

Screenshot of the AWS IAM Dashboard (us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/home). The dashboard provides an overview of security recommendations, IAM resources, and what's new.

**Security recommendations:**

- Root user has MFA
- Root user has no active access keys

**IAM resources:**

User groups	Users	Roles	Policies	Identity providers
0	0	2	0	0

**What's new:**

- AWS IAM announces support for encrypted SAML assertions. 3 months ago
- AWS CodeBuild announces support for project ARN and build ARN IAM condition keys. 3 months ago
- IAM Roles Anywhere credential helper now supports TPM 2.0. 5 months ago

**AWS Account:**

- Account ID: 929954248024
- Account Alias: Create
- Sign-in URL for IAM users in this account: https://929954248024.sigin.aws.amazon.com/console

**Quick Links:**

- My security credentials

**Tools:**

- Policy simulator

Bottom navigation bar: CloudShell, Feedback, © 2025, Amazon Web Services, Inc. or its affiliates., Privacy, Terms, Cookie preferences, ENG IN 10:12 05-05-2025

Screenshot of the AWS IAM Users page (us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/users). The page shows a list of users with zero entries.

**Users (0):**

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

User name	Path	Group	Last activity	MFA	Password age	Console last sign-in	Acc
No resources to display							

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The screenshot shows the 'Specify user details' step of the AWS IAM 'Create user' wizard. The left sidebar shows steps: Step 1 (selected), Step 2, Step 3, Set permissions, Review and create. The main area has a 'User details' section with a 'User name' input field containing 'Abhinav-IAM-50Z'. Below it is a note about character restrictions. A checkbox for 'Provide user access to the AWS Management Console - optional' is checked. A callout box says: '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.' Buttons at the bottom are 'Cancel' and 'Next'.

This screenshot is identical to the one above, but the 'User type' section is expanded. It shows two options: 'Specify a user in Identity Center - Recommended' (unchecked) and 'I want to create an IAM user' (checked). A note below the second option says: '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.' The rest of the interface is the same, including the sidebar steps and the note about generating programmatic access.

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

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](#)

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WhatsApp aws - Google Search Create user | IAM | Global

Search [Alt+S]

IAM > Users > Create user

**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.

**Permissions policies (1/1346)**  
Choose one or more policies to attach to your new user.

Filter by Type  
EC2fu All types 1 match  
Policy name ▾ Type Attached entities  
AmazonEC2FullAccess AWS managed 0

**Set permissions boundary - optional**

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The screenshot shows the 'Review and create' step of the 'Create user' wizard. On the left, a vertical navigation bar lists steps: Step 1 (Specify user details), Step 2 (Set permissions), Step 3 (Review and create) (which is selected and highlighted in blue), Step 4 (Retrieve password). The main content area displays 'User details' and 'Permissions summary'. Under 'User details', the 'User name' is set to 'Abhinav-IAM-50Z'. Under 'Permissions summary', two policies are listed: 'AmazonEC2FullAccess' (AWS managed, Permissions policy) and 'IAMUserChangePassword' (AWS managed, Permissions policy). A 'Tags - optional' section is present but empty.

The screenshot shows the 'Retrieve password' step of the 'Create user' wizard. On the left, the same vertical navigation bar is visible. The main content area displays 'Console sign-in details'. It includes the 'Console sign-in URL' (https://929954248024.signin.aws.amazon.com/console), 'User name' (Abhinav-IAM-50Z), and a 'Console password' field (represented by a masked password). A 'Email sign-in instructions' button is also present. A green success message at the top states 'User created successfully'.



Screenshot of the AWS IAM Roles page (us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/roles).

The left sidebar shows the navigation path: IAM > Roles.

The main content area displays the "Roles" info section, which includes a search bar and a table header with columns: Role name, Trusted entities, and Last activity.

Below the table, there are two sections:

- Access AWS from your non AWS workloads**: Describes authenticating non-AWS workloads using the same authentication and authorization strategy as AWS.
- X.509 Standard**: Describes using existing PKI infrastructure or AWS Certificate Manager Private Certificate Authority to authenticate identities.

On the right, there is a "Temporary credentials" section describing their use for enhanced security.

At the bottom, there are links for CloudShell and Feedback, and standard browser controls.

Screenshot of the "Create role" wizard (Step 1: Select trusted entity) (us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/roles/create).

The left sidebar shows the navigation path: IAM > Roles > Create role.

The main content area shows the "Select trusted entity" step with the following details:

- Trusted entity type**:
  - AWS service: Allows AWS services like EC2, Lambda, or others to perform actions in this account.
  - AWS account: Allows 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.
- Use case**: Allows an AWS service like EC2, Lambda, or others to perform actions in this account.
- Service or use case**: A dropdown menu with the placeholder "Choose a service or use case".

At the bottom right, there are "Cancel" and "Next" buttons.

Standard browser footer with copyright information and navigation icons.

WhatsApp aws - Google Search Create role | IAM | Global

us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/roles/create

Search [Alt+S]

IAM > Roles > Create role

**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.

**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.

Cancel Next

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WhatsApp aws - Google Search Create role | IAM | Global

us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/roles/create?trustedEntityType=AWS\_SERVICE&selectedService=EC2&selectedUseCase=EC2

Search [Alt+S]

IAM > Roles > Create role

**Add permissions** Info

Step 1 Select trusted entity

Step 2 Add permissions

Step 3 Name, review, and create

**Permissions policies (1/1045) Info**

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

Filter by Type

s3fu All types 1 match

Policy name Type Description

**AmazonS3FullAccess** AWS managed Provides full access to all buckets via the ...

▶ Set permissions boundary - optional

Cancel Previous Next

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Screenshot of the AWS IAM 'Create role' wizard, Step 1: Name, review, and create.

**Role details**

**Role name:** ec2-s3-Communication

**Description:** Allows EC2 instances to call AWS services on your behalf.

**Step 1: Select trusted entities**

**Trust policy:**

```
1- [ {  
2-     "Version": "2012-10-17",  
3-     "Statement": [  
4-         {  
5-             "Effect": "Allow",  
6-             "Action": [  
7-                 "sts:AssumeRole"  
8-             ],  
9-             "Principal": {  
10-                 "Service": [  
11-                     "ec2.amazonaws.com"  
12-                 ]  
13-             }  
14-         }  
15-     ]  
16- }]
```

**Step 2: Add permissions**

**Permissions policy summary:**

Policy name	Type	Attached as
AmazonS3FullAccess	AWS managed	Permissions policy

**Step 3: Add tags**

The screenshot shows the 'Create role' wizard in the AWS IAM console. The user is on Step 2: Add permissions. A JSON policy document is displayed in a code editor:

```
12     }
13   }
14 }
15 ]
16 ]
```

Below the code editor, the heading 'Step 2: Add permissions' is followed by 'Permissions policy summary'. A table lists one policy:

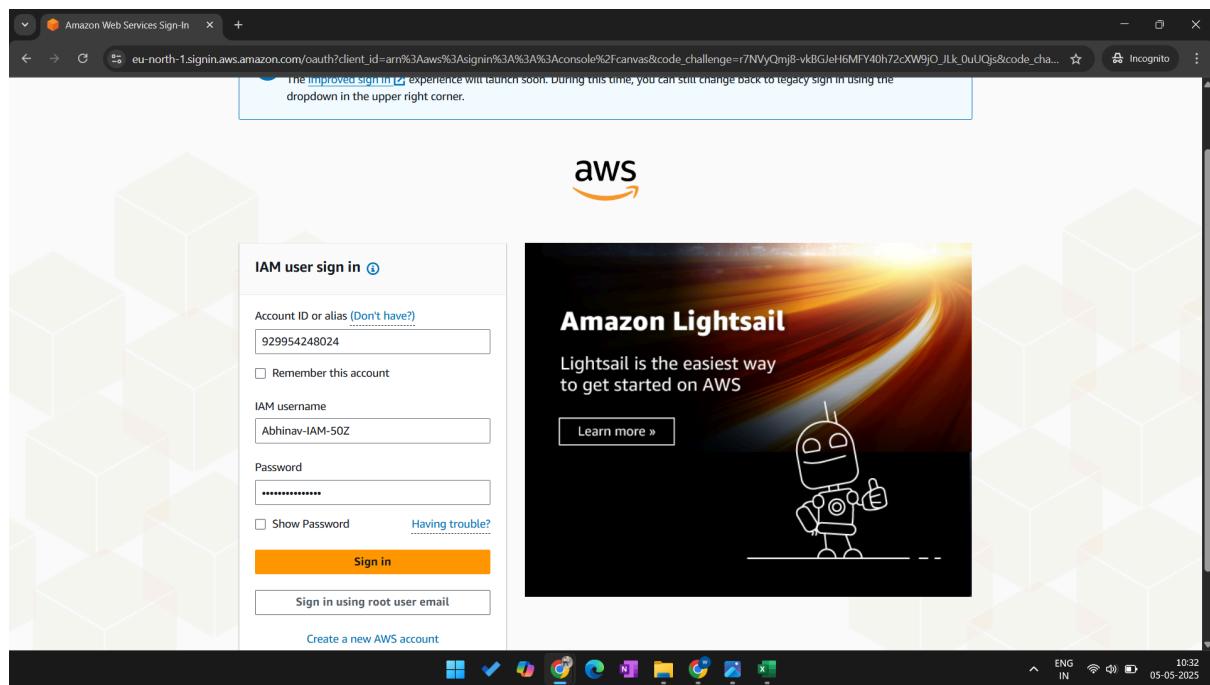
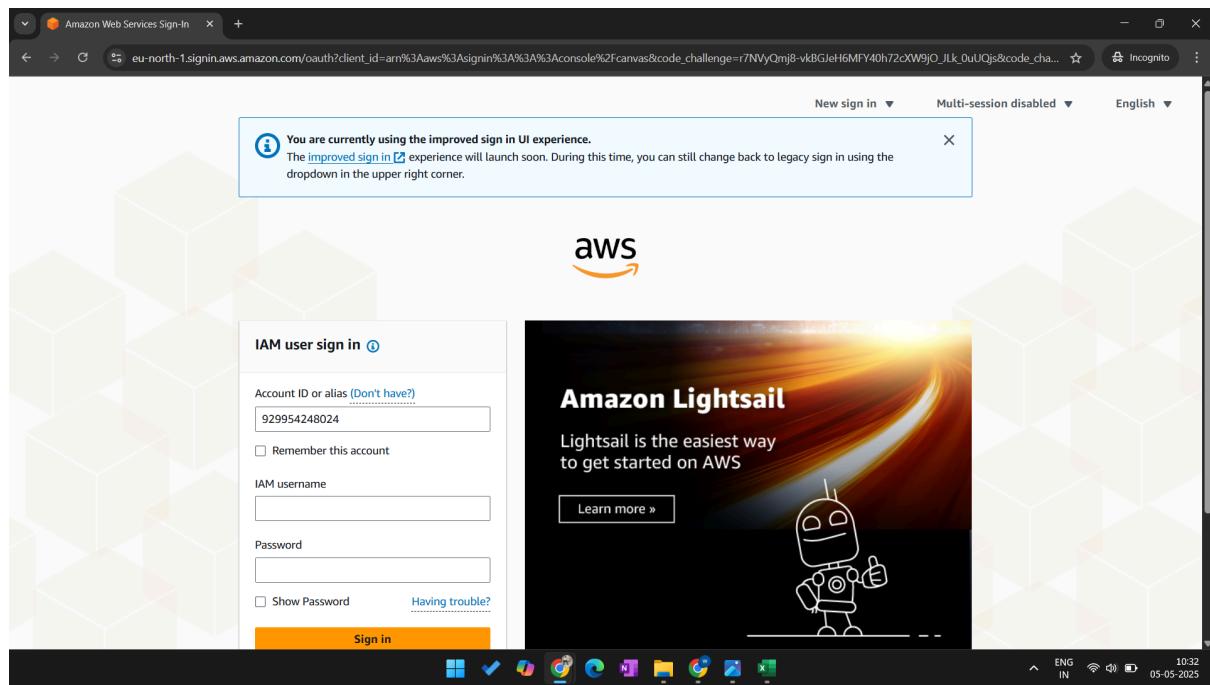
Policy name	Type	Attached as
<a href="#">AmazonS3FullAccess</a>	AWS managed	Permissions policy

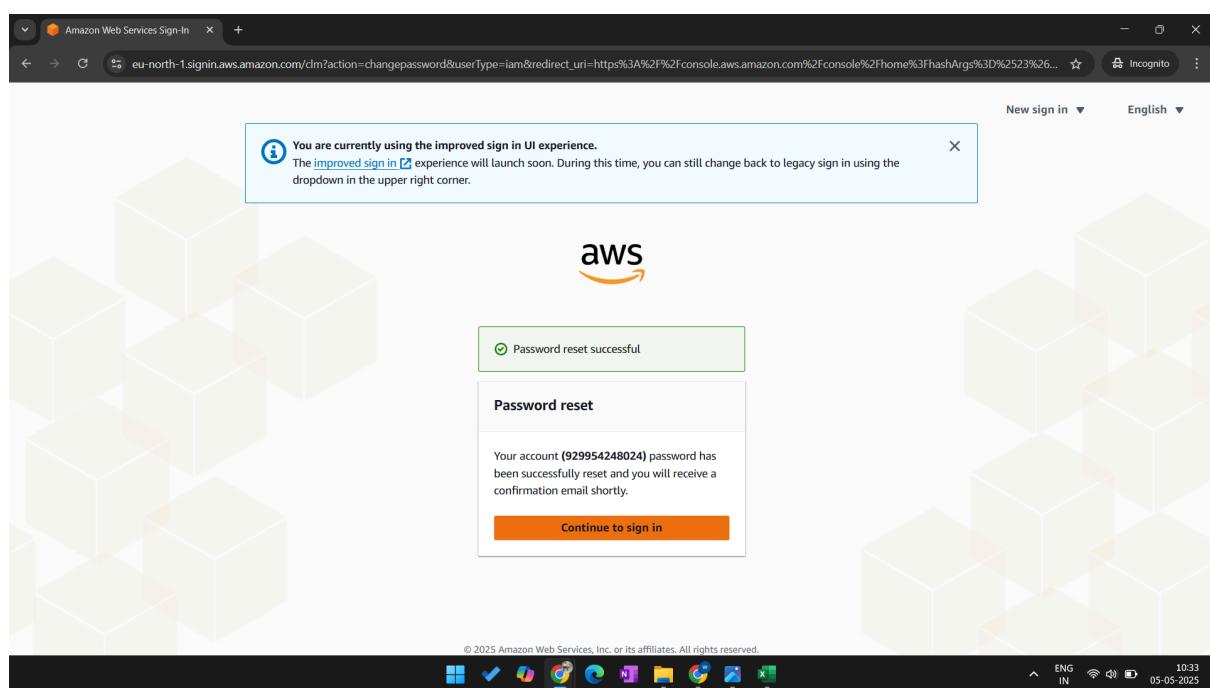
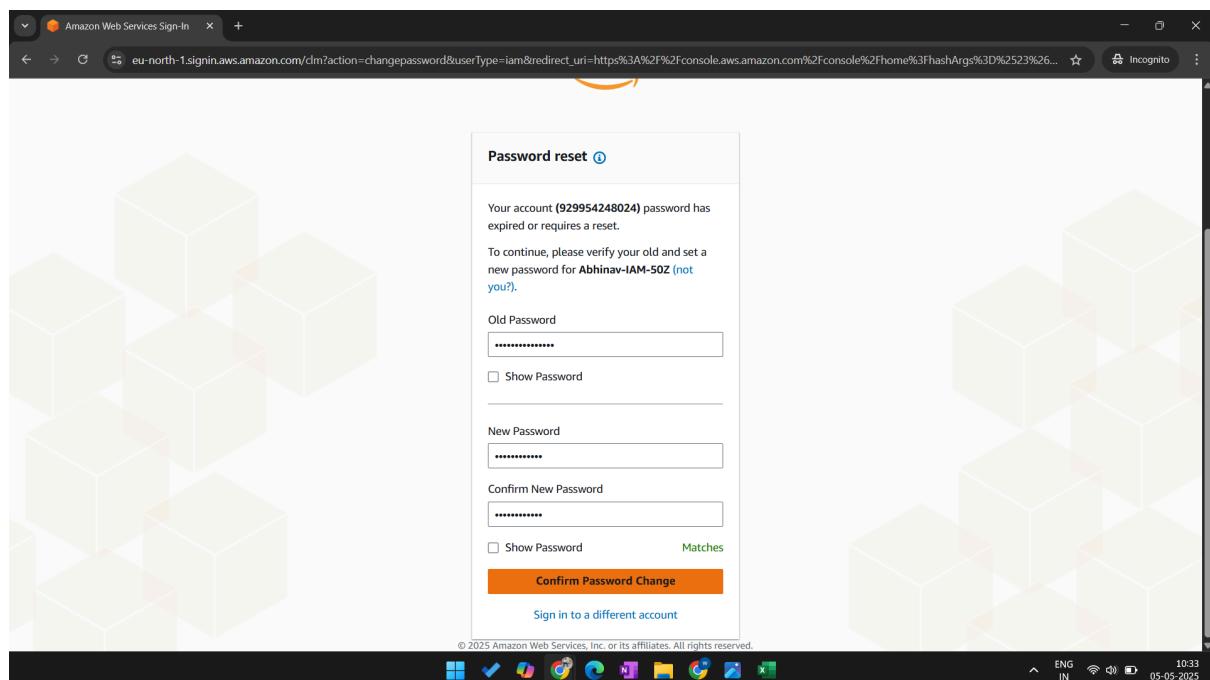
At the bottom right of the wizard are 'Cancel', 'Previous', and 'Create role' buttons.

The screenshot shows an Excel spreadsheet titled 'Abhinav-IAM-50Z\_credentials.csv'. The spreadsheet contains two rows of data:

User name	Password	Console sign-in URL
Abhinav-IAM-HareKrishna	console	

The status bar at the bottom of the screen indicates the file was created on 05-05-2025 at 10:29 AM.





eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#LaunchInstances:

It seems like you may be new to launching instances in EC2. Take a walkthrough to learn about EC2, how to launch instances and about best practices

Name and tags

Name: Instance-From-IAM-User-Abhinav

Software Image (AMI)

Amazon Linux 2023 AMI 2023.7.2...read more

ami-0dd574ef87b79ac6c

Virtual server type (instance type)

t3.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2 micro isn't available) when used with free tier

Quick Start

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This screenshot shows the 'Launch an instance' wizard on the AWS EC2 console. It includes fields for 'Name and tags', a search bar for 'Application and OS Images (Amazon Machine Image)', a 'Quick Start' section with various OS options, and a summary panel on the right detailing the instance configuration.

eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#Instances:

EC2

Instances (1) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4
Instance-From...	i-00bb9c0743f290d9f	Running	t3.micro	Initializing		eu-north-1c	ec2-16-16-7

Select an instance

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This screenshot shows the 'Instances' page in the AWS EC2 console. It displays a table of one instance, 'Instance-From...', which is currently running. The instance has an ID of i-00bb9c0743f290d9f, is of type t3.micro, and is located in availability zone eu-north-1c. The public IP is ec2-16-16-7. The status is shown as 'Initializing'.

The screenshot shows the AWS CloudShell interface with several tabs open. The main tab displays the EC2 Instances page for the eu-north-1 region. A single instance, "Instance-From-IAM-User-Abhinav" (ID: i-00bb9c0743f290d9f), is listed as "Running". The Actions menu is open, showing options like Connect, View details, Manage instance state, Instance settings, Networking, Security, Image and templates, and Modify IAM role.

**Instances (1) Info**

Last updated less than a minute ago

Find Instance by attribute or tag (case-sensitive)

All states

Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone | Public IPv4 DNS

Instance-From-IAM-User-Abhinav | i-00bb9c0743f290d9f | Running | t3.micro | Initializing | View alarms + | eu-north-1c | ec2-16-16-79-7.eu-north-1c | 1

Select an instance

**i-00bb9c0743f290d9f (Instance-From-IAM-User-Abhinav)**

Details | Status and alarms | Monitoring | Security | Networking | Storage | Tags

**Instance summary**

Instance ID: i-00bb9c0743f290d9f  
IPv6 address: -  
Hostname type:

Public IPv4 address: 16.16.79.7 | open address  
Instance state: Running  
Private IP DNS name (IPv4 only):

Private IPv4 addresses: 172.31.15.222  
Public IPv4 DNS: ec2-16-16-79-7.eu-north-1.compute.amazonaws.com | open address

CloudShell Feedback

The screenshot shows the 'Modify IAM role' page in the AWS IAM console. The instance ID is i-00bb9c0743f290d9f. A dropdown menu shows 'ec2-s3-Communication'. Buttons for 'Cancel' and 'Update IAM role' are visible.

The screenshot shows the 'Instances' page in the AWS EC2 console. It lists one instance, 'Instance-From-IAM-User-Abhinav', which is successfully attached to the 'ec2-s3-Communication' role. The instance is running and assigned to the 'eu-north-1c' availability zone with a public IPv4 of 16.16.79.7.

The screenshot shows the 'Details' tab for the instance i-00bb9c0743f290d9f. Key details include:

- Public IPv4 address:** 16.16.79.7
- Private IP4 addresses:** 172.31.15.222
- Public IPv4 DNS:** ec2-16-16-79-7.eu-north-1.compute.amazonaws.com
- Instance state:** Running
- Instance type:** t3.micro
- Status check:** Initializing
- Availability Zone:** eu-north-1c
- Public IPv4 DNS:** ec2-16-16-79-7.eu-north-1c.compute.amazonaws.com

Screenshot of the AWS EC2 Connect to instance page:

The URL is [eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#ConnectToInstance:instanceId=i-00bb9c0743f290d9f](https://eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#ConnectToInstance:instanceId=i-00bb9c0743f290d9f)

Content:

**Connect to instance** info  
Connect to your instance i-00bb9c0743f290d9f (Instance-From-IAM-User-Abhinav) using any of these options

**EC2 Instance Connect** | **Session Manager** | **SSH client** | **EC2 serial console**

**Instance ID**  
[i-00bb9c0743f290d9f](#) (Instance-From-IAM-User-Abhinav)

1. Open an SSH client.  
2. Locate your private key file. The key used to launch this instance is IAM-User-Abhinav-50Z.pem  
3. Run this command, if necessary, to ensure your key is not publicly viewable.  
[chmod 400 "IAM-User-Abhinav-50Z.pem"](#)  
4. Connect to your instance using its Public DNS:  
[ec2-16-16-79-7.eu-north-1.compute.amazonaws.com](#)

Example:  
[ssh -i "IAM-User-Abhinav-50Z.pem" ec2-user@ec2-16-16-79-7.eu-north-1.compute.amazonaws.com](#)

**Note:** In most cases, the guessed username is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

[Cancel](#)

Screenshot of a Windows terminal window showing the SSH connection process:

Terminal title: [ec2-user@ip-172-31-15-222~](#)

Content:

```
Microsoft Windows [Version 10.0.26100.3775]
(c) Microsoft Corporation. All rights reserved.

C:\Users\ABHINAV CHANDRA MS\Downloads>ssh -i "IAM-User-Abhinav-50Z.pem" ec2-user@ec2-16-16-79-7.eu-north-1.compute.amazonaws.com
The authenticity of host 'ec2-16-16-79-7.eu-north-1.compute.amazonaws.com (16.16.79.7)' can't be established.
ED25519 key fingerprint is SHA256:2Kf1nK0+kh+VDq8gJFRHzmpvHuyTj4/eG8950F0pWg.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-16-16-79-7.eu-north-1.compute.amazonaws.com' (ED25519) to the list of known hosts.

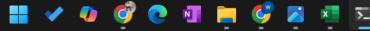
#_###_ Amazon Linux 2023
~~ \####\ https://aws.amazon.com/linux/amazon-linux-2023
~~ \##/
~~ \#/ 
~~ \#/_>
~~ .-: /_
~~ .-/ _/_
~~ .-/ _/_
~~ .-/ _/_
[ec2-user@ip-172-31-15-222 ~]$
```

```
ec2-user@ip-172-31-15-222:~ + - x
Microsoft Windows [Version 10.0.26100.3775]
(c) Microsoft Corporation. All rights reserved.

C:\Users\ABHINAV CHANDRA MS\Downloads>ssh -i "IAM-User-Abhinav-50Z.pem" ec2-user@ec2-16-16-79-7.eu-north-1.compute.amazonaws.com
The authenticity of host 'ec2-16-16-79-7.eu-north-1.compute.amazonaws.com (16.16.79.7)' can't be established.
ED25519 key fingerprint is SHA256:2kf1nt0+kh+VDd8gJFRHzmpvHuyTj4/eG8950F0pWg.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-16-16-79-7.eu-north-1.compute.amazonaws.com' (ED25519) to the list of known hosts.

      _#
     /_##_
    /##_\####\
   /## \####
  /##  \###
 /##  \#/ ___ https://aws.amazon.com/linux/amazon-linux-2023
 /##  V~' '-->
 /##   /
 /## .--. /-
 /## /_/
 /## /m/`[

[ec2-user@ip-172-31-15-222 ~]$ aws s3 ls
[ec2-user@ip-172-31-15-222 ~]$ aws --version
aws-cli/2.23.11 Python/3.9.21 Linux/6.1.134-150.224.amzn2023.x86_64 source/x86_64.amzn.2023
[ec2-user@ip-172-31-15-222 ~]$ aws s3 ls
[ec2-user@ip-172-31-15-222 ~]$ aws s3 mb s3://abhinav-test-bucket-2025
make_bucket: abhinav-test-bucket-2025
[ec2-user@ip-172-31-15-222 ~]$ aws s3 ls
2025-05-05 05:10:31 abhinav-test-bucket-2025
[ec2-user@ip-172-31-15-222 ~]$
```



ENG IN 10:40 05-05-2025