Task 1 - EC2 for specific region

1. Create policy for the given condition. (STEPS)

aws | Search [Option+S] | Global ▼ | Account ID: 7223-1319-1117 ▼ Kalpesh Pachpute

IAM | EC2

IAM > Policies > Create policy

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.

🔍 Filter Actions

Effect
⦿ Allow ◯ Deny

Manual actions | **Add actions**
☑ All EC2 actions (ec2:*)

Access level   **Expand all** | **Collapse all**
▶ List (**Selected 194**/194)
▶ Read (**Selected 44**/44)
▶ Write (**Selected 448**/448)
▶ Permissions management (**Selected 16**/16)
▶ Tagging (**Selected 2**/2)

⚠ **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.
- ec2:AssociateIamInstanceProfile requires **1 more** action.
- ec2:AssociateIpamResourceDiscovery requires **1 more** action.
- ec2:AuthorizeSecurityGroupEgress requires **1 more** action.
- ec2:AuthorizeSecurityGroupIngress requires **1 more** action.

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IAM | EC2

IAM > Policies > Create policy

- ec2:DescribeLaunchTemplateVersions requires **1 more** action.

▼ **Resources**

Specify resource ARNs for these actions.
⦿ All
◯ Specific

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

▼ **Request conditions** – *optional*

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

☐ User is MFA Authenticated
Filters access if MFA was used to validate the temporary security credentials that made the request

☐ Requested from IP
Filters access by the requester's IP address

➕ **Add another condition**

➕ **Add more permissions**

⊘ Security: 0   ⊗ Errors: 0   ⚠ Warnings: 0   💡 Suggestions: 0

Cancel   **Next**

aws

Search   [Option+S]

Global ▼   Account ID: 7223-1319-1117 ▼
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IAM   EC2

IAM > Policies > Create policy

- ec2:DescribeLaunchTemplateVersions requires 1 more action.

region ✕

Global condition keys

aws:Requested**Region**

Service level condition keys

ec2:**Region**

ec2:vpceMulti**Region**

ec2:vpceService**Region**

ec2:vpceSupported**Region**

✕

Select condition key ▲

Filters access by the requester's IP address

Cancel   **Add condition**

+ Add another condition

+ Add more permissions

ⓘ Security: 0   ⊗ Errors: 0   ⚠ Warnings: 0   ♡ Suggestions: 0

Cancel   Next

---

aws

Search   [Option+S]

Global ▼   Account ID: 7223-1319-1117 ▼
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IAM   EC2

IAM > Policies > Create policy

- ec2:ReplaceIamInstanceProfileAssociation requires 1 more action.
- ec2:RequestSpotInstances requires 1 more action.

Add request condition ✕

Condition key

aws:RequestedRegion ▼

Qualifier

Default ▼

Operator

StringEquals ▼

☐ If exists

Value

ap-south-1   🗑

us-east-2   🗑

+ Add

Cancel   **Add condition**

ⓘ Security: 0   ⊗ Errors: 0   ⚠ Warnings: 0   ♡ Suggestions: 0

Cancel   Next

aws   Search [Option+S]   Global ▾   Account ID: 7223-1319-1117 ▾   Kalpesh Pachpute

IAM   EC2

IAM > Policies > Create policy

⟳ **Creating policy EC2-Only-for-mumbai-ohio.**

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.

EC2-Only-for-mumbai-ohio

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

Description - *optional*
Add a short explanation for this policy.

EC2 will be available in mumbai and ohio region only

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

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 (1 of 447 services)   ⬤ Show remaining 446 services

Service ▲	Access level ▽	Resource	Request condition

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IAM   EC2

IAM > Policies

Identity and Access Management (IAM)

🔍 Search IAM

Dashboard

Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Root access management New

Access reports
Access Analyzer
   Resource analysis New
   Unused access
   Analyzer settings
Credential report
Organization activity
Service control policies

✓ Policy EC2-Only-for-mumbai-ohio created.   [View policy] ✕

Policies (1378) Info   ⟳   [Actions ▾]   [Delete]   [Create policy]

A policy is an object in AWS that defines permissions.

🔍 Search   **Filter by Type** [Customer managed ▾]   1 match   ‹ 1 › ⚙

	Policy name ▲	Type ▽	Used as ▽	Description
○	⊞ EC2-Only-for-mumbai-ohio	Customer managed	None	EC2 will be available in mumbai and o…

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Identity and Access Management (IAM)

Search IAM

Dashboard

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- Organization activity
- Service control policies
- Resource control policies New

Users (6) Info

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

Delete | Create user

Search

< 1 >

	User name ▲	Path ▽	Groups ▽	Last activity ▽	MFA ▽	Password age ▽	Console last sign-in
☐	donna-paulsen	/	1	-	-	✓ Yesterday	-
☐	harvey-specter	/	1	-	-	✓ Yesterday	-
☐	jessica-pearson	/	1	-	-	✓ Yesterday	-
☐	louis-litt	/	1	-	-	✓ Yesterday	-
☐	mike-ross	/	1	-	-	✓ Yesterday	-
☐	rachel-zane	/	1	✓ 23 hours ago	-	✓ Yesterday	August 13, 2025, 22

Identity and Access Management (IAM)

Search IAM

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Access reports
- Access Analyzer
  - Resource analysis New
  - Unused access
  - Analyzer settings
- Credential report
- Organization activity
- Service control policies

Summary

ARN
⧉ arn:aws:iam::722313191117:user/mike-ross

Created
August 13, 2025, 19:31 (UTC+05:30)

Console access
⚠ Enabled without MFA

Last console sign-in
ⓘ Never

Access key 1
Create access key

Permissions | Groups (1) | Tags | Security credentials | Last Accessed

Permissions policies (1)

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

Remove | Add permissions ▲

Add permissions
Create inline policy

Search

Filter by Type
All types ▼

< 1 >

	Policy name ⬈ ▲	Type ▽	Attached via ⬈
☐	⊞ 🏛 AmazonS3FullAccess	AWS managed	Directly

▶ **Permissions boundary** (not set)

▼ **Generate policy based on CloudTrail events**

aws   IAM   EC2

Search [Option+S]   Global   Account ID: 7223-1319-1117 ▾
Kalpesh Pachpute

IAM > Users > mike-ross > 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 (1/1377)

[Search]   Filter by Type [Customer managed ▾]   1 match   ‹ 1 › ⚙

☑	Policy name ⧉ ▲	Type ▽	Attached entities ▽
☑	⊞ EC2-Only-for-mumbai-ohio	Customer managed	0

Cancel   **Next**

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aws   Search [Option+S]   Europe (Stockholm) ▾   Account ID: 7223-1319-1117 ▾
mike-ross

EC2

- **Dashboard**
- EC2 Global View ⧉
- Events

Instances
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- Capacity Reservations

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- AMIs
- AMI Catalog

Elastic Block Store
- Volumes
- Snapshots
- Lifecycle Manager

Network & Security
- Security Groups
- Elastic IPs

Resources

EC2 Global View ⧉ ⚙ ↻

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

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

Launch instance

To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

Launch instance ▾

Migrate a server ⧉

Note: Your instances will launch in the Europe (Stockholm) Region

Instance alarms

View in CloudWatch ⧉

⊗ User: arn:aws:
iam::722313191

Service health

AWS Health Dashboard ⧉ ↻

⊗ **An error occurred**
An error occurred retrieving service health information

🔷 Diagnose with Amazon Q

Zones

Zone name	Zone ID

An error occurred
An error occurred retrieving service health

EC2 Free Tier Info

Offers for all AWS Regions.

0 EC2 free tier offers in use

End of month forecast
⊗ User: arn:aws:iam::722313191117:user/mike-ross is not authorized to perform: freetier:GetFreeTierUsage on resource: arn:aws:freetier:us-east-1:7223 13191117:/GetFreeTierUsage because no identity-based policy allows the freetier:GetFreeTierUsage action

Exceeds free tier
⊗ User: arn:aws:iam::722313191117:user/mike-ross is not authorized to perform: freetier:GetFreeTierUsage on resource: arn:aws:freetier:us-east-1:7223 13191117:/GetFreeTierUsage because no identity-based policy allows the freetier:GetFreeTierUsage action

View Global EC2 resources

View all AWS Free Tier offers ⧉

Account attributes ↻

⊗ **An error occurred**
An error occurred checking for a default VPC

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aws | Search [Option+S] | Europe (Stockholm) ▼ | Account ID: 7223-1319-1117 ▼
mike-ross

EC2

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Instance alarms

View in CloudWatch ⎘

⊗ User: arn:aws:
iam::722313191

Service health

AWS Health Dashboard ⎘ ↻

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🔍 Diagnose with Amazon Q

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Zone name	Zone ID

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Exceeds free tier

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aws | Search [Option+S] | United States (Ohio) ▼ | Account ID: 7223-1319-1117 ▼
mike-ross

EC2

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Compute

Amazon Elastic Compute Cloud (EC2)
Create, manage, and monitor virtual servers in the cloud.

Amazon Elastic Compute Cloud (Amazon EC2) offers the broadest and deepest compute platform, with over 600 instance types and a choice of the latest processors, storage, networking, operating systems, and purchase models to help you best match the needs of your workload.

Launch a virtual server

Launch instance

View dashboard

Get started walkthroughs

Get started tutorial ⎘

Benefits and features

EC2 offers ultimate scalability and control

Fully resizable compute capacity to support virtually any workload. This service is best if you want:

- Highest level of control of the entire technology stack, allowing full integration with all AWS services
- Widest variety of server size options
- Widest availability of operating systems to choose from including Linux, Windows, and macOS
- Global scalability

Additional actions

View running instances

Migrate a server ⎘

Pricing (US)

EC2 pricing options ⎘

Use the AWS pricing calculator ⎘

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