

## Step1 :- Launch an EC2 instance in Mumbai region

The screenshot shows the AWS Management Console for the Mumbai region. The breadcrumb navigation indicates the path: EC2 > Instances > Launch an instance. A green success message states: "Success Successfully initiated launch of instance (i-0fbf7f68f11a06607)". Below this, a "Launch log" link is available. The "Next Steps" section contains three cards: "Create billing and free tier usage alerts", "Connect to your instance", and "Connect an RDS database". The footer includes a feedback link, a language selection notice, and copyright information for Amazon Web Services India Private Limited.

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

aws Services Search [Alt+S] Mumbai Bhargav L N S N

EC2 > Instances > Launch an instance

**Success**  
Successfully initiated launch of instance (i-0fbf7f68f11a06607)  
▶ Launch log

**Next Steps**

**Create billing and free tier usage alerts**  
To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.  
Create billing alerts

**Connect to your instance**  
Once your instance is running, log into it from your local computer.  
Connect to instance  
Learn more

**Connect an RDS database**  
Configure the connection between an EC2 instance and a database to allow traffic flow between them.  
Connect an RDS database

Feedback Looking for language selection? Find it in the new Unified Settings © 2023, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

## Step2: - Launch an S3 bucket in same region

The screenshot shows the AWS Management Console for the Mumbai region, specifically the S3 Buckets page. The breadcrumb navigation indicates the path: Amazon S3 > Buckets. A blue banner at the top provides information on "How to optimize your costs on S3". The "Account snapshot" section includes a "View Storage Lens dashboard" link. The "Buckets (1)" section shows a table with one bucket, "iamexercisebucket", in the "Asia Pacific (Mumbai) ap-south-1" region. The bucket's access is set to "Bucket and objects not public". The footer includes a feedback link, a language selection notice, and copyright information for Amazon Web Services India Private Limited.

s3.console.aws.amazon.com/s3/buckets?region=ap-south-1

aws Services Search [Alt+S] Global Bhargav L N S N

Amazon S3

**How to optimize your costs on S3.** Learn more

Amazon S3 > Buckets

**Account snapshot**  
Storage lens provides visibility into storage usage and activity trends. Learn more  
View Storage Lens dashboard

**Buckets (1)** Info  
Buckets are containers for data stored in S3. Learn more  
Copy ARN Empty Delete Create bucket  
Find buckets by name

Name	AWS Region	Access	Creation date
iamexercisebucket	Asia Pacific (Mumbai) ap-south-1	Bucket and objects not public	January 2, 2023, 13:57:14

Feedback Looking for language selection? Find it in the new Unified Settings © 2023, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences 1:58 PM

### Step3: - Create an IAM User and add permissions to it.

The screenshot shows the AWS IAM console 'Add user' wizard at step 2, 'Set permissions'. The user name 'bhargav-1' is entered in the previous step. In this step, the user is prompted to select how they will access AWS. The 'Access key - Programmatic access' option is selected, which enables an access key ID and secret access key for the AWS API, CLI, SDK, and other development tools. The 'Password - AWS Management Console access' option is unselected, which would enable a password for sign-in to the AWS Management Console. Below the selection, there are buttons for 'Cancel' and 'Next: Permissions'. The bottom of the page shows the AWS footer with copyright information for 2023.

us-east-1.console.aws.amazon.com/iam/home#/users\$new?step=details

## Add user

1 2 3 4

### Set user details

You can add multiple users at once with the same access type and permissions. [Learn more](#)

User name\*

[Add another user](#)

### Select AWS access type

Select how these users will primarily access AWS. If you choose only programmatic access, it does NOT prevent users from accessing the console an assumed role. Access keys and autogenerated passwords are provided in the last step. [Learn more](#)

Select AWS credential type\* ☒ **Access key - Programmatic access**  
Enables an **access key ID** and **secret access key** for the AWS API, CLI, SDK, and other development tools.

☐ **Password - AWS Management Console access**  
Enables a **password** that allows users to sign-in to the AWS Management Console.

\* Required

[Cancel](#) [Next: Permissions](#)

[Feedback](#) Looking for language selection? Find it in the new [Unified Settings](#)

© 2023, Amazon Web Services India Private Limited or its affiliates. [Privacy](#) [Terms](#) [Cookie preferences](#)

---

us-east-1.console.aws.amazon.com/iam/home#/users\$new?step=permissions&accessKey&userNames=bhargav-1

## Add user

1 2 3 4

Permissions

### Set permissions

[Add user to group](#) [Copy permissions from existing user](#) [Attach existing policies directly](#)

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](#)

### Add user to group

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

Showing 1

Group	Attached policies
<input checked="" type="checkbox"/> admin	AdministratorAccess

[Cancel](#) [Previous](#) [Next: Tags](#)

[Feedback](#) Looking for language selection? Find it in the new [Unified Settings](#)

© 2023, Amazon Web Services India Private Limited or its affiliates. [Privacy](#) [Terms](#) [Cookie preferences](#)

us-east-1.console.aws.amazon.com/iam/home#/users\$new?step=tags&accessKey&userNames=bhargav-1&gro...

awsServicesSearch[Alt+S]

GlobalBhargav L N S N

Add user

1234

Add tags (optional)

IAM tags are key-value pairs you can add to your user. Tags can include user information, such as an email address, or can be descriptive, such as title. You can use the tags to organize, track, or control access for this user. [Learn more](#)

Key	Value (optional)	Resource
<input type="text" value="Add new key"/>	<input type="text"/>	

You can add 50 more tags.

CancelPreviousNext: Review

FeedbackLooking for language selection? Find it in the new [Unified Settings](#)PrivacyTermsCookie preferences

© 2023, Amazon Web Services India Private Limited or its affiliates.

us-east-1.console.aws.amazon.com/iam/home#/users\$new?step=review&accessKey&userNames=bhargav-1&g...

awsServicesSearch[Alt+S]

GlobalBhargav L N S N

Review

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

User details

User name	bhargav-1
AWS access type	Programmatic access - with an access key
Permissions boundary	Permissions boundary is not set

Permissions summary

The user shown above will be added to the following groups.

Type	Name
Group	<a href="#">admin</a>

Tags

CancelPreviousCreate user

FeedbackLooking for language selection? Find it in the new [Unified Settings](#)PrivacyTermsCookie preferences

© 2023, Amazon Web Services India Private Limited or its affiliates.

us-east-1.console.aws.amazon.com/iam/home#/users\$new?step=final&accessKey&userNames=bhargav-1&gro...

aws Services Search [Alt+S] Global Bhargav L N S N

✓ **Success**

You successfully created the users shown below. You can view and download user security credentials. You can also email users instructions for signing in to the AWS Management Console. This is the last time these credentials will be available to download. However you can create new credentials at any time.

Users with AWS Management Console access can sign-in at: <https://192095846711.signin.aws.amazon.com/console>

Download .csv

User	Access key ID	Secret access key
✓ bhargav-1	AKIASZOOOAE333RI5TN4	Wj5Zf4wkNYPL3EV/gwD8LFNaFW8zn2Wt8 <a href="#">Hide</a>

Close

Feedback Looking for language selection? Find it in the new Unified Settings Privacy Terms Cookie preferences

© 2023, Amazon Web Services India Private Limited or its affiliates.

## Step4: - Connect Using EC2 and using Access Key ID and Secret key

ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0fbf7f68f11a...

aws Services Search [Alt+S] Mumbai Bhargav L N S N

```

  ____  _
 / ___|| | | |
| |___| |_| |
 \___|_||_|_|_|

Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-37-10 ~]$ sudo su -
[root@ip-172-31-37-10 ~]# aws s3 ls
Unable to locate credentials. You can configure credentials by running "aws configure".
[root@ip-172-31-37-10 ~]# aws configure
AWS Access Key ID [None]: AKIASZOOOAE333RI5TN4
AWS Secret Access Key [None]: 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
Default region name [None]:
Default output format [None]:
[root@ip-172-31-37-10 ~]#

```

i-0fbf7f68f11a06607 (iamexercise)

PublicIPs: 52.66.198.254 PrivateIPs: 172.31.37.10

Feedback Looking for language selection? Find it in the new Unified Settings Privacy Terms Cookie preferences

© 2023, Amazon Web Services India Private Limited or its affiliates.

new\_user\_credenti....csv Show all

## Listing the buckets in region

The image shows two screenshots from the AWS Management Console. The top screenshot is a terminal window connected to an Amazon Linux 2 instance. It shows the user running `aws s3 ls` and then `aws configure` to set up AWS CLI credentials. The output of `aws s3 ls` shows a bucket named `iamexercisebucket` in the `ap-south-1` region. The bottom screenshot shows the IAM console for a user named `bhargav-1`. It displays the user's summary, including their ARN, path, and creation time. The permissions tab is selected, showing that the user has one policy applied: `AdministratorAccess`, which is an AWS managed policy from the `admin` group.

**Terminal Output:**

```
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-37-10 ~]$ sudo su -
[root@ip-172-31-37-10 ~]# aws s3 ls
Unable to locate credentials. You can configure credentials by running "aws configure".
[root@ip-172-31-37-10 ~]# aws configure
AWS Access Key ID [None]: AKIASZOO0AE333RI5TN4
AWS Secret Access Key [None]: Wj5Zf4wkNYPL3EV/gITyPvWd8LFNaFW8zn2Wt88Y
Default region name [None]:
Default output format [None]:
[root@ip-172-31-37-10 ~]# aws s3 ls
2023-01-02 08:27:14 iamexercisebucket
[root@ip-172-31-37-10 ~]#
```

**IAM User Details:**

- User:** bhargav-1
- User ARN:** arn:aws:iam::192095846711:user/bhargav-1
- Path:** /
- Creation time:** 2023-01-02 14:02 UTC+0530
- Permissions:** 1 policy applied: AdministratorAccess (AWS managed policy from group admin)