Name: Sanjay Balaji. S Reg. No: 212223240149

Exp. No:	2	Cloud Storage creation and launching an EC2 Instance in AWS Platform	Year/Sem	II / IV
DATE:	22/03/25		Branch	AIML

Aim:

To create cloud storage (S3 Bucket) and launch an EC2 instance in AWS.

Procedure:

1. Creating Cloud Storage (S3 Bucket):

- Log in to AWS Console → Open AWS Management Console.
- Go to S3 Service → Click on S3.
- Create a New Bucket:
- Click “Create bucket”.
- Enter a unique bucket name.
- Choose an AWS region.
- Set public access settings (default is private).
- Choose a storage class (Standard, Intelligent-Tiering, etc.).
- Configure Optional Settings:
- Enable Versioning if needed.
- Enable Encryption for security.
- Create Bucket → Click Create bucket.

2. Launching an EC2 Instance:

- Go to EC2 Service → Open EC2 Dashboard.
- Launch Instance:
- Click “Launch Instance”.
- Choose an Amazon Machine Image (AMI) (e.g., Amazon Linux, Ubuntu, Windows).
- Select an instance type (e.g., t2.micro for Free Tier).
- Configure Instance Details (VPC, subnet, auto-assign public IP).
- Add storage (default is 8 GiB for Linux, modify if needed).
- Add Tags (e.g., Name: MyEC2Instance).
- Configure Security Group (Allow SSH for Linux or RDP for Windows).
- Create/Select Key Pair:
- Choose existing key pair or create a new key pair.
- Download the .pem file for SSH access.
- Launch the Instance → Click Launch.

Name: Sanjay Balaji. S Reg. No: 212223240149

Output:

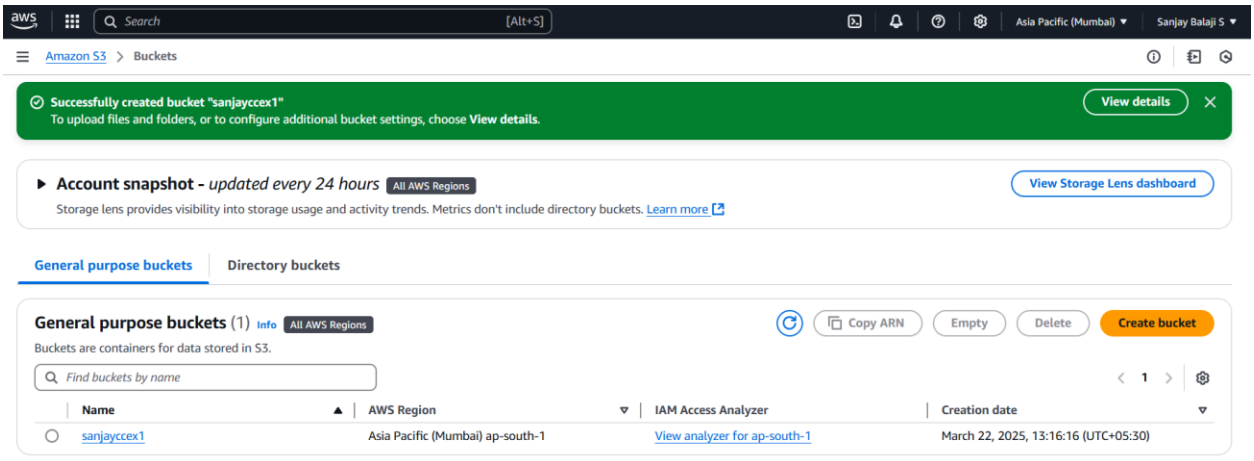

Fig 1. Creation of bucket

Name: Sanjay Balaji. S Reg. No: 212223240149

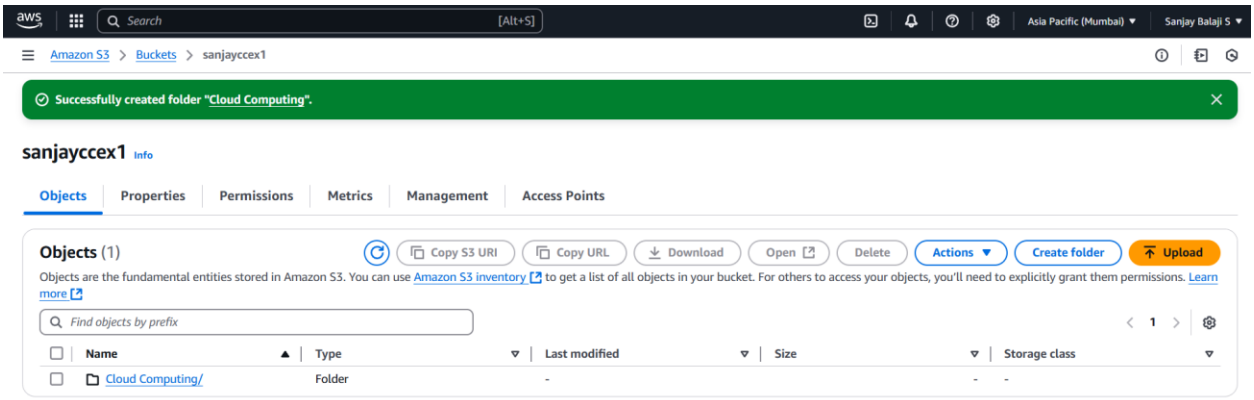

Fig 2. Creation of folder inside bucket

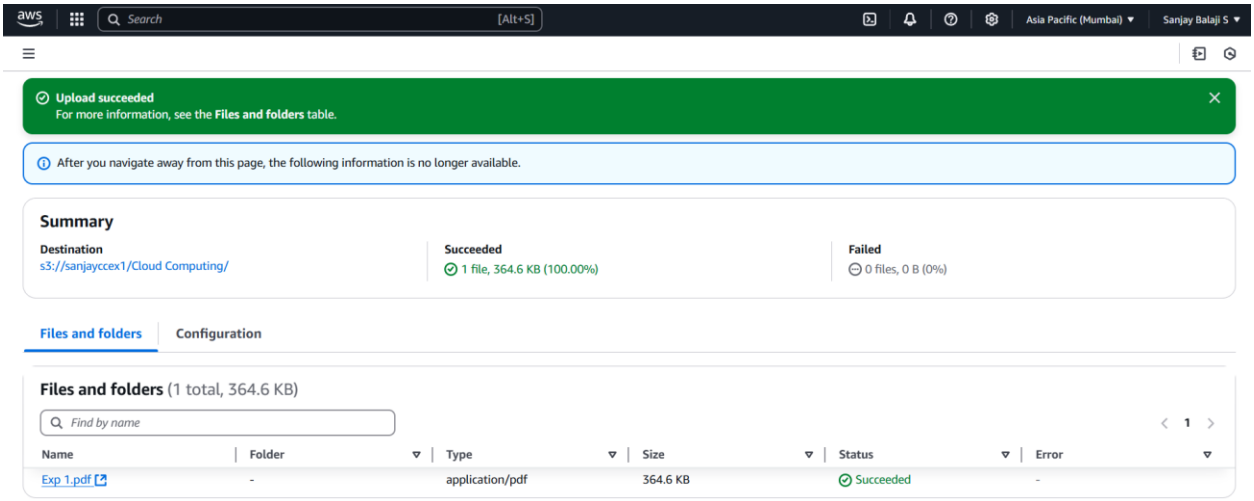

Fig 3. Uploading a file into the bucket

Name: Sanjay Balaji. S Reg. No: 212223240149

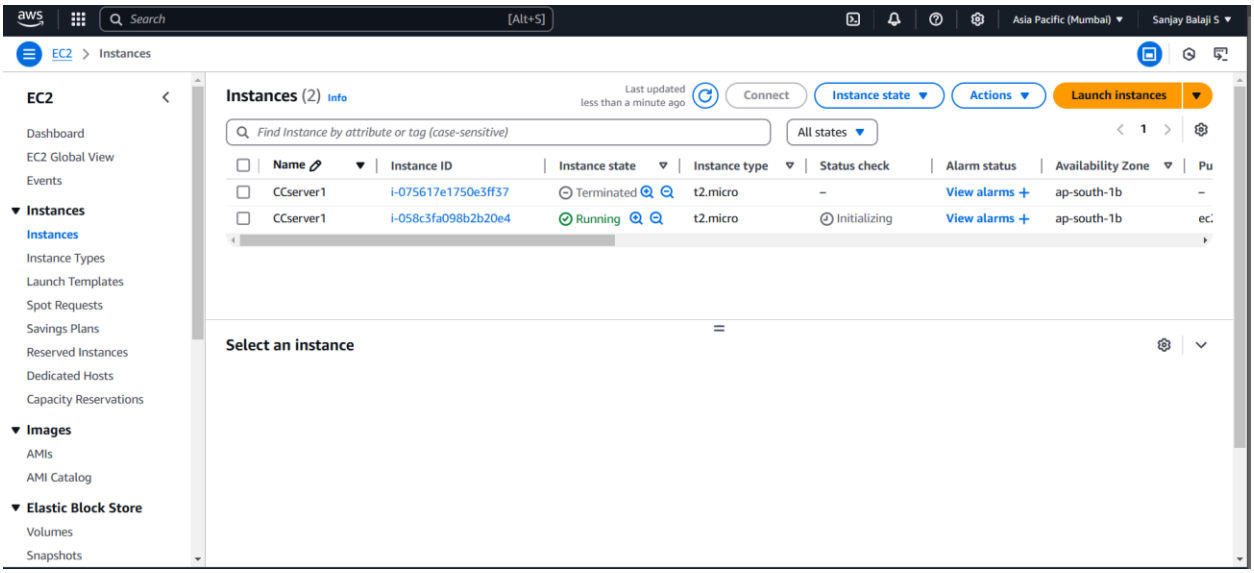

Fig 4: Creation of EC2 instance

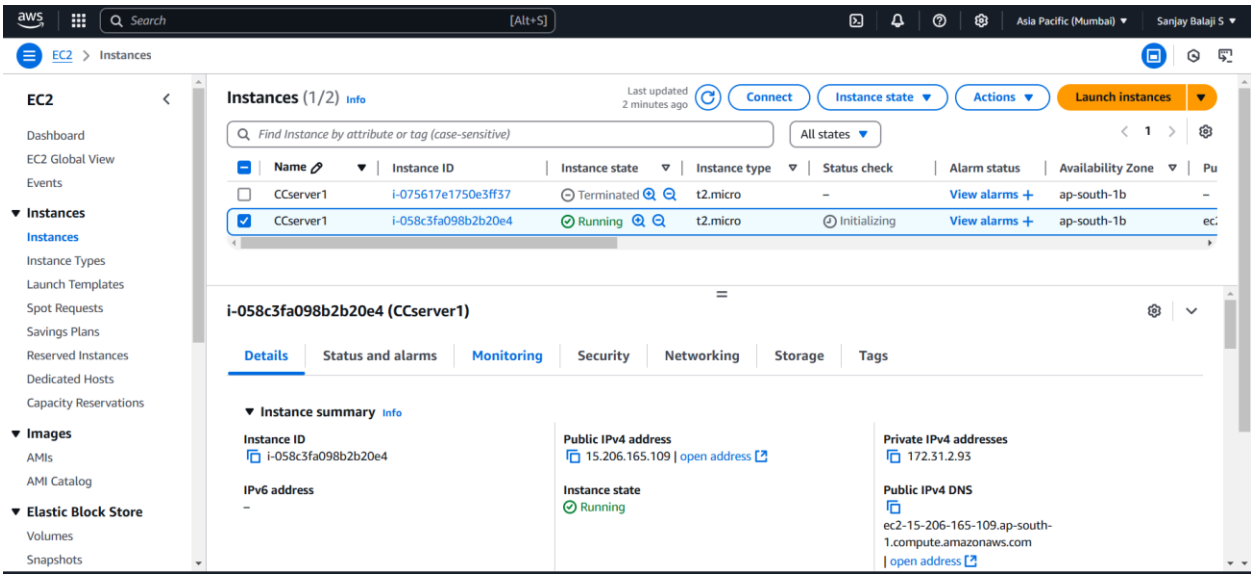

Fig 5. Deatils of EC2 instance

Name: Sanjay Balaji. S Reg. No: 212223240149

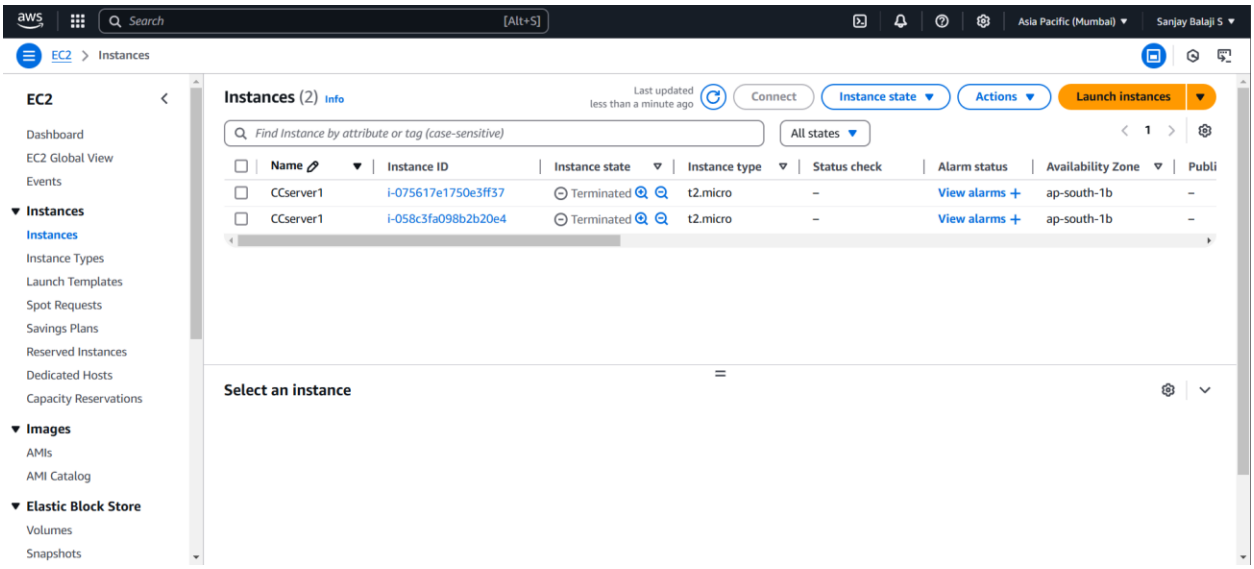

Fig 6. Termination of EC2 instance

Conclusion:

AWS provides scalable and flexible cloud solutions for both storage (S3) and compute (EC2) services. By completing this experiment, cloud storage was created, and an EC2 instance was successfully launched.

Result:

Cloud storage (S3 bucket) was successfully created, and an EC2 instance was launched in AWS.