

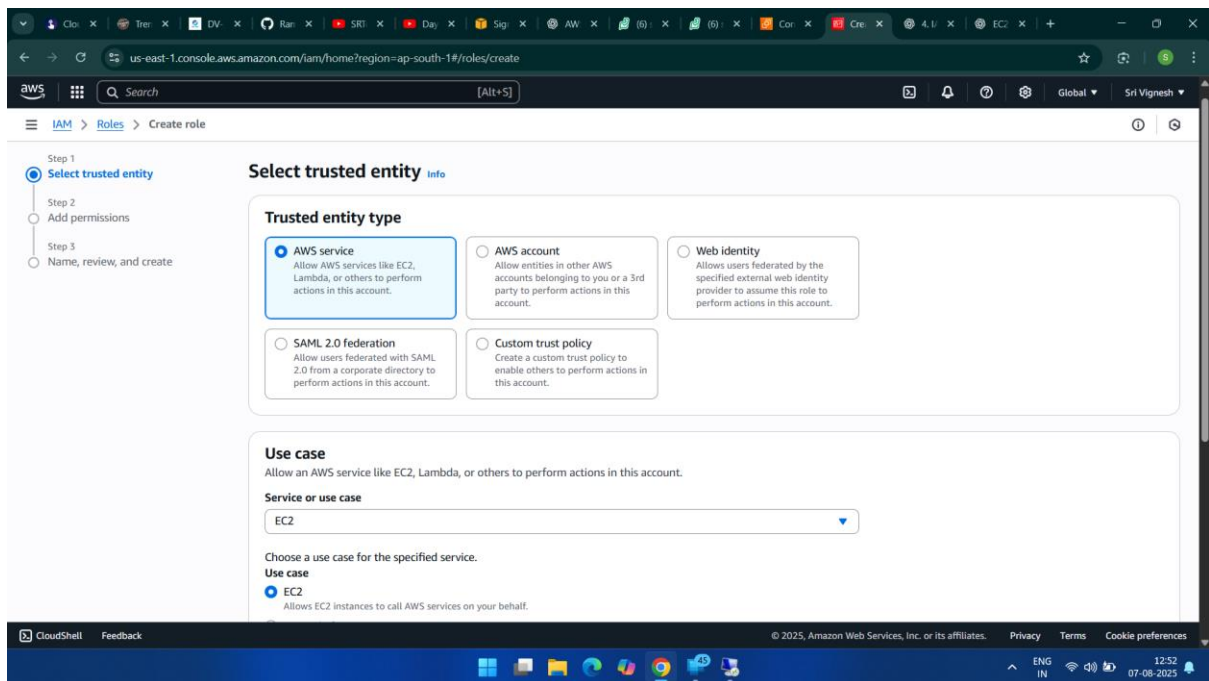
EC2 + S3 via IAM Role

Prerequisites:

- EC2 Instance preinstalled with AWS CLI.

Step 1: Create an IAM Role

- Console > IAM > Roles > Create Role
- Trusted Entity as AWS Service.
- Service as EC2
- Add Permission Policy : AmazonS3FullAccess
- Name this role and Create.



us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/roles/create?trustedEntityType=AWS_SERVICE&selectedService=EC2&selectedUseCase=EC2

Step 1 Select trusted entity
Step 2 **Add permissions**
Step 3 Name, review, and create

Add permissions Info

Permissions policies (1/1068) Info
Choose one or more policies to attach to your new role.

Filter by Type: All types 14 matches

Search: s3

<input type="checkbox"/>	Policy name	Type	Description
<input type="checkbox"/>	AmazonDMSRedshiftS3Role	AWS managed	Provides access to manage S3 settings ...
<input checked="" type="checkbox"/>	AmazonS3FullAccess	AWS managed	Provides full access to all buckets via t...
<input type="checkbox"/>	AmazonS3ObjectLambdaExecutionRolePolicy	AWS managed	Provides AWS Lambda functions permi...
<input type="checkbox"/>	AmazonS3OutpostsReadOnlyAccess	AWS managed	Provides full access to Amazon S3 on ...
<input type="checkbox"/>	AmazonS3OutpostsReadOnlyAccess	AWS managed	Provides read only access to Amazon S...
<input type="checkbox"/>	AmazonS3ReadOnlyAccess	AWS managed	Provides read only access to all bucket...
<input type="checkbox"/>	AmazonS3TablesFullAccess	AWS managed	Provides full access to all S3 table buc...
<input type="checkbox"/>	AmazonS3TablesLakeFormationServiceRole	AWS managed	This managed policy grants AWS Lake ...
<input type="checkbox"/>	AmazonS3TablesReadOnlyAccess	AWS managed	Provides read only access to all S3 tabl...

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

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

Failed to create new instance profile for role.
Instance Profile EC2-S3-Access-Role already exists.

Role EC2-S3-AccessRole created with a few errors. See error description below. View role

Roles (1/6) Info

An IAM role is an identity you can create that has specific permissions with credentials that are valid for short durations. Roles can be assumed by entities that you trust.

Search

<input type="checkbox"/>	Role name	Trusted entities	Last activity
<input type="checkbox"/>	AWSServiceRoleForSupport	AWS Service: support (Service-Linker)	-
<input type="checkbox"/>	AWSServiceRoleForTrustedAdvisor	AWS Service: trustedadvisor (Service)	-
<input type="checkbox"/>	CWAgentRole	AWS Service: ec2	2 days ago
<input type="checkbox"/>	EC2-S3-Access-Role	AWS Service: ec2	-
<input checked="" type="checkbox"/>	EC2-S3-AccessRole	AWS Service: ec2	-
<input type="checkbox"/>	lambda-exec-role	AWS Service: lambda	-

Roles Anywhere Info

Authenticate your non AWS workloads and securely provide access to AWS services. Manage

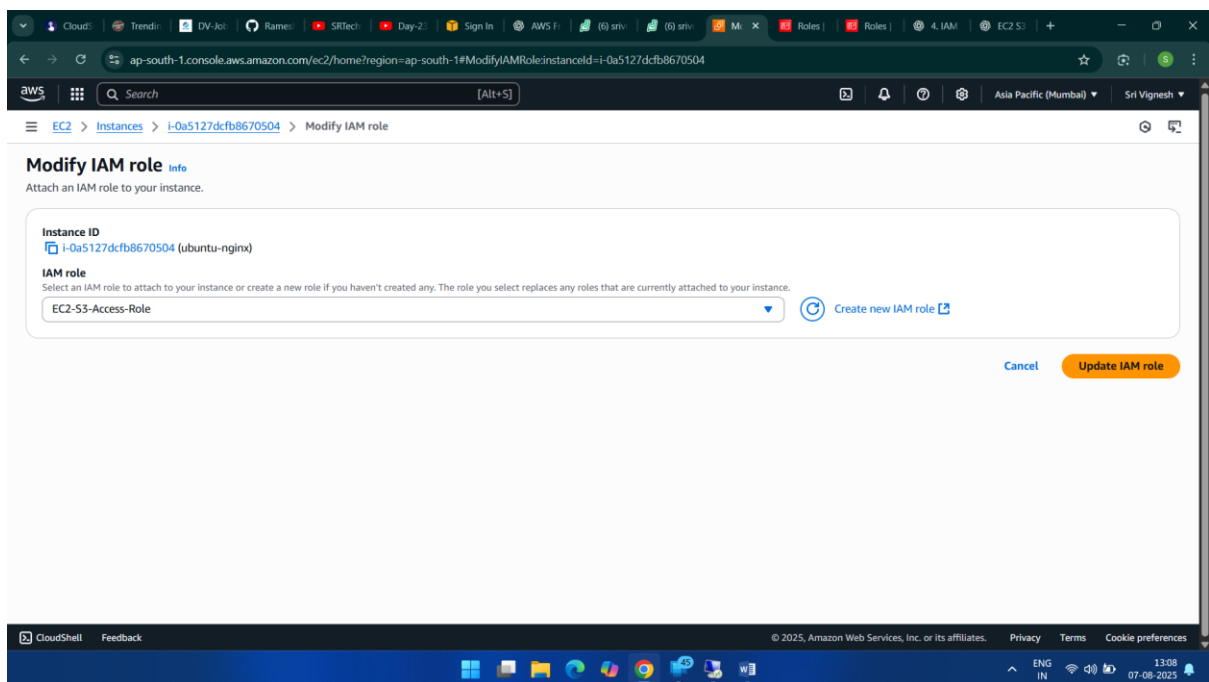
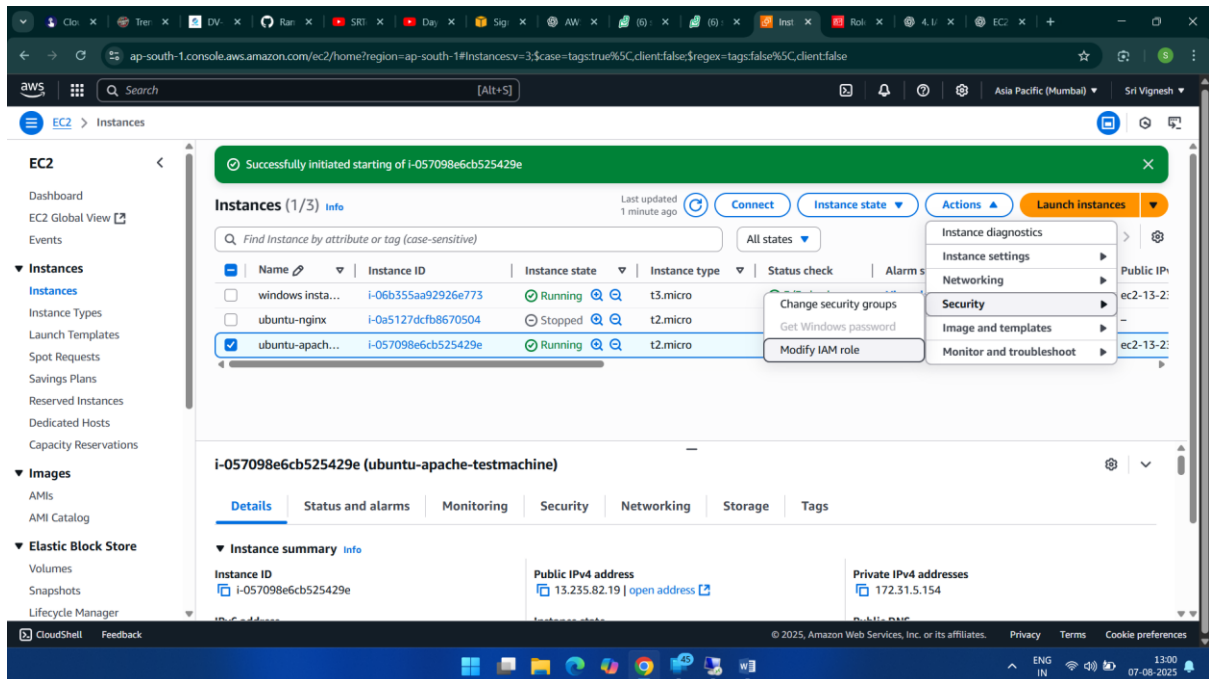
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Step 2: Attach the Policy to EC2 Instance

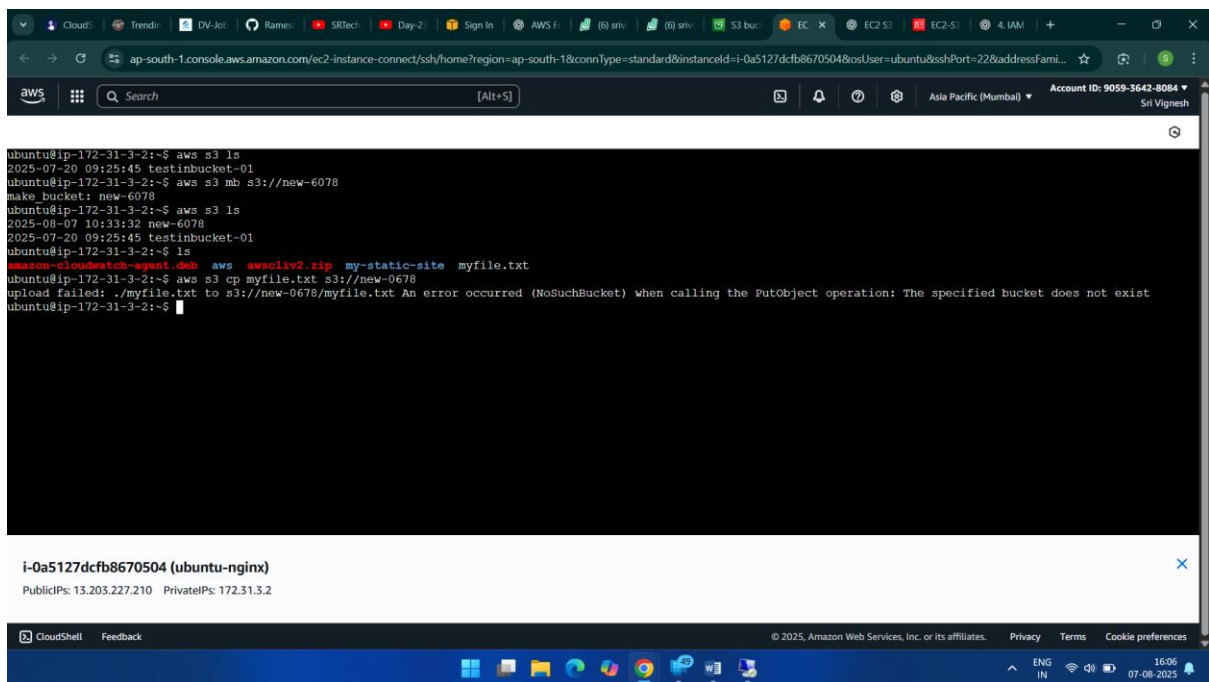
- Select Instance > Actions > Security > Modify IAM role
- Select the created role and update the role.



Step 3: Verify in EC2

Commands like

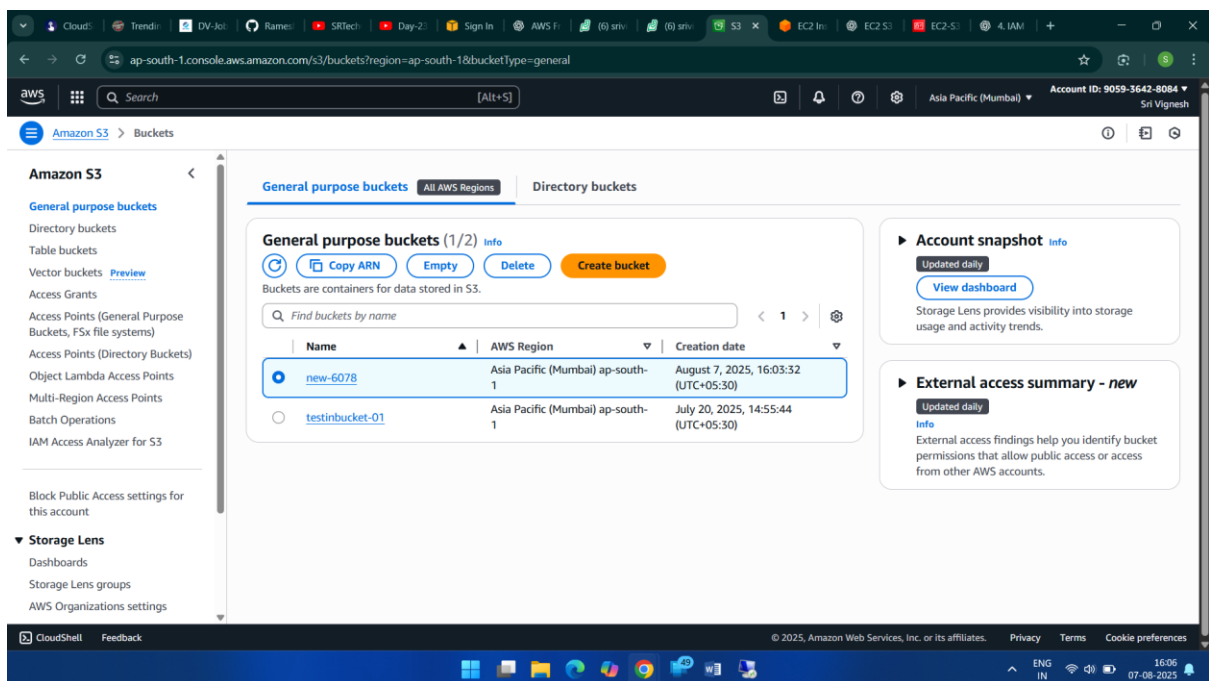
- `aws s3 ls`
- `aws s3 mb s3://bucket_name_globally_unique` >Create a new bucket
- `aws s3 cp myfile.txt s3://bucket_name` >Upload file to S3 bucket
- `aws s3 rm s3://bucket_name/myfile.txt` >Remove file in S3
- `aws s3 rb s3://bucket_name` >Removes bucket



```
ubuntu@ip-172-31-3-2:~$ aws s3 ls
2025-07-20 09:25:45 testinbucket-01
ubuntu@ip-172-31-3-2:~$ aws s3 mb s3://new-6078
make_bucket: new-6078
ubuntu@ip-172-31-3-2:~$ aws s3 ls
2025-08-07 10:33:32 new-6078
2025-07-20 09:25:45 testinbucket-01
ubuntu@ip-172-31-3-2:~$ ls
amazon-cloudwatch-agent.deb  awscliw2.zip  my-static-site  myfile.txt
ubuntu@ip-172-31-3-2:~$ aws s3 cp myfile.txt s3://new-0678
upload failed: ./myfile.txt to s3://new-0678/myfile.txt An error occurred (NoSuchBucket) when calling the PutObject operation: The specified bucket does not exist
ubuntu@ip-172-31-3-2:~$
```

i-0a5127dcfb8670504 (ubuntu-nginx)

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```
ubuntu@ip-172-31-3-2:~$ aws s3 ls
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various-cloudwatch-agent:deb  aws  awscli.v2.zip  my-static-site  myfile.txt
ubuntu@ip-172-31-3-2:~$ aws s3 cp myfile.txt s3://new-0678
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ubuntu@ip-172-31-3-2:~$ ^C
ubuntu@ip-172-31-3-2:~$ aws s3 cp myfile.txt s3://new-6078
upload: ./myfile.txt to s3://new-6078/myfile.txt
ubuntu@ip-172-31-3-2:~$
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ap-south-1.console.aws.amazon.com/s3/buckets/new-6078?region=ap-south-1&bucketType=general&tab=objects

Amazon S3 Buckets new-6078

new-6078 info

Objects (1)

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"/>	myfile.txt	txt	August 7, 2025, 16:12:21 (UTC+05:30)	11.0 B	Standard

Cloud: Trendi: DV-Joi: Ramei: SRTech: Day-2: Sign In: AWS F: (0) srv: (0) srv: new-6: EC X: EC2 S3: EC2 S3: 4 IAM: +

ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?region=ap-south-1&connType=standard&instanceId=i-0a5127dcfb8670504&osUser=ubuntu&sshPort=22&addressFami...

aws Search [Alt+S]

Asia Pacific (Mumbai) Account ID: 9059-1642-8084 Sri Vignesh

```
ubuntu@ip-172-31-3-2:~$ aws s3 ls
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upload: ./myfile.txt to s3://new-6078/myfile.txt
ubuntu@ip-172-31-3-2:~$ aws s3 rm s3://new-6078/myfile.txt
delete: s3://new-6078/myfile.txt
ubuntu@ip-172-31-3-2:~$ aws s3 rb s3://new-6078
remove bucket: new-6078
ubuntu@ip-172-31-3-2:~$ aws s3 ls
2025-07-20 09:25:45 testinbucket-01
ubuntu@ip-172-31-3-2:~$
```

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