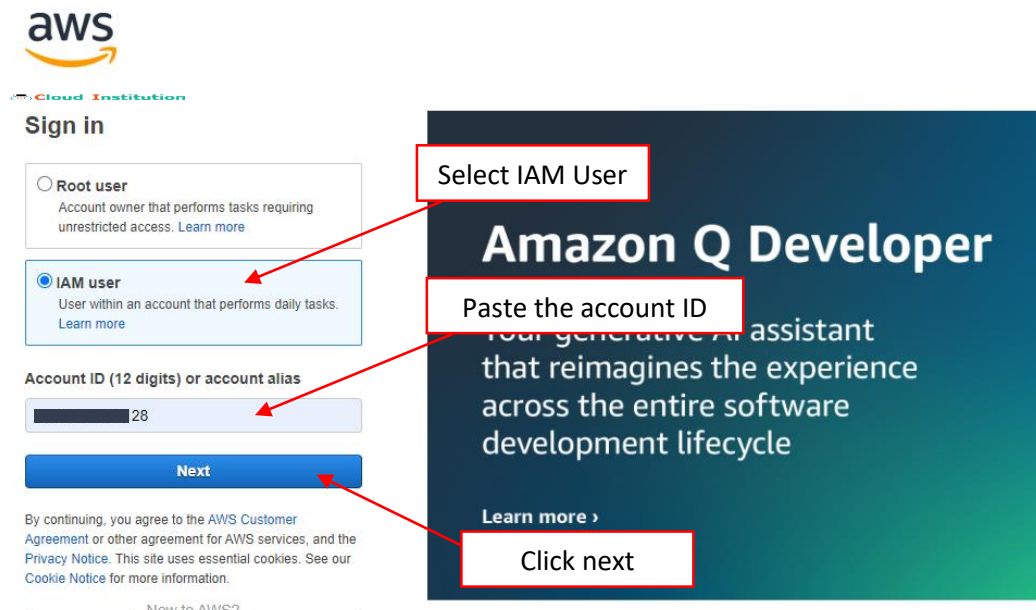
 **Cloud Institution**

No 15,20<sup>th</sup> Main , 100 ft ring Road, BTM Layout 2<sup>nd</sup> stage , Bangalore – 560076 <https://cloudinstitution.com/>

Step 2 : Login to the created IAM User



Open a new tab and go to sign in console





Cloud Institution

### Sign in as IAM user

Account ID (12 digits) or account alias

28

IAM user name

cloudinstitution

Password

.....

☐ Remember this account

**Sign in**

[Sign in using root user email](#)

[Forgot password?](#)

Enter the user name you have created

Enter the password

Click sign in

Amazon Lightsail  
to get started on AWS



Services Search [Alt+S] N. Virginia cloudinstitution@ 28

Console Home Info

Reset to default layout Add widgets

Recently visited Info

- EC2
- AWS Auto Scaling
- Route 53
- Billing and Cost Management
- S3 Glacier
- CloudWatch
- Simple Queue Service
- ElastiCache
- Simple Notification Service
- IAM

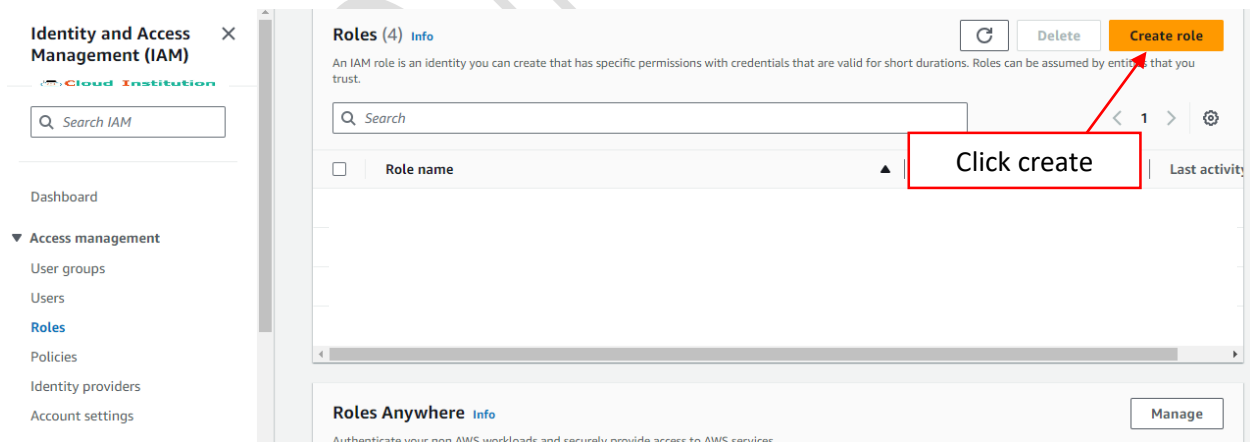
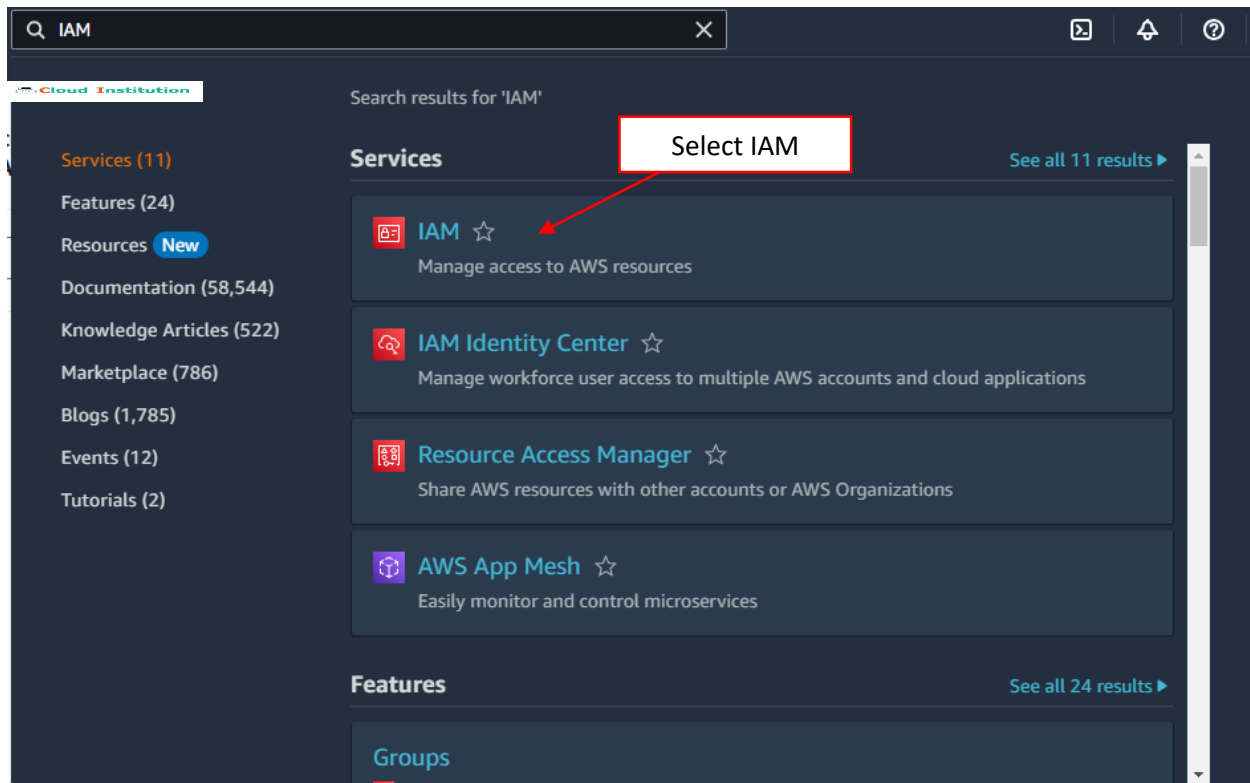
Successfully logged in to the IAM user

Create application

us-east-1 (Current Region) Find applications

Name	Description	Region	Originating a...

## Creating an IAM Role





Step 1

Select trusted entity

Select trusted entity [Info](#)

Step 2

Add permissions

Step 3

Name, review, and create

## Trusted entity type

Click AWS service

- ☒ **AWS service**  
Allow AWS services like EC2, Lambda, or others to perform actions in this account.

- ☐ **AWS account**  
Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.

- ☐ **Web identity**  
Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.

- ☐ **SAML 2.0 federation**  
Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.

- ☐ **Custom trust policy**  
Create a custom trust policy to enable others to perform actions in this account.

Service or use case

EC2

Choose a use case for the specified service.

Use case


Select EC2

- ☒ **EC2**  
Allows EC2 instances to call AWS services on your behalf.
- ☐ **EC2 Role for AWS Systems Manager**  
Allows EC2 instances to call AWS services like CloudWatch and Systems Manager on your behalf.
- ☐ **EC2 Spot Fleet Role**  
Allows EC2 Spot Fleet to request and terminate Spot Instances on your behalf.
- ☐ **EC2 - Spot Fleet Auto Scaling**  
Allows Auto Scaling to access and update EC2 spot fleets on your behalf.
- ☐ **EC2 - Spot Fleet Tagging**  
Allows EC2 to launch spot instances and attach tags to the launched instances on your behalf.
- ☐ **EC2 - Spot Instances**  
Allows EC2 Spot Instances to launch and manage spot instances on your behalf.
- ☐ **EC2 - Spot Fleet**  
Allows EC2 Spot Fleet to launch and manage spot fleet instances on your behalf.
- ☐ **EC2 - Scheduled Instances**  
Allows EC2 Scheduled Instances to manage instances on your behalf.

Click next

Cancel **Next**

IAM &gt; Roles &gt; Create role

Step 1   
[Select trusted entity](#)Step 2  
**Add permissions**Step 3  
Name, review, and create

## Add permissions Info

### Permissions policies (1/924) Info

Choose one or more policies to attach to your new role.




**Select ec2 full access**

Q ec2fullaccess

Filter by type

All types

1 match

<input checked="" type="checkbox"/>	Policy name 	Type	Description
<input checked="" type="checkbox"/>	  AmazonEC2FullAccess	AWS managed	Provides full access to

**► Set permissions boundary - optional****Click next**

Cancel

Previous

Next

IAM &gt; Roles &gt; Create role

Step 1   
[Select trusted entity](#)Step 2  
[Add permissions](#)Step 3  
**Name, review, and create**

## Name, review, and create

### Role details

**Give a name to the Role**

#### Role name

Enter a meaningful name to identify this role.

Role-cloud-institute

Maximum 64 characters. Use alphanumeric and '+', '@', '-' characters.

#### Description

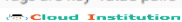
Add a short explanation for this role.

Allows Lambda functions to call AWS services on your behalf.

Maximum 1000 characters. Use letters (A-Z and a-z), numbers (0-9), tabs, new lines, or any of the following characters: '\_', '+', '-', '@', '/', '[', ']', '!', '\$', '%', '^', '&amp;', '\*', '(', ')', '=', '&lt;', '&gt;'.

## Add tags - optional Info

Tags are key-value pairs that you can add to AWS resources to help identify, organize, or search for resources.



No tags associated with the resource.

**Add new tag**

You can add up to 50 more tags.

**Click create**

Cancel

Previous

**Create role**

✓ Role Role-cloud-institute created. View role ✕

**Roles (5)** [Info](#) Refresh Delete Create role

An IAM role is an identity you can create that has specific permissions with credentials that are valid for short durations. Roles can be assumed by entities that you trust.

**Role Created**

<input type="checkbox"/>	Role name	Trusted entities	Last activity
<input type="checkbox"/>	<a href="#">Role-cloud-institute</a>	AWS Service: lambda	-

## Create a policy in IAM

Go to IAM Dashboard

**Identity and Access Management (IAM)** ✕

**Dashboard**

▼ **Access management**

- User groups
- Users
- Roles
- Policies**
- Identity providers
- Account settings

▼ **Access reports**

- Access Analyzer

**Security recommendations** 2 Refresh

- ⚠ **Add MFA for root user**  
Add MFA for root user - Enable multi-factor authentication (MFA) for the root user to improve security for this account. Add MFA
- ⚠ **Deactivate or delete access keys for root user**  
Deactivate or delete the access keys for the root user. Instead, use access keys attached to an IAM user to improve security. Manage access keys

**IAM resources** Refresh

Resources in this AWS Account

User groups	Users	Roles	Policies	Identity providers
0	1	5	1	0

**Click policies**

**Identity and Access Management (IAM)**

Dashboard

## ▼ Access management

User groups

Users

Roles

**Policies**

Identity providers

IAM &gt; Policies

**Policies (1195)** Info

A policy is an object in AWS that defines permissions.



Actions ▼

Delete

**Create policy**

Filter by Type

All types ▼

**Click create**

4 5 6 7 ... 60 &gt; ⚙

	Policy name	Type	Used as	Description
<input type="radio"/>	<a href="#">AccessAnalyzerSer...</a>	AWS managed	None	-
<input type="radio"/>	<a href="#">AdministratorAccess</a>	AWS managed - job fu...	None	Provides full access to AWS services an
<input type="radio"/>	<a href="#">AdministratorAcce...</a>	AWS managed	None	Grants account administrative permis
<input type="radio"/>	<a href="#">AdministratorAcce...</a>	AWS managed	None	Grants account administrative permis

IAM &gt; Policies &gt; Create policy

Step 1

**Specify permissions**

Step 2

Review and create

**Specify permissions** Info

Add permissions by selecting services, actions, resources, and conditions. Build permission statements using the JSON editor.

Policy editor

**Click on select a service**

Visual

JSON

Actions ▼

▼ **Select a service**

Specify what actions can be performed on specific resources in a service.

Service

+ Add more permissions

Cancel

**Next**

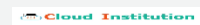
IAM &gt; Policies &gt; Create policy

Step 1

**Specify permissions**

Step 2

Review and create



Filter services

## Commonly used services

Auto Scaling

CloudFront

EC2

IAM

Lambda

RDS

S3

SNS



## Other services

+ Add more permissions

**Select EC2**

▼ EC2

Allow 35 Actions



Specify what actions can be performed on specific resources in EC2.

▼ Actions allowed

Specify actions from the service to be allowed.

Effect  
☒ Allow ☐ Deny

Manual actions | [Add actions](#)

☐ All EC2 actions (ec2:\*)

Access level Expand all | Collapse all

► List (174)

▼ Read (Selected 35/35)

☒ All read actions

<input checked="" type="checkbox"/> ExportClientVpnClientCertificateRevocationList <a href="#">Info</a>	<input checked="" type="checkbox"/> ExportClientVpnClientConfiguration <a href="#">Info</a>	<input checked="" type="checkbox"/> GetAssociatedEnclaveCertificateIamRoles <a href="#">Info</a>
<input checked="" type="checkbox"/> GetAssociatedIpv6PoolCidrs <a href="#">Info</a>	<input checked="" type="checkbox"/> GetAwsNetworkPerformanceData <a href="#">Info</a>	<input checked="" type="checkbox"/> GetCapacityReservationUsage <a href="#">Info</a>
<input checked="" type="checkbox"/> GetCoipPoolUsage <a href="#">Info</a>	<input checked="" type="checkbox"/> GetConsoleOutput <a href="#">Info</a>	<input checked="" type="checkbox"/> GetConsoleScreenshot <a href="#">Info</a>
<input checked="" type="checkbox"/> GetDefaultCreditSpecification <a href="#">Info</a>	<input checked="" type="checkbox"/> GetEbsDefaultKmsKeyId <a href="#">Info</a>	<input checked="" type="checkbox"/> GetEbsEncryptionByDefault <a href="#">Info</a>

▼ Resources

Specify resource ARNs for these actions.

☒ All Select all  
☐ Specific

 The all wildcard "\*" may be overly permissive for the selected actions. Allowing specific ARNs for these service resources can improve security.

Cloud Institution

► Request conditions - optional

Actions on resources are allowed or denied only when these conditions are met.

+ Add more permissions

Security: 0 Errors: 0 Warnings: 0 Suggestions: 0

Click next

Cancel **Next**

Review and create [Info](#)

Review the permissions, specify details, and tags.

## Policy details

Mention a policy name

## Policy name

Enter a meaningful name to identify this policy.

EC2-Read-only-policy

Maximum 128 characters. Use alphanumeric and '+', '@', '-' characters.

## Description - optional

Add a short explanation for this policy.

Maximum 1,000 characters. Use alphanumeric and '+', '@', '-' characters.

Permissions defined in this policy [Info](#)

Edit

Policy document specify which actions are allowed or denied. To define permissions for an IAM identity (user, user group, or role), attach a policy to it

Search

Allow (1 of 411 services)

☐ Show remaining 410 services

Service	Access level	Resource	Request condition
<a href="#">EC2</a>	Full: Read	All resources	None

Add tags - optional [Info](#)

Tags are key-value pairs that you can add to AWS resources to help identify, organize, or search for resources.

No tags associated with the resource.

Add new tag

You can add up to 50 more tags.

Click create

Cancel

Previous

Create policy

## Identity and Access Management (IAM)

Search IAM

Cloud Institution

Dashboard

Access management

User groups

Users

Roles

Policies

Policy s3fullaccess-may-08-policy created.

View policy

Policies (1196) [Info](#)

A policy is an object in AWS that defines permissions.

Refresh

Actions

Delete

Create policy

Search

Filter by Type

All types

Policy name	Type	Used as
<input type="radio"/> <a href="#">AccessAnalyzerSer...</a>	AWS managed	None
<input type="radio"/> <a href="#">AdministratorAccess</a>	AWS managed - job fu...	None

Click on view

IAM > Policies

Cloud Institution

**Policies (1195)** [Info](#)

A policy is an object in AWS that defines permissions.

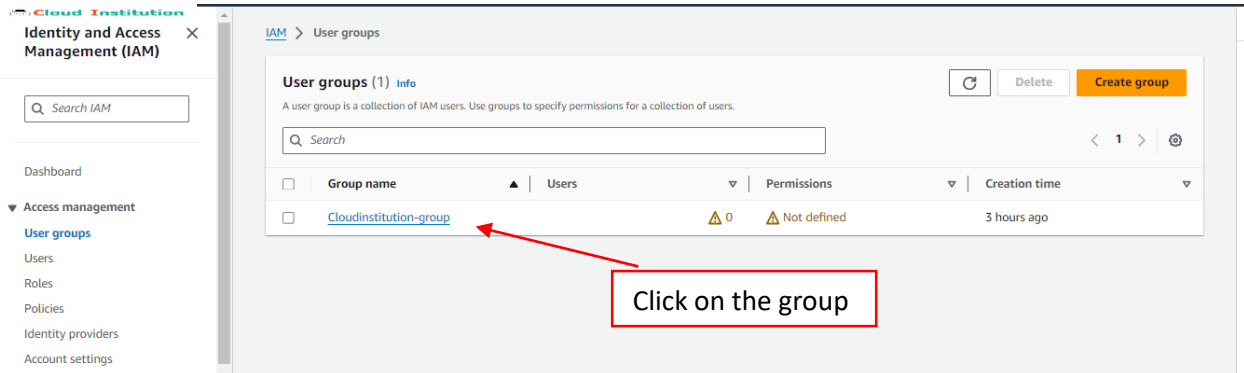
Filter by Type: Customer managed 1 match

Search

	Policy name	Type	Used as	Description
<input type="radio"/>	<a href="#">EC2-Read-only-policy</a>	Customer managed	None	-

Created policy

## Attach user and policy to the user group



Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

- User groups
- Users
- Roles
- Policies
- Identity providers
- Account settings

Cloud Institution > IAM > User groups

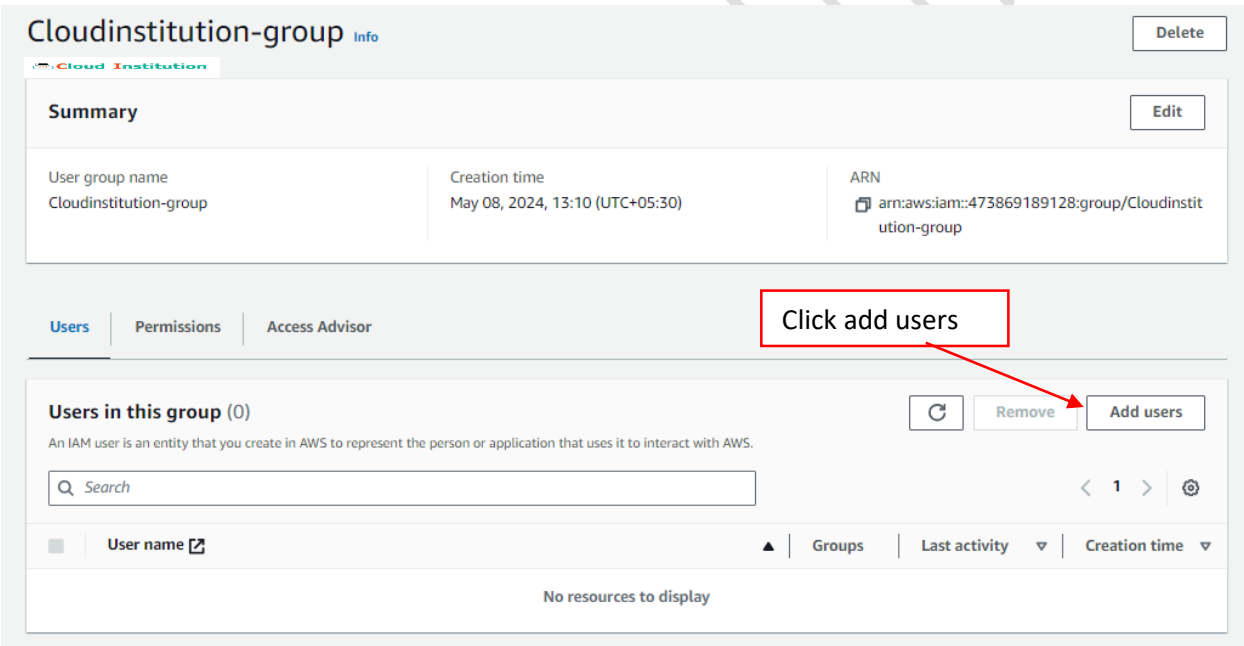
User groups (1) Info

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

Search

<input type="checkbox"/>	Group name	Users	Permissions	Creation time
<input type="checkbox"/>	<a href="#">Cloudinstitution-group</a>	0	Not defined	3 hours ago

Click on the group



Cloudinstitution-group Info

Delete

Summary

Edit

User group name: Cloudinstitution-group

Creation time: May 08, 2024, 13:10 (UTC+05:30)

ARN: arn:aws:iam:473869189128:group/Cloudinstitution-group

Users | Permissions | Access Advisor

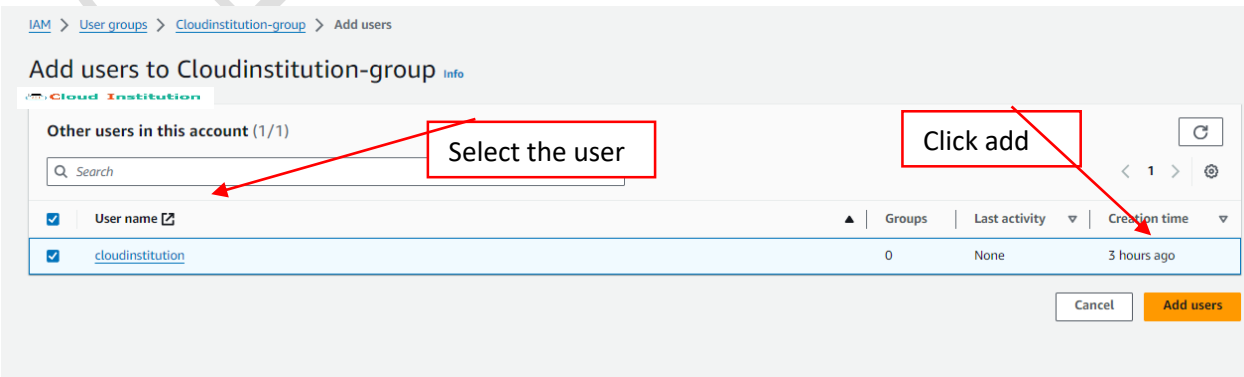
Click add users

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.

Search

<input type="checkbox"/>	User name	Groups	Last activity	Creation time
No resources to display				



Cloud Institution > IAM > User groups > Cloudinstitution-group > Add users

Add users to Cloudinstitution-group Info

Other users in this account (1/1)

Search

<input checked="" type="checkbox"/>	User name	Groups	Last activity	Creation time
<input checked="" type="checkbox"/>	<a href="#">cloudinstitution</a>	0	None	3 hours ago

Select the user

Click add

Cancel Add users



Users (1) | Permissions | Access Advisor

Cloud Institution

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.

User added < 1 > Settings

<input type="checkbox"/>	User name <a href="#">🔗</a>	Groups	Last activity	Creation time
<input type="checkbox"/>	<a href="#">cloudinstitution</a>	1	None	3 hours ago

[IAM](#) > [User groups](#) > Cloudinstitution-group

Cloudinstitution-group [Info](#) Delete

Cloud Institution

Summary Edit

User group name	Creation time	ARN
Cloudinstitution-group	May 08, 2024, 13:10 (UTC+05:30)	<a href="#">🔗</a> arn:aws:iam::473869189128:group/Cloudinstitution-group

Users (1) | Permissions | Access Advisor

Permissions policies (0) [Info](#) Refresh Simulate Remove Add permissions

You can attach up to 10 managed policies.

Filter by Type: All types < 1 > Settings

<input type="checkbox"/>	Policy name <a href="#">🔗</a>	Type	Attached entities
--------------------------	-------------------------------	------	-------------------

Cloud Institution

Users (1) | Permissions | Access Advisor

Permissions policies (0) [Info](#) Refresh Simulate Remove Add permissions

You can attach up to 10 managed policies.

Filter by Type: All types < 1 > Settings

<input type="checkbox"/>	Policy name <a href="#">🔗</a>	Type	Attached entities
--------------------------	-------------------------------	------	-------------------

No resources to display

Add permissions Attach policies Create inline policy

IAM > User groups > Cloudinstitution-group > Add permissions

## Attach permission policies to Cloudinstitution-group

► Current permissions policies (0)

Other permission policies (1/926)

You can attach up to 10 managed policies to this user group. All of the users in this group inherit the attached permissions.

Filter by Type

Q read X Customer managed 1 match

<input checked="" type="checkbox"/>	Policy name	Type	Used as
<input checked="" type="checkbox"/>	<a href="#">EC2-Read-only-policy</a>	Customer managed	None

Cancel Attach policies

Select the created policy

Click attach

Users (1) Permissions Access Advisor

Permissions policies (1) Info

You can attach up to 10 managed policies.

Search All types

<input type="checkbox"/>	Policy name	Type	Attached entities
<input type="checkbox"/>	<a href="#">EC2-Read-only-policy</a>	Customer managed	1

Policy attached