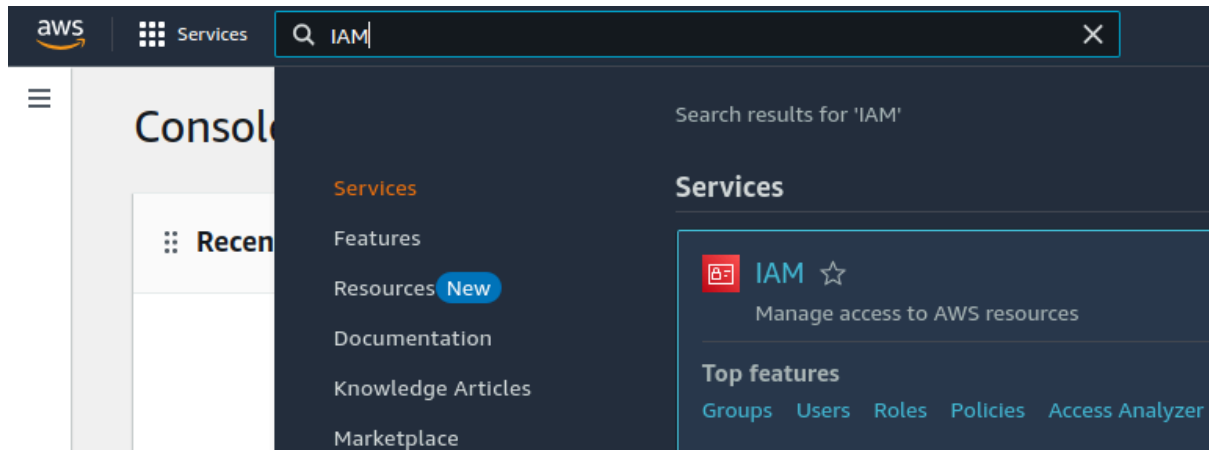
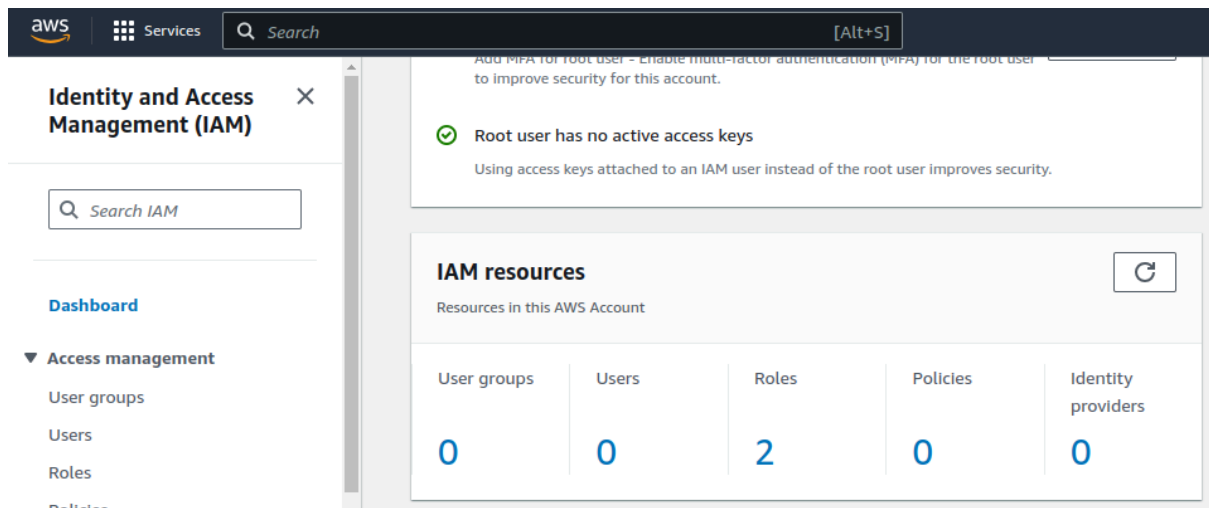


IAM Tasks

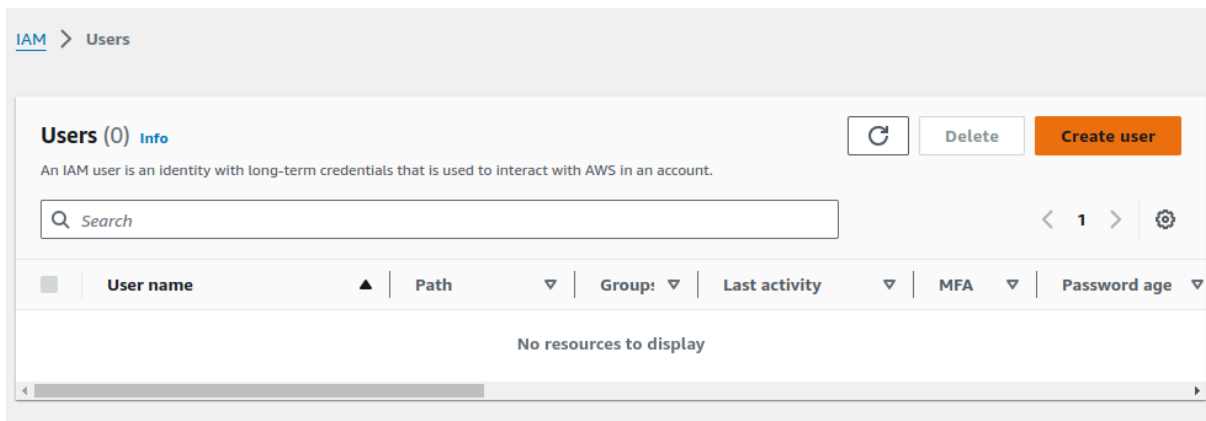
Create User and give permissions



Go to the IAM Dashboard in the AWS Management Console



Click the Add user button



Provide a username for the new user

Step 1

Specify user details

Step 2

Set permissions

Step 3

Review and create

Step 4

Retrieve password

Specify user details

User details

User name

ayush-demo

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.

Configure other details

Console password

☒ Autogenerated password

You can view the password after you create the user.

☐ Custom password

Enter a custom password for the user.

- Must be at least 8 characters long
- Must include at least three of the following mix of character types: uppercase letters (A-Z), lowercase letters (a-z), numbers (0-9), and symbols !@# \$ % ^ & * () _ + - (hyphen) = [] { } ' `

☐ 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

Add permissions if necessary

Set permissions

Add user to an existing group or create a new one. Using groups is a best-practice way to manage user's permissions by job functions. [Learn more](#)

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.

Get started with groups
Create a group and select policies to attach to the group. We recommend using groups to manage user permissions by job function, AWS service access, or custom permissions. [Learn more](#)

Create group

Sign in as IAM User



Sign in as IAM user

Account ID (12 digits) or account alias

257394483480

IAM user name

ayush-demo

Password

.....

☐ Remember this account

Sign in

AWS account 257394483480

IAM user name ayush-demo

Old password

New password

Retype new password

Confirm password change

[Sign in using root user email](#)

English ▼

[Terms of Use](#) [Privacy Policy](#) © 1996-2024, Amazon Web Services, Inc. or its affiliates.

Sign in Successful

Stockholm ▼

ayush-demo @ 2573-9448-3480 ▲

Reset to default

Account ID: 2573-9448-3480

IAM user: ayush-demo

Account

Organization

Service Quotas

Billing and Cost Management

Security credentials

Switch role

Sign out

Applications (0) Info

Region: Europe (Stockholm)

eu-north-1 (Current Region) ▼

Find applications

Name ▲

Description ▼

Access denied

Resources

EC2 Global View

You are using the following Amazon EC2 resources in the Europe (Stockholm) Region:

Instances (running) 0

Capacity Reservations API Error

Elastic IPs API Error

Key pairs API Error

Placement groups API Error

Snapshots API Error

Auto Scaling Groups API Error

Dedicated Hosts API Error

Instances API Error

Load balancers API Error

Security groups API Error

Volumes API Error

EC2 Free Tier Info

Offers for all AWS Regions.

0 EC2 free tier offers in use

End of month forecast

User: arn:aws:iam::257394483480:user/ayush-demo is not authorized to perform: freetier:GetFreeTierUsage on resource: arn:aws:freetier:us-east-1:257394483480:/GetFreeTierUsage because no Identity-based policy allows the freetier:GetFreeTierUsage action

Exceeds free tier

User: arn:aws:iam::257394483480:user/ayush-demo is not authorized to perform: f

Adding Admin Permissions

IAM > Users > ayush-demo > Add permissions

Step 1

Add permissions

Step 2

Review

Add permissions

Add user to an existing group or create a new one. Using groups is a best-practice way to manage user's permissions by job functions. [Learn more](#)

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, inline policies, and any existing permissions boundaries 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.

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, inline policies, and any existing permissions boundaries 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.

Permissions policies (1/1226)

Filter by Type

All types

4 matches

< 1 >

<input type="checkbox"/>	Policy name	Type	Attached entities
<input checked="" type="checkbox"/>	AdministratorAccess	AWS managed - Job function	0
<input type="checkbox"/>	AdministratorAccess-Amplify	AWS managed	0
<input type="checkbox"/>	AdministratorAccess-AWSE...	AWS managed	0
<input type="checkbox"/>	AWSAuditManagerAdminis...	AWS managed	0

Cancel

Next

Review

The following policies will be attached to this user. [Learn more](#)

User details

User name
ayush-demo

Permissions summary (1)

< 1 >


Name	Type	Used as
AdministratorAccess	AWS managed - job function	Permissions policy

Cancel


Previous

Add permissions

ARN

 `arn:aws:iam::257394483480:user/ayush-demo`

Console access

 Enabled without MFA


Access key 1

[Create access key](#)

Created

September 10, 2024, 12:46 (UTC+05:30)

Last console sign-in

 Today

Permissions

Groups

Tags


Security credentials

Access Advisor



Permissions policies (2)

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

Filter by Type

 Search

All types

<input type="checkbox"/>	Policy name	Type	Attached via
<input type="checkbox"/>	 AdministratorAccess	AWS managed - job function	Directly
<input type="checkbox"/>	 IAMUserChangePassword	AWS managed	Directly

Permission successfully granted

Resources

EC2 Global View

You are using the following Amazon EC2 resources in the Europe (Stockholm) Region:

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

EC2 Free Tier

Info

Offers for all AWS Regions.

0 EC2 free tier offers in use

End of month forecast

0 offers forecasted to exceed free tier limit.

Exceeds free tier

0 offers exceeded and is now pay-as-you-go pricing.

[View Global EC2 resources](#)

[View all AWS Free Tier offers](#)

Custom Policy

Navigate to Policy in IAM Dashboard

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

User groups

Users

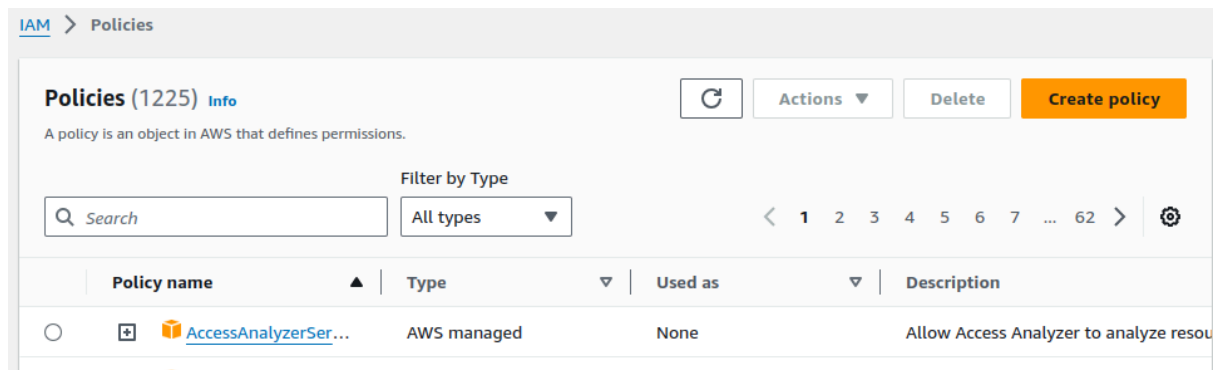
Roles

Policies

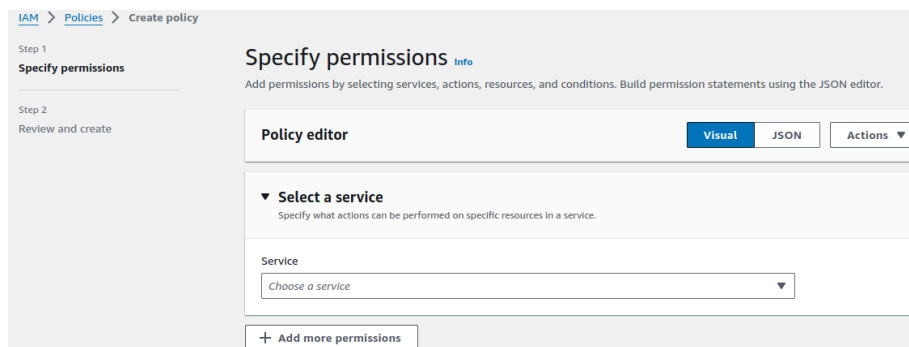
Identity providers

Account settings

Create a Policy



Scroll to Specify Permissions



Create a custom policy to get access to EC2 instances and all services in IAM.

Under the **Visual editor** tab, start defining permissions

- **Service:** Click on **Choose a service** and select **EC2**.
- **Actions:** Choose **All EC2 actions** by selecting the checkbox next to **All EC2 actions**.
- **Resources:** Keep the default selection, which is **All resources**.

Policy editor

VisualJSONActions

▼ EC2

AllowAll actions

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

▼ Actions allowed

Specify actions from the service to be allowed.

Filter Actions

Effect
☒ Allow ☐ Deny

Manual actions | [Add actions](#)

☒ All EC2 actions (ec2:*)

Now, add permissions for IAM services

- **Service:** Click **Add additional permissions** and select **IAM**.
- **Actions:** Select **All IAM actions** by choosing the checkbox next to **All IAM actions**.
- **Resources:** Leave it as **All resources**.

▼ IAM

AllowAll actions

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

▼ Actions allowed

Specify actions from the service to be allowed.

Filter Actions

Effect
☒ Allow ☐ Deny

Manual actions | [Add actions](#)

☒ All IAM actions (iam:*)

Provide a **Name**

Review and create [Info](#)

Review the permissions, specify details, and tags.

Policy details

Policy name

Enter a meaningful name to identify this policy.

EC2AndIAMFullAccessPolicy

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

Description - optional

Add a short explanation for this policy.

Full access to EC2 and IAM

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

Click **Create policy**

Permissions defined in this policy [Info](#)

Edit

Permissions defined in this 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 (2 of 421 services)

Show remaining 419 services

Service	Access level	Resource	Request condition
EC2	Full access	All resources	None
IAM	Full access	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.

Cancel

Previous

Create policy

Policy Successfully Created

EC2AndIAMFullAccessPolicy

Info

Edit

Delete

Full access to EC2 and IAM

Policy details

Type	Creation time	Edited time	ARN
Customer managed	September 10, 2024, 13:23 (UTC+05:30)	September 10, 2024, 13:23 (UTC+05:30)	arn:aws:iam::257394483480:policy/EC2AndIAMFullAccessPolicy

Permissions

Entities attached

Tags

Policy versions (1)

Access Advisor

Permissions defined in this policy

Info

Copy

Edit

Summary

JSON

Permissions defined in this 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

1

2

3

4

5

6

7

8

9

10

11

12

13

14

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "VisualEditor0",
      "Effect": "Allow",
      "Action": [
        "iam:*",
        "ec2:*"
      ],
      "Resource": "*"
    }
  ]
}
```

JSON code

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "VisualEditor0",
      "Effect": "Allow",
      "Action": [
        "iam:*",
        "ec2:*"
      ],
      "Resource": "*"
    }
  ]
}
```

Create custom policy to get access to all EC2 services and get IAM users

Under the **Visual editor** tab, start defining permissions

- **Service:** Select **EC2**.
- **Actions:** Choose **All EC2 actions** by selecting **All EC2 actions**.
- **Resources:** Keep the default option of **All resources**.

The screenshot shows the AWS IAM Visual Editor interface for the EC2 service. At the top, there's a header for 'EC2' with a green 'Allow' button and a link to 'All actions'. Below this, a section titled 'Actions allowed' prompts the user to 'Specify actions from the service to be allowed.' It features a search bar labeled 'Filter Actions'. To the right, there are radio buttons for 'Effect', with 'Allow' selected. Below the search bar, there's a link for 'Manual actions | Add actions'. A list of actions is shown, with 'All EC2 actions (ec2:*)' checked. Under the 'Access level' section, there are expandable lists for 'List' (176/176), 'Read' (36/36), 'Write' (424/424), and 'Permissions management' (5/5). On the right side of the 'Access level' section, there are links for 'Expand all' and 'Collapse all'.

Add permissions for IAM services

- **Service:** Click **Add additional permissions** and select **IAM**.
- **Actions:** In the search bar, type **GetUser** and select **GetUser**. Similarly, type **ListUsers** and select **ListUsers**.
- **Resources:** Leave it as **All resources**.

▼ IAM

Allow 1 Action



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

▼ Actions allowed

Specify actions from the service to be allowed.

Effect

☒ Allow ☐ Deny

Manual actions | [Add actions](#)

☐ All IAM actions (iam:*)

Access level

[Expand all](#) | [Collapse all](#)

▼ List (Selected 1/38)

▼ List (Selected 1/38)

☐ All list actions

☐ [GetAccountSummary](#) [Info](#)

☐ [ListAccountAliases](#) [Info](#)

☐ [ListAttachedUserPolicies](#) [Info](#)

☐ [ListGroupPolicies](#) [Info](#)

☐ [ListInstanceProfiles](#) [Info](#)

☐ [ListMFADevices](#) [Info](#)

☐ [ListOpenIDConnectProviderTags](#) [Info](#)

☐ [ListPolicyTags](#) [Info](#)

☐ [ListRoles](#) [Info](#)

☐ [ListSAMLProviderTags](#) [Info](#)

☐ [ListServiceSpecificCredentials](#) [Info](#)

☐ [ListSTSRegionalEndpointsStatus](#) [Info](#)

☐ [ListUserTags](#) [Info](#)

☐ [GetLoginProfile](#) [Info](#)

☐ [ListAttachedGroupPolicies](#) [Info](#)

☐ [ListCloudFrontPublicKeys](#) [Info](#)

☐ [ListGroups](#) [Info](#)

☐ [ListInstanceProfilesForRole](#) [Info](#)

☐ [ListMFADeviceTags](#) [Info](#)

☐ [ListPolicies](#) [Info](#)

☐ [ListPolicyVersions](#) [Info](#)

☐ [ListRoleTags](#) [Info](#)

☐ [ListServerCertificates](#) [Info](#)

☐ [ListSigningCertificates](#) [Info](#)

☐ [ListUserPolicies](#) [Info](#)

☐ [ListVirtualMFADevices](#) [Info](#)

☐ [ListAccessKeys](#) [Info](#)

☐ [ListAttachedRolePolicies](#) [Info](#)

☐ [ListEntitiesForPolicy](#) [Info](#)

☐ [ListGroupsForUser](#) [Info](#)

☐ [ListInstanceProfileTags](#) [Info](#)

☐ [ListOpenIDConnectProviders](#) [Info](#)

☐ [ListPoliciesGrantingServiceAccess](#) [Info](#)

☐ [ListRolePolicies](#) [Info](#)

☐ [ListSAMLProviders](#) [Info](#)

☐ [ListServerCertificateTags](#) [Info](#)

☐ [ListSSHPublicKeys](#) [Info](#)

☒ [ListUsers](#) [Info](#)

Provide a **Name and Description**

Review and create [Info](#)

Review the permissions, specify details, and tags.

Policy details

Policy name

Enter a meaningful name to identify this policy.

EC2FullAccessIAMReadOnlyPolicy

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

Description - optional

Add a short explanation for this policy.

Full EC2 access with read-only IAM users access

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

Click **Create policy**

Permissions defined in this policy [Info](#)

Edit

Permissions defined in this 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 (2 of 421 services)

Show remaining 419 services

Service	Access level	Resource	Request condition
EC2	Full access	All resources	None
IAM	Limited: List	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.

Cancel

Previous

Create policy

Policy Successfully Created

Policies (1227) [Info](#)

A policy is an object in AWS that defines permissions.

Filter by Type
All types ▼ 1 match

	Policy name ▲	Type ▼	Used as ▼
<input type="radio"/>	EC2FullAccessIAMRea...	Customer managed	None

Create a new User

Following all the steps as mentioned above to create a user

User details

User name

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

☐ Autogenerated password
You can view the password after you create the user.

☒ Custom password
Enter a custom password for the user.

- Must be at least 8 characters long
- Must include at least three of the following mix of character types: uppercase letters (A-Z), lowercase letters (a-z), numbers (0-9), and symbols ! @ # \$ % ^ & * () _ + - (hyphen) = [] { } | ' "

☐ Show 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](#)

Console sign-in URL

<https://257394483480.signin.aws.amazon.com/console>

User name

test-user

Console password

***** [Show](#)

Create User Group

In the IAM Dashboard, go to User groups and click Create group.

Identity and Access Management (IAM)

Search IAM

Dashboard

▼ Access management

User groups

[IAM](#) > User groups

User groups (0)

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

Search

Refresh Delete Create group

Group name	Users	Permissions	Creation time
No resources to display			

Add user to the user group

IAM > User groups > Create user group

Create user group

Name the group

User group name
Enter a meaningful name to identify this group.

demo-user-group

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

Add users to the group - Optional (1/2) [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.

Search

< 1 > ⚙️

<div><div></div><div>User name</div></div>	<div><div></div><div>Groups</div></div>	<div><div></div><div>Last activity</div></div>	<div><div></div><div>Creation time</div></div>
<div><div></div><div>ayush-demo</div></div>	0	56 minutes ago	1 hour ago
<div><div><div></div></div><div>test-user</div></div>	0	None	2 minutes ago

Attach permissions policies page

Attach permissions policies - *Optional* (2/949) [Info](#)

You can attach up to 10 policies to this user group. All the users in this group will have permissions that are defined in the selected policies.

Filter by Type

Customer managed ▼ 2 matches < 1 > ⚙

<input checked="" type="checkbox"/>	Policy name ▲	Type ▼	Used as ▼	Description
<input checked="" type="checkbox"/>	EC2AndIAMFullAccess...	Customer managed	None	Full access to EC2 and IAM
<input checked="" type="checkbox"/>	EC2FullAccessIAMRea...	Customer managed	None	Full EC2 access with read-only IAM use

Cancel Create user group

User group Created

[IAM](#) > User groups

User groups (1) [Info](#)

[Refresh](#) [Delete](#) [Create group](#)

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

< 1 > [Settings](#)

<input type="checkbox"/>	Group name ▾	Users ▾	Permissions ▾	Creation time ▾
<input type="checkbox"/>	demo-user-group	1	✓ Defined	Now

Sign in Using New User

Enter Credentials



Sign in as IAM user

Account ID (12 digits) or account alias

IAM user name


Password


☐ Remember this account

Sign In Successful

Stockholm ▼

test-user @ 2573-9448-3480 ▲

Account ID: 2573-9448-3480 

IAM user: test-user 

Account

Organization

Service Quotas

Billing and Cost Management

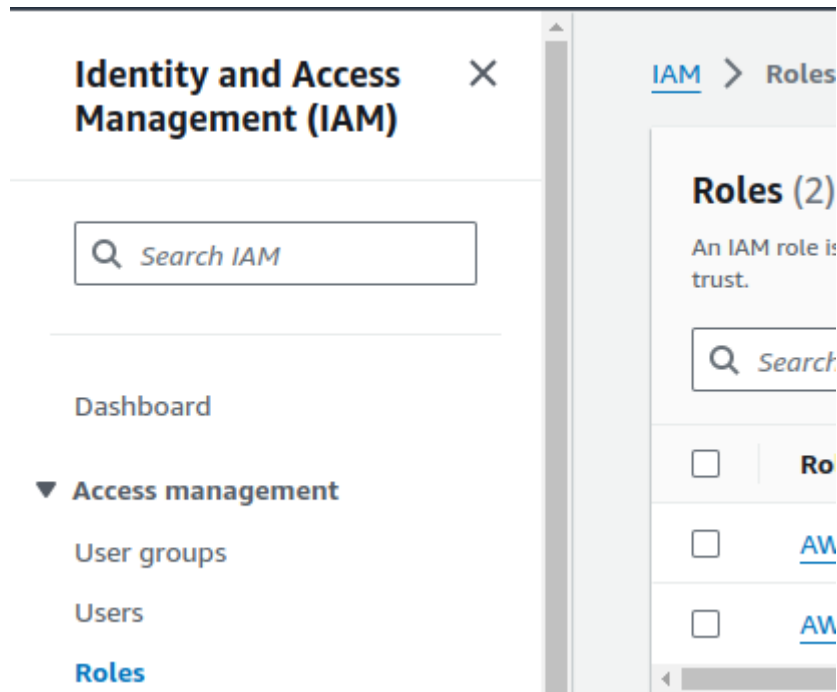
Security credentials

Switch role

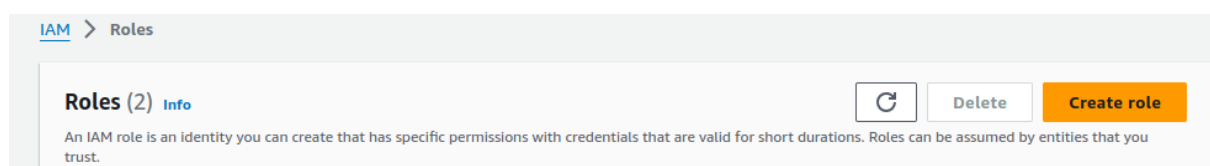
Sign out

Create Roles

Navigate to Roles in IAM Dashboard



Click on Create Role



Select trusted entity

[IAM](#) > [Roles](#) > Create role

Step 1

Select trusted entity

Step 2

Add permissions

Step 3

Name, review, and create

Select trusted entity [Info](#)

Trusted entity type

☒ **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.

Enter Service Name

Use case

Allow an AWS service like EC2, Lambda, or others to perform actions in this account.

Service or use case

EC2 ▼

Choose a use case for the specified service.

Use case

☒ **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.

Add Permissions to the role

Add permissions Info

Permissions policies (1/949) Info

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

s3re

X

Filter by Type

All types

2 matches

< 1 >

	Policy name	Type	Description
<input checked="" type="checkbox"/>	AmazonS3ReadOnlyAccess	AWS managed	Provides read only access to all bucket...
<input type="checkbox"/>	AWSBackupServiceRolePo...	AWS managed	Policy containing permissions necessar...

► Set permissions boundary - optional

Cancel

Previous

Next

Review and Create

Enter name and description

Name, review, and create

Role details

Role name

Enter a meaningful name to identify this role.

test-role

Maximum 64 characters. Use alphanumeric and '+=, @-/_[]!#\$%^&*(){};:"'` characters.

Description

Add a short explanation for this role.

Grants S3 bucket read access

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

Step 1: Select trusted entities

Edit

Role Created Successfully

Roles (3) [Info](#)

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.

Q Search

< 1 >

<input type="checkbox"/>	Role name	Trusted entities	Last activity
<input type="checkbox"/>	AWSServiceRoleForSupport	AWS Service: support (Service-Linker	-
<input type="checkbox"/>	AWSServiceRoleForTrustedAdvisor	AWS Service: trustedadvisor (Service	-
<input type="checkbox"/>	test-role	AWS Service: ec2	-