

In IAM, Create a User Group “Developer” with EC2 and s3 Access.

The screenshot shows the AWS IAM console interface. On the left is a navigation sidebar with 'Identity and Access Management (IAM)' selected. The main content area is titled 'Developers' and shows the 'Permissions' tab. The 'Summary' section displays the user group name 'Developers', creation time 'January 28, 2025, 10:50 (UTC-08:00)', and ARN 'arn:aws:iam::503561445068:group/Developers'. Below this, the 'Permissions policies (2)' section shows two attached policies: 'AmazonEC2FullAccess' and 'AmazonS3FullAccess', both of type 'AWS managed'.

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
- External access
- Unused access
- Access settings

Developers Info

Delete

Summary Edit

User group name: Developers

Creation time: January 28, 2025, 10:50 (UTC-08:00)

ARN: arn:aws:iam::503561445068:group/Developers

Users (1) | **Permissions** | Access Advisor

Permissions policies (2) Info Simulate Remove Add permissions

You can attach up to 10 managed policies.

Filter by Type: All types

<input type="checkbox"/>	Policy name	Type	Attached entities
<input type="checkbox"/>	AmazonEC2FullAccess	AWS managed	1
<input type="checkbox"/>	AmazonS3FullAccess	AWS managed	1

Create a User “Test” and assign it console access

The screenshot shows the AWS IAM console interface for a user named 'Test'. The left sidebar is the same as the previous screenshot. The main content area is titled 'Test' and shows the 'Security credentials' tab. The 'Summary' section displays the user's ARN 'arn:aws:iam::503561445068:user/Test', creation time 'January 28, 2025, 10:52 (UTC-08:00)', and console access status 'Enabled without MFA'. The 'Console sign-in' section shows the sign-in link 'https://503561445068.signin.aws.amazon.com/console', console password 'Updated 20 minutes ago (2025-01-28 10:53 PST)', and last console sign-in '14 minutes ago (2025-01-28 10:58 PST)'.

Identity and Access Management (IAM)

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Test Info

Delete

Summary

ARN: arn:aws:iam::503561445068:user/Test

Console access: Enabled without MFA

Access key 1: Create access key

Created: January 28, 2025, 10:52 (UTC-08:00)

Last console sign-in: Today

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

Console sign-in Manage console access

Console sign-in link: https://503561445068.signin.aws.amazon.com/console

Console password: Updated 20 minutes ago (2025-01-28 10:53 PST)

Last console sign-in: 14 minutes ago (2025-01-28 10:58 PST)

To user “Test” allocate group “Developers” that we just created:

Identity and Access Management (IAM) > Users > Test

Search IAM

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- Root access management **New**

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Test Info

Summary

ARN arn:aws:iam::503561445068:user/Test	Console access Enabled without MFA	Access key 1 Create access key
Created January 28, 2025, 10:52 (UTC-08:00)	Last console sign-in Today	

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

User groups membership

A user group is a collection of IAM users. Use groups to specify permissions for a collection of users. A user can be a member of up to 10 groups at a time.

<input type="checkbox"/>	Group name	Attached policies
<input type="checkbox"/>	Developers	AmazonEC2FullAccess and AmazonS3FullAccess

[Remove](#) [Add user to groups](#)

Login to the created user “Test” in console to verify if correct access have been granted or not:

https://eu-north-1.signin.aws.amazon.com/oauth?client_id=arn%3Aaws%3Asignin%3A%3A%3Aconsole%2Fcanvas&code_...

New sign in English

You are currently using the improved sign in UI experience.
The [improved sign in](#) experience will launch soon. During this time, you can still change back to legacy sign in using the dropdown below.

aws

IAM user sign in

Account ID (12 digits) or account alias

IAM username

Password

☐ Show Password [Having trouble?](#)

Amazon Lightsail

Lightsail is the easiest way to get started on AWS

[Learn more »](#)

S3 Access:

Amazon S3 > Buckets > Create bucket

Info

Buckets are containers for data stored in S3.

General configuration

AWS Region

US East (N. Virginia) us-east-1

Bucket type

Info

☒ General purpose

Recommended for most use cases and access patterns. General purpose buckets are the original S3 bucket type. They allow a mix of storage classes that redundantly store objects across multiple Availability Zones.

☐ Directory

Recommended for low-latency use cases. These buckets use only the S3 Express One Zone storage class, which provides faster processing of data within a single Availability Zone.

Bucket name

Info

myawsbucket

Bucket name must be unique within the global namespace and follow the bucket naming rules. [See rules for bucket naming](#)

Copy settings from existing bucket - optional

Only the bucket settings in the following configuration are copied.

Choose bucket

Format: s3://bucket/prefix

EC2 Access:

aws

Search

[Alt+S]

United States (N. Virginia)

Test @ 5035-6144-5068

EC2 > Instances > Launch an instance

Info

Launch an instance

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags

Info

Name

e.g. My Web Server

Add additional tags

▼ Application and OS Images (Amazon Machine Image)

Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Search our full catalog including 1000s of application and OS images

Quick Start

Amazon Linux

macOS

Ubuntu

Windows

Red Hat

SUSE

Browse more AMIs

▼ Summary

Number of instances

Info

1

Software Image (AMI)

-

Virtual server type (instance type)

t2.micro

Firewall (security group)

-

Storage (volumes)

-

Free tier: In your first year includes 750 hours of t2.micro

×

Cancel

Launch instance

Preview code

User doesn't have access to other applications in AWS such as Service Health or Global EC2 instances:

Capacity Reservations	0	Dedicated Hosts	0
Elastic IPs	0	Instances	2
Key pairs	1	Load balancers	0
Placement groups	0	Security groups	2
Snapshots	0	Volumes	2

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 US East (N. Virginia) Region

Service health

AWS Health Dashboard

An error occurred

An error occurred retrieving service health information

Diagnose with Amazon Q

End of month forecast

User: arn:aws:iam::503561445068:u ser/Test is not authorized to perform: f reetier:GetFreeTierUsage on resource: a rn:aws:freetier:us-east-1:50356144506 8:/GetFreeTierUsage because no identi ty-based policy allows the freetier:GetF reeTierUsage action

Exceeds free tier

User: arn:aws:iam::503561445068:u ser/Test is not authorized to perform: f reetier:GetFreeTierUsage on resource: a rn:aws:freetier:us-east-1:50356144506 8:/GetFreeTierUsage because no identi ty-based policy allows the freetier:GetF reeTierUsage action

View Global EC2 resources

View all AWS Free Tier offers

Account attributes

A terraform code has been also written for same:

IAM.tf

C: > Users > mehak_pc > OneDrive > Desktop > IAM.tf

```
1 provider "aws" {
2   region = "us-east-1" # Specify your AWS region
3 }
4
5 # Create an IAM group
6 resource "aws_iam_group" "example_group" {
7   name = "example_group"
8 }
9
10 # Attach a policy to the group
11 resource "aws_iam_group_policy" "example_group_policy" {
12   group = aws_iam_group.example_group.name
13
14   policy = jsonencode({
15     Version = "2012-10-17"
16     Statement = [
17       {
18         Effect = "Allow"
19         Action = ["s3:ListBucket", "s3:GetObject"]
20       }
21     ]
22   })
23 }
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

powerShell

```
aws_iam_access_key.example_access_key: Creating...
aws_iam_group.example_group: Creation complete after 1s [id=example_group]
aws_iam_user_group_membership.example_user_group_membership: Creating...
aws_iam_group_policy.example_group_policy: Creating...
aws_iam_access_key.example_access_key: Creation complete after 0s [id=AKIAXKKPUZ33GDUQPQBNS]
aws_iam_user_group_membership.example_user_group_membership: Creation complete after 1s [id=terraform-202501291845453981000000002]
aws_iam_group_policy.example_group_policy: Creation complete after 1s [id=example_group:terraform-202501291845451722000000001]

Apply complete! Resources: 5 added, 0 changed, 0 destroyed.
```