

CLOUD COMPUTING

PRACTICAL 3

NAME: BHARVI CHAVDA

ROLL NO. : A006

SAP ID: 86062300028

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

User groups

Users

Roles

Policies

Identity providers

Account settings

Access reports

Access Analyzer

External access

Unused access

Analyzer settings

Credential report

Organization activity

Service control policies

Related consoles

[IAM Identity Center](#)

[AWS Organizations](#)

IAM > Dashboard

IAM Dashboard

Security recommendations

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

Root user has no active access keys

Using access keys attached to an IAM user instead of the root user improves security.

IAM resources

Resources in this AWS Account

User groups

0

Users

0

Roles

2

Policies

0

Identity providers

0

What's new

Updates for features in IAM

AWS IAM Access Analyzer now offers policy checks for public and critical resource access. 2 months ago

AWS IAM Access Analyzer now offers recommendations to refine unused access. 2 months ago

AWS Launches Console-based Bulk Policy Migration for Billing and Cost Management Console Access. 3 months ago

IAM Roles Anywhere now supports modifying the mapping of certificate attributes. 4 months ago

View all

AWS Account

Account ID

590183735361

Account Alias

Create

Sign-in URL for IAM users in this account

<https://590183735361.signin.aws.amazon.com/console>

Quick Links

My security credentials

Manage your access keys, multi-factor authentication (MFA) and other credentials.

Tools

Policy simulator

The simulator evaluates the policies that you choose and determines the effective permissions for each of the actions that you specify.

Additional information

Users (0) Info

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

Search

User name

Path

Group

Last activity

MFA

Password age

Console last sign-in

Access key ID

Active key age

No resources to display

IAM > Users > Create user

Step 1

Specify user details

Step 2

Set permissions

Step 3

Review and create

Specify user details

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.

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.

Cancel

Next

IAM > Users > Create user

Step 1

Specify user details

Step 2

Set permissions

Step 3

Review and create

Specify user details

User details

User name

BHARV

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.

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.

Cancel

Next

IAM > Users > Create user

Step 1
Specify user details

Step 2
Set permissions

Step 3
Review and create

Review and create

Review your choices. After you create the user, you can view and download the autogenerated password, if enabled.

User details

User name	Console password type	Require password reset
BHARVI	None	No

Permissions summary

< 1 >

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

🟢 User created successfully

View user

×

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

IAM > Users

Users (1) info

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

🔍 Search

< 1 > ⓘ

🔄

Delete

Create user

<input type="checkbox"/>	User name	Path	Group	Last activity	MFA	Password age	Console last sign-in	Access key ID	Active key age
<input type="checkbox"/>	BHARVI	/	0	-	-	-	-	-	-

IAM > Users > BHARVI

BHARVI info

Delete

Summary

ARN arn:aws:iam::590183735361:user/BHARVI	Console access Disabled	Access key 1 Create access key
Created August 17, 2024, 16:43 (UTC+05:30)	Last console sign-in -	

Permissions

Groups

Tags

Security credentials

Access Advisor

Console sign-in

Enable console access

Console sign-in link https://590183735361.signin.aws.amazon.com/console	Console password Not enabled
---	---------------------------------

Multi-factor authentication (MFA) (0)

Use MFA to increase the security of your AWS environment. Signing in with MFA requires an authentication code from an MFA device. Each user can have a maximum of 8 MFA devices assigned. [Learn more](#)

Remove

Resync

Assign MFA device

Type	Identifier	Certifications	Created on
No MFA devices. Assign an MFA device to improve the security of your AWS environment			

Assign MFA device

Enable console access



Enable console access for BHARVI.

Console password

☒ Autogenerated password

☐ Custom password

☐ User must create new password at next sign-in

Users automatically get the [IAMUserChangePassword](#) policy to allow them to change their own password.

Cancel

Enable console access

Console password



You have successfully enabled the user's new password.

This is the only time you can view this password. After you close this window, if the password is lost, you must create a new one.

Console sign-in URL

<https://590183735361.signin.aws.amazon.com/console>

User name

BHARVI

Console password

jPE3*+7l [Hide](#)

Download .csv file

Close

jPE3*+7l j



Sign in as IAM user

Account ID (12 digits) or account alias

590183735361

IAM user name

BHARVI

Password

.....

☐ Remember this account

Sign in

[Sign in using root user email](#)

[Forgot password?](#)

Amazon Lightsail

Lightsail is the easiest way
to get started on AWS

[Learn more »](#)



English

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Services

Search

[Alt+S]

Sydney

BHARVI @ 5901-8373-5361

Console Home

Reset to default layout

+ Add widgets

Recently visited

No recently visited services

Explore one of these commonly visited AWS services.

EC2 S3 RDS Lambda

View all services

Applications (0)

Region: Asia Pacific (Sydney)

ap-southeast-2 (Current Region)

Find applications

< 1 >

Name	Description	Region	Originating account
Access denied			

Go to myApplications

Welcome to AWS

Getting started with AWS

Learn the fundamentals and find valuable information to get the most out of AWS.

Training and certification

Learn from AWS experts and advance your skills and knowledge.

AWS Health

No health data

You don't have permissions to access AWS Health.

Cost and usage

Current month costs

Access denied

Forecasted month end costs

Access denied

Savings opportunities

Access denied

Cost breakdown

Access denied

Identity and Access Management (IAM)

Q Search IAM

Dashboard

Access management

- User groups
- Users
- Roles
- Policies

Identity providers

Account settings

Access reports

- Access Analyzer
 - External access
 - Unused access
- Analyzer settings
- Credential report
- Organization activity
- Service control policies

Related consoles

- IAM Identity Center
- AWS Organizations

Policies (1222)

A policy is an object in AWS that defines permissions.

Q Search

Filter by Type

- All types

< 1 2 3 4 5 6 7 ... 62 >

Policy name	Type	Used as	Description
AccessAnalyzerServiceRolePolicy	AWS managed	None	-
AdministratorAccess	AWS managed - job function	None	Provides full access to AWS services an...
AdministratorAccess-Amplify	AWS managed	None	Grants account administrative permis...
AdministratorAccess-AWSElasticBeanstalk	AWS managed	None	Grants account administrative permis...
AlexaForBusinessDeviceSetup	AWS managed	None	Provide device setup access to AlexaFo...
AlexaForBusinessFullAccess	AWS managed	None	Grants full access to AlexaForBusiness ...
AlexaForBusinessGatewayExecution	AWS managed	None	Provide gateway execution access to A...
AlexaForBusinessLifsizeDelegatedAccess...	AWS managed	None	Provide access to Lifesize AVS devices
AlexaForBusinessNetworkProfileServicePo...	AWS managed	None	-
AlexaForBusinessPolyDelegatedAccessPolicy	AWS managed	None	Provide access to Poly AVS devices
AlexaForBusinessReadOnlyAccess	AWS managed	None	Provide read only access to AlexaForB...
AmazonAPIGatewayAdministrator	AWS managed	None	Provides full access to create/edit/dele...
AmazonAPIGatewayInvokeFullAccess	AWS managed	None	Provides full access to invoke APIs in A...
AmazonAPIGatewayPushToCloudWatchLogs	AWS managed	None	Allows API Gateway to push logs to us...
AmazonAppFlowFullAccess	AWS managed	None	Provides full access to Amazon AppFlo...
AmazonAppFlowReadOnlyAccess	AWS managed	None	Provides read only access to Amazon A...

IAM > Policies > Create policy

Step 1

Specify permissions

Step 2

Review and create

Specify permissions

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

Policy editor

VisualJSONActions

Select a service

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

Service

Choose a service

+ Add more permissions

CancelNext

IAM > Policies > Create policy

Step 1

Specify permissions

Step 2

Review and create

Specify permissions

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

Policy editor

VisualJSONActions

S3

AllowAll actions

Specify what actions can be performed on specific resources in S3.

Actions allowed

Specify actions from the service to be allowed.

Filter Actions

Manual actions | Add actions

☒ All S3 actions (s3:*)

Access level

- List (Selected 15/15)
- Read (Selected 60/60)
- Write (Selected 57/57)
- Permissions management (Selected 15/15)
- Tagging (Selected 12/12)

Effect

- Allow
- Deny

Expand all | Collapse all

Dependent permissions not selected.

To grant permissions for the selected resource actions, including additional dependent actions might be required.

- s3:CreateJob requires 1 more action.
- s3:PauseReplication requires 2 more actions.
- s3:PutReplicationConfiguration requires 1 more action.

Policy editor

VisualJSONActions

1 {
2 "Version": "2012-10-17",
3 "Statement": [
4 {
5 "Sid": "Statement1",
6 "Effect": "Allow",
7 "Action": [],
8 "Resource": []
9 }
10]
11 }

Edit statement
Statement1Remove

Add actions

Choose a service
Filter services

Available
AMP
API Gateway
API Gateway V2
ASC
Access Analyzer
Account
Activate
Alexa for Business

Add a resourceAdd

Policy editor

VisualJSONActions

1 {
2 "Version": "2012-10-17",
3 "Statement": [
4 {
5 "Sid": "Statement1",
6 "Effect": "Allow",
7 "Action": "s3:*",
8 "Resource": "*" |
9 }
10]
11 }

Edit statement
Statement1Remove

Add actions

Choose a service
Filter services

Included
S3

Available
AMP
API Gateway
API Gateway V2
ASC
Access Analyzer
Account

Add a resourceAdd

Add a condition (optional)Add

+ Add new statement

JSONLn 8, Col 176037 of 6144 characters remaining

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

CancelNext

Policy editor

VisualJSONActions

1234567891011

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "BharviPolicy",
      "Effect": "Allow",
      "Action": "s3:*",
      "Resource": "*"
    }
  ]
}
```

Edit statement

Select a statement

Select an existing statement in the policy or add a new statement.

+ Add new statement

+ Add new statement

JSONLn 11, Col 16035 of 6144 characters remaining

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

CancelNext

IAM>Policies>Create policy

Step 1Specify permissions

Step 2Review and create

Review and create

Review the permissions, specify details, and tags.

Policy details

Policy name

Enter a meaningful name to identify this policy.

userpolicy

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

Description - optional

Add a short explanation for this policy.

policy of USER Bharvi

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

Permissions defined in this policy

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 (1 of 420 services)

Show remaining 419 services

Service	Access level	Resource	Request condition
S3	Full access	All resources	None

Add tags - optional

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

Identity and Access Management (IAM)

Q Search IAM

Dashboard

▼ Access management

Users

Roles

Policies

Identity providers

Account settings

▼ Access reports

Access Analyzer

External access

Unused access

Analyzer settings

Credential report

Organization activity

Service control policies

Related consoles

IAM Identity Center

AWS Organizations

Policy userpolicy created.

View policy

IAM > Policies

Policies (1223) info

A policy is an object in AWS that defines permissions.

Q Search

Filter by Type

All types

< 1 2 3 4 5 6 7 ... 62 >

⊕

	Policy name	Type	Used as	Description
<input type="radio"/>	AccessAnalyzerServiceRolePolicy	AWS managed	None	-
<input type="radio"/>	AdministratorAccess	AWS managed - job function	None	Provides full access to AWS services an...
<input type="radio"/>	AdministratorAccess-Amplify	AWS managed	None	Grants account administrative permis...
<input type="radio"/>	AdministratorAccess-AWSElasticBeanstalk	AWS managed	None	Grants account administrative permis...
<input type="radio"/>	AlexaForBusinessDeviceSetup	AWS managed	None	Provide device setup access to AlexaFo...
<input type="radio"/>	AlexaForBusinessFullAccess	AWS managed	None	Grants full access to AlexaForBusiness ...
<input type="radio"/>	AlexaForBusinessGatewayExecution	AWS managed	None	Provide gateway execution access to A...
<input type="radio"/>	AlexaForBusinessLifesizeDelegatedAccess...	AWS managed	None	Provide access to Lifesize AWS devices
<input type="radio"/>	AlexaForBusinessNetworkProfileServicePo...	AWS managed	None	-
<input type="radio"/>	AlexaForBusinessPolyDelegatedAccessPolicy	AWS managed	None	Provide access to Poly AWS devices
<input type="radio"/>	AlexaForBusinessReadOnlyAccess	AWS managed	None	Provide read only access to AlexaForB...
<input type="radio"/>	AmazonAPIGatewayAdministrator	AWS managed	None	Provides full access to create/edit/dele...
<input type="radio"/>	AmazonAPIGatewayInvokeFullAccess	AWS managed	None	Provides full access to invoke APIs in A...
<input type="radio"/>	AmazonAPIGatewayPushToCloudWatchLogs	AWS managed	None	Allows API Gateway to push logs to us...

IAM > Users > BHARVI

BHARVI info

Delete

Summary

ARN
 arn:aws:iam::590183735361:user/BHARVI

Console access
 Enabled without MFA

Access key 1
[Create access key](#)

Created
August 17, 2024, 16:43 (UTC+05:30)

Last console sign-in
 Never

Permissions

Groups

Tags

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		

► Permissions boundary (not set)

▼ Generate policy based on CloudTrail events

You can generate a new policy based on the access activity for this user, then customize, create, and attach it to this role. AWS uses your CloudTrail events to identify the resources and actions used and generate a policy. [Learn more](#)

IAM > Users > BHARVI > 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.

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

Cancel Next

IAM > Users > BHARVI > 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 policies (1/1225)

Filter by Type

X

All types

1 match

<input checked="" type="checkbox"/>	Policy name	Type	Attached entities
<input checked="" type="checkbox"/>	userpolicy	Customer managed	0

CancelNext

IAM > Users > BHARVI > Add permissions

Step 1

Add permissions

Step 2

Review

Review

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

User details

User name
BHARVI

Permissions summary (1)

Name	Type	Used as
userpolicy	Customer managed	Permissions policy

CancelPreviousAdd permissions

1 policy added

IAM > Users > BHARVI

BHARVI

Info

Delete

Summary

ARN
am:aws:iam::590183735361:user/BHARVI

Console access
Enabled without MFA

Access key 1
Create access key

Created
August 17, 2024, 16:43 (UTC+05:30)

Last console sign-in
Never

Permissions

Groups

Tags

Security credentials

Access Advisor

Permissions policies (1)

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

Filter by Type

All types

< 1 >

<input type="checkbox"/>	Policy name	Type	Attached via
<input type="checkbox"/>	userpolicy	Customer managed	Directly

Permissions boundary (not set)

IAM Dashboard

Security recommendations 1



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](#)

Root user has no active access keys

Using access keys attached to an IAM user instead of the root user improves security.

IAM resources



Resources in this AWS Account

User groups

0

Users

1

Roles

2

Policies

1

Identity providers

0

Specify permissions [Info](#)

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

Policy editor

[Visual](#)[JSON](#)[Actions](#) ▼

▼ EC2

[Allow](#) All 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

► List ([Selected 176/176](#))

► Read ([Selected 36/36](#))

► Write ([Selected 422/422](#))

► Permissions management ([Selected 5/5](#))

► Tagging ([Selected 2/2](#))

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



Dependent permissions not selected.

To grant permissions for the selected resource actions, including additional dependent actions might be required.

- ec2:AcceptAddressTransfer requires [1 more](#) action.
- ec2:AllocateAddress requires [1 more](#) action.
- ec2:AllocateHosts requires [1 more](#) action.

IAM > Policies > 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

VisualJSONActions

```
1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Sid": "BharviEC2",
6       "Effect": "Allow",
7       "Action": "ec2:*",
8       "Resource": "*"
9     }
10  ]
11 }
```

+ Add new statement

JSONLn 8, Col 17

Edit statement

BharviEC2

Remove

Add actions

Choose a service

Filter services

Included

EC2

Available

AMP

API Gateway

API Gateway V2

ASC

Access Analyzer

Account

Add a resource

Add

Add a condition (optional)

Add

6037 of 6144 characters remaining

IAM > Policies > Create policy

Step 1

Specify permissions

Step 2

Review and create

Review and create

info

Review the permissions, specify details, and tags.

Policy details

Policy name

Enter a meaningful name to identify this policy.

EC2policy

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

Description - optional

Add a short explanation for this policy.

Policy of user EC2

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

Permissions defined in this policy

info

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

Edit

Search

Allow (1 of 420 services)

Show remaining 419 services

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

Add tags - optional

info

Policy EC2policy created.

View policy

IAM > Policies

Policies (1224)

info

A policy is an object in AWS that defines permissions.

Filter by Type

Search

All types

1234567...62

Policy name	Type	Used as	Description
AccessAnalyzerServiceRolePolicy	AWS managed	None	-
AdministratorAccess	AWS managed - job function	None	Provides full access to AWS services an...
AdministratorAccess-Amplify	AWS managed	None	Grants account administrative permis...
AdministratorAccess-AWSElasticBeanstalk	AWS managed	None	Grants account administrative permis...
AlexaForBusinessDeviceSetup	AWS managed	None	Provide device setup access to AlexaFo...
AlexaForBusinessFullAccess	AWS managed	None	Grants full access to AlexaForBusiness ...
AlexaForBusinessGatewayExecution	AWS managed	None	Provide gateway execution access to A...
AlexaForBusinessLifsizeDelegatedAccess...	AWS managed	None	Provide access to Lifesize AVS devices
AlexaForBusinessNetworkProfileServicePo...	AWS managed	None	-
AlexaForBusinessPolyDelegatedAccessPolicy	AWS managed	None	Provide access to Poly AVS devices
AlexaForBusinessReadOnlyAccess	AWS managed	None	Provide read only access to AlexaForB...
AmazonAPIGatewayAdministrator	AWS managed	None	Provides full access to create/edit/dele...
AmazonAPIGatewayInvokeFullAccess	AWS managed	None	Provides full access to invoke APIs in A...
AmazonAPIGatewayPushToCloudWatchLogs	AWS managed	None	Allows API Gateway to push logs to us...

