



NAME : SOWMYA

GMAIL:sowmyamokka7@gmail.com

Connect an Amazon S3 bucket to an EC2 instance using an IAM role

- Go to aws search bar and search s3 then click on it
- Now we have to create s3 bucket

The screenshot shows the AWS Management Console for the Amazon S3 service. The left sidebar contains navigation links for Buckets, Access Grants, Access Points, Object Lambda Access Points, Multi-Region Access Points, Batch Operations, IAM Access Analyzer for S3, Block Public Access settings, Storage Lens, Dashboards, Storage Lens groups, and AWS Organizations settings. The main content area displays the "General purpose buckets" section, which includes a "Create bucket" button and a table of existing buckets. The table has columns for Name, AWS Region, IAM Access Analyzer, and Creation date. Three buckets are listed: reddysvar-buc, var-buc, and vishnu-125.

Name	AWS Region	IAM Access Analyzer	Creation date
reddysvar-buc	US East (Ohio) us-east-2	View analyzer for us-east-2	June 19, 2024, 12:37:16 (UTC+05:30)
var-buc	Asia Pacific (Osaka) ap-northeast-3	View analyzer for ap-northeast-3	June 19, 2024, 12:19:38 (UTC+05:30)
vishnu-125	Asia Pacific (Mumbai) ap-south-1	View analyzer for ap-south-1	June 19, 2024, 15:56:15 (UTC+05:30)

- give the bucket name

aws Services Search [Alt+S] Mumbai hari @ 9054-1820-3034

Amazon S3 > Buckets > Create bucket

Create bucket [Info](#)

Buckets are containers for data stored in S3.

General configuration

AWS Region
Asia Pacific (Mumbai) ap-south-1

Bucket name [Info](#)

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

Object Ownership [Info](#)

- click on create bucket

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Encryption type [Info](#)

- ☒ Server-side encryption with Amazon S3 managed keys (SSE-S3)
- ☐ Server-side encryption with AWS Key Management Service keys (SSE-KMS)
- ☐ Dual-layer server-side encryption with AWS Key Management Service keys (DSSE-KMS)
Secure your objects with two separate layers of encryption. For details on pricing, see [DSSE-KMS pricing](#) on the Storage tab of the [Amazon S3 pricing page](#).

Bucket Key
Using an S3 Bucket Key for SSE-KMS reduces encryption costs by lowering calls to AWS KMS. S3 Bucket Keys aren't supported for DSSE-KMS. [Learn more](#)

☐ Disable

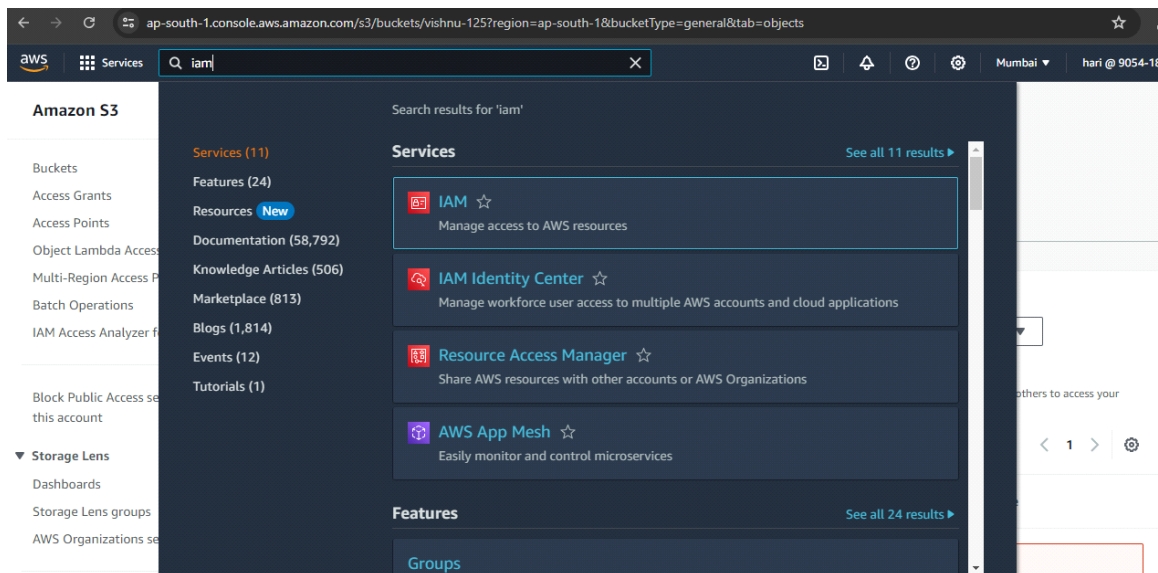
☒ Enable

► Advanced settings

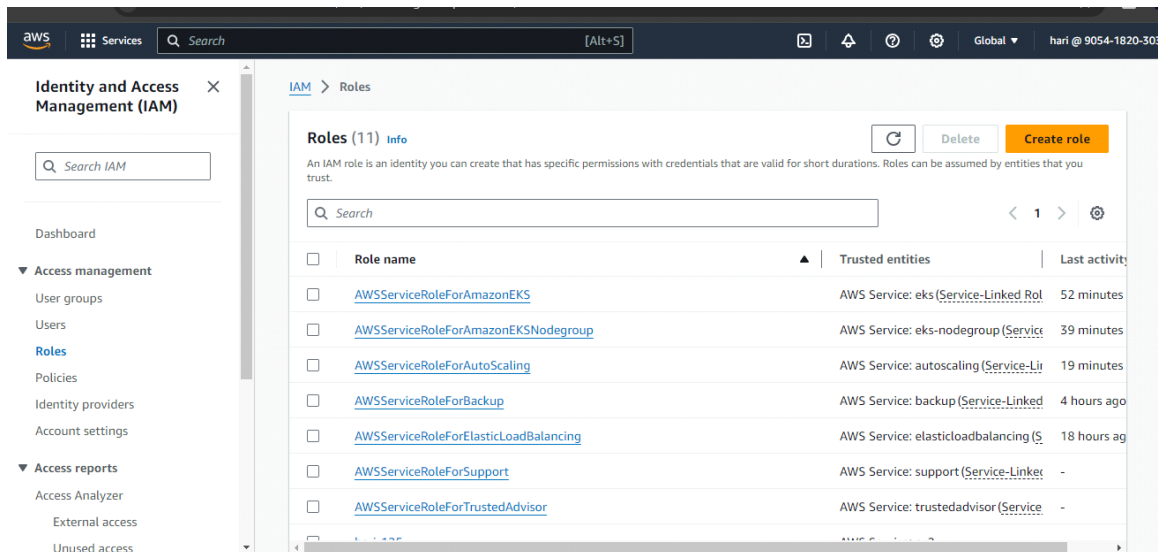
After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.

Cancel [Create bucket](#)

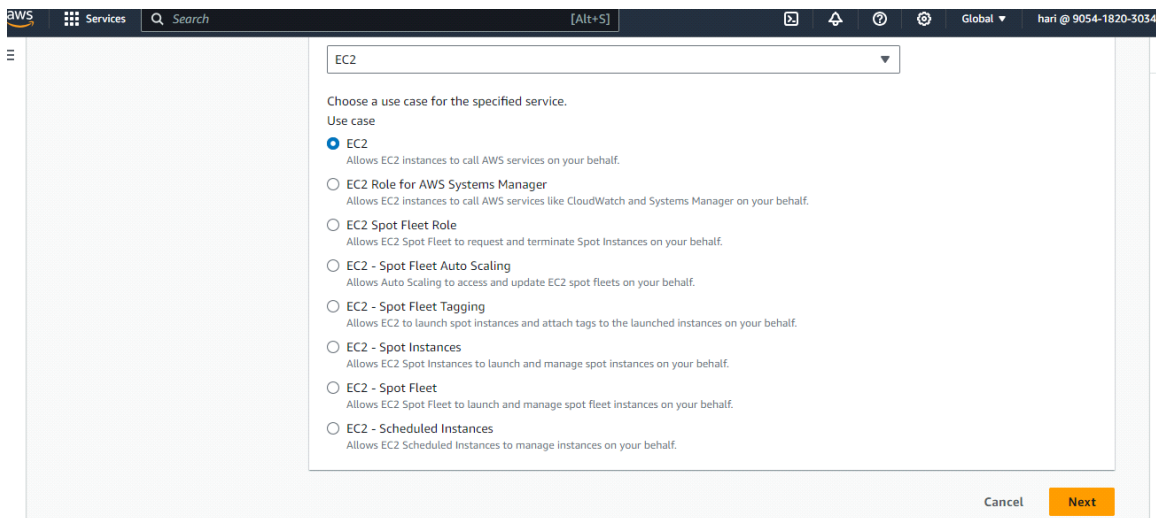
- go to search bar and search IAM and click on it



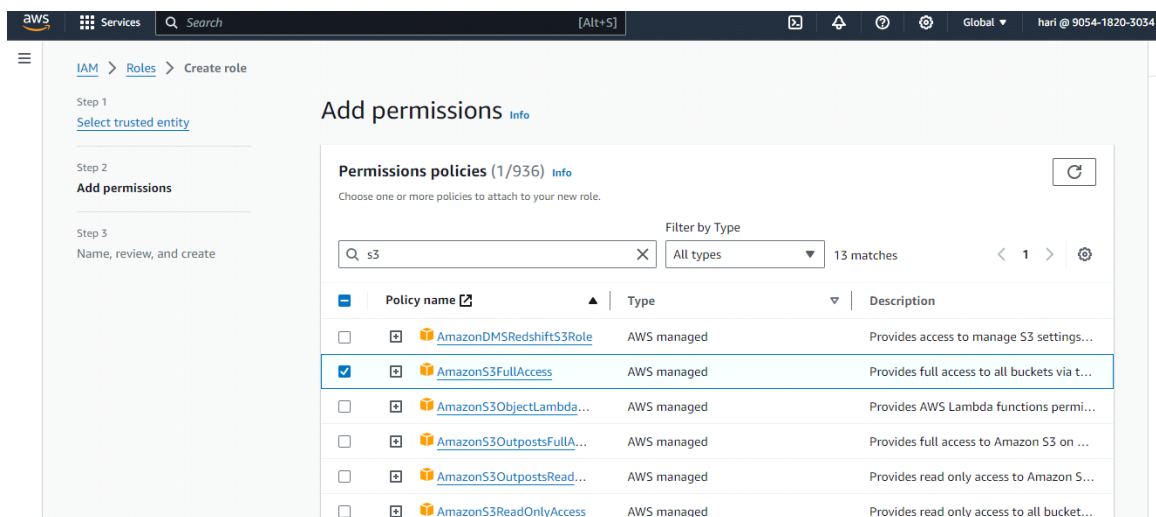
- click on roles in access management
- click on create role



- select ec2 on service or use case
- click on next



- search s3 and select amazons3fullAccess
- click on next



- give role name
- click on create role

Step 2
[Add permissions](#)

Step 3
Name, review, and create

Role details

Role name
Enter a meaningful name to identify this role.

Maximum 64 characters. Use alphanumeric and '+', '@', '-', '_' characters.

Description
Add a short explanation for this role.

Maximum 1000 characters. Use letters (A-Z and a-z), numbers (0-9), tabs, new lines, or any of the following characters: '_', '+', '@', '-', '/', '[', ']', '#', '\$', '%', '^', '&', '*', '!', ':', '"', '<', '>'.

Step 1: Select trusted entities Edit

Trust policy
1

- Now we need create ec2 instance
- click on instance running and click on launch instance
- give the name and create a key pair
- click on launch instance

aws
Services
Search
[Alt+S]
Mumbai
hari @ 9054-1820-3

EC2 > Instances > Launch an instance

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

Name

[Add additional tags](#)

Application and OS Images (Amazon Machine Image)

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

Summary

Number of instances

Software Image (AMI)
Amazon Linux 2023 AMI 2023.4.2...read more
ami-0e1d06225679bc1c5

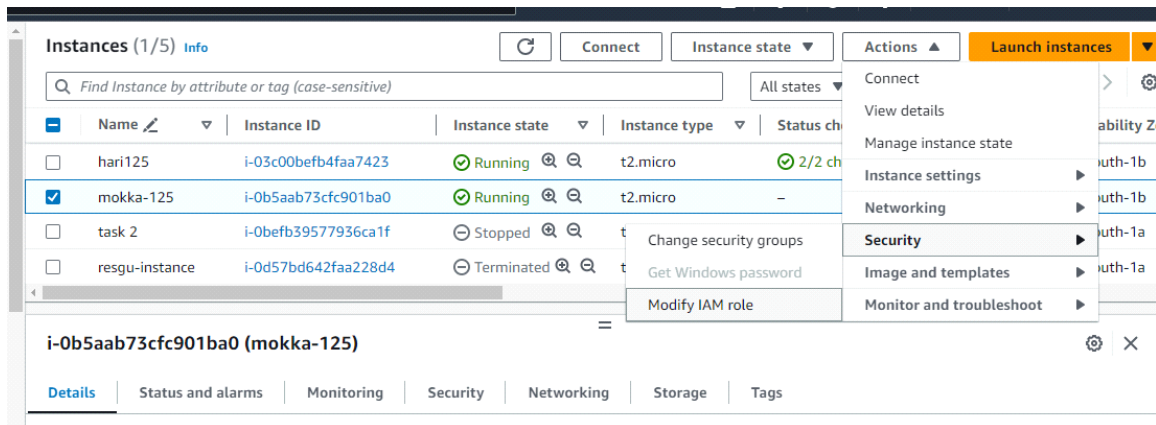
Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

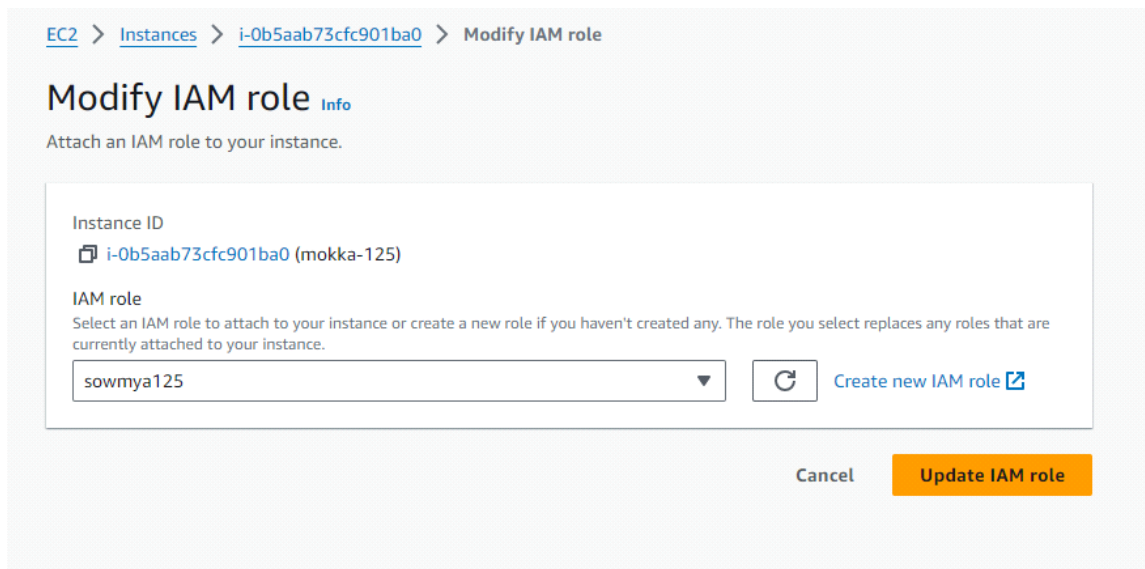
Storage (volumes)
1 volume(s) - 8 GiB

Cancel
Launch instance

- Select the instance which we create
- go to actions and click on security then click on modify IAM role



- Select IAM role (already created)
- click on update IAM role



- Now go to ec2 instance and connect to web or gitbash
- we want bucket list the command is `aws s3 ls`
- now we need to create a file the command is `vi filename`
- we need to insert data into the file and save it

- yes the file was uploaded in s3 bucket

The screenshot shows the Amazon S3 console interface. On the left is a navigation sidebar with 'Amazon S3' selected. The main area displays the 'vishnu-125' bucket. The 'Objects' tab is active, showing a list of objects. One object, 'sowmya', is listed with a size of 26.0 B and a storage class of 'Standard'. The object was last modified on June 19, 2024, at 16:06:51 (UTC+05:30).

Amazon S3

Buckets

- Access Grants
- Access Points
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- IAM Access Analyzer for S3

Block Public Access settings for this account

▼ **Storage Lens**

- Dashboards
- Storage Lens groups
- AWS Organizations settings

Amazon S3 > Buckets > vishnu-125

vishnu-125 Info

Objects Properties Permissions Metrics Management Access Points

Objects (1) Info

Create folder Upload

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	sowmya	-	June 19, 2024, 16:06:51 (UTC+05:30)	26.0 B	Standard

