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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.

Output:

The screenshot displays the AWS Management Console interface for the 'Buckets' section. At the top, a green notification banner states: 'Successfully created bucket "sanjaycccx1"'. Below this, a section for 'Account snapshot' is visible. The main content area is divided into 'General purpose buckets' and 'Directory buckets'. Under 'General purpose buckets', a table lists the newly created bucket 'sanjaycccx1' with its region 'Asia Pacific (Mumbai) ap-south-1' and creation date 'March 22, 2025, 13:16:16 (UTC+05:30)'. The console also shows options to 'Copy ARN', 'Empty', 'Delete', and 'Create bucket'.

aws [Search] [Alt+S] Asia Pacific (Mumbai) Sanjay Balaji S

Amazon S3 > Buckets

Successfully created bucket "sanjaycccx1"
To upload files and folders, or to configure additional bucket settings, choose [View details](#).

Account snapshot - updated every 24 hours All AWS Regions View Storage Lens dashboard

General purpose buckets Directory buckets

General purpose buckets (1) info All AWS Regions
Buckets are containers for data stored in S3.

Find buckets by name

Name	AWS Region	IAM Access Analyzer	Creation date
sanjaycccx1	Asia Pacific (Mumbai) ap-south-1	View analyzer for ap-south-1	March 22, 2025, 13:16:16 (UTC+05:30)

Copy ARN Empty Delete Create bucket

Fig 1. Creation of bucket

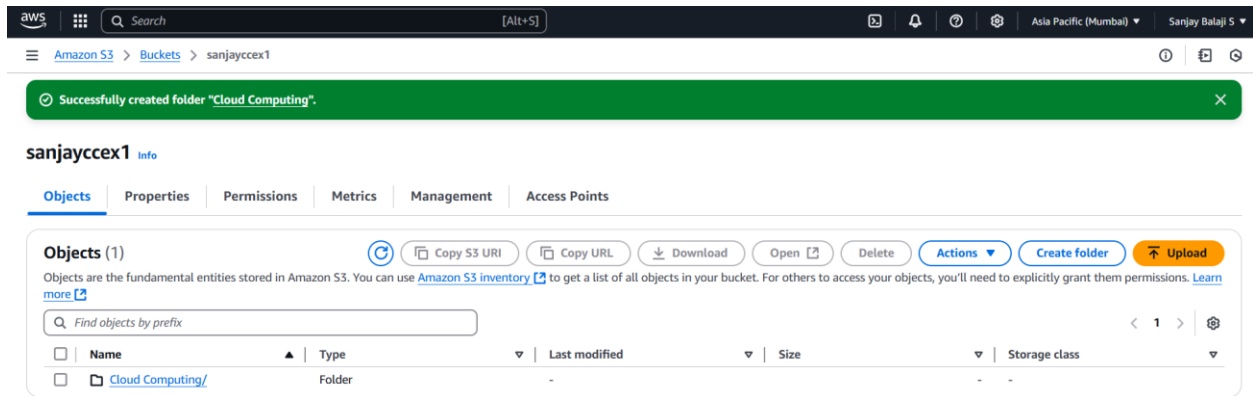


Fig 2. Creation of folder inside bucket

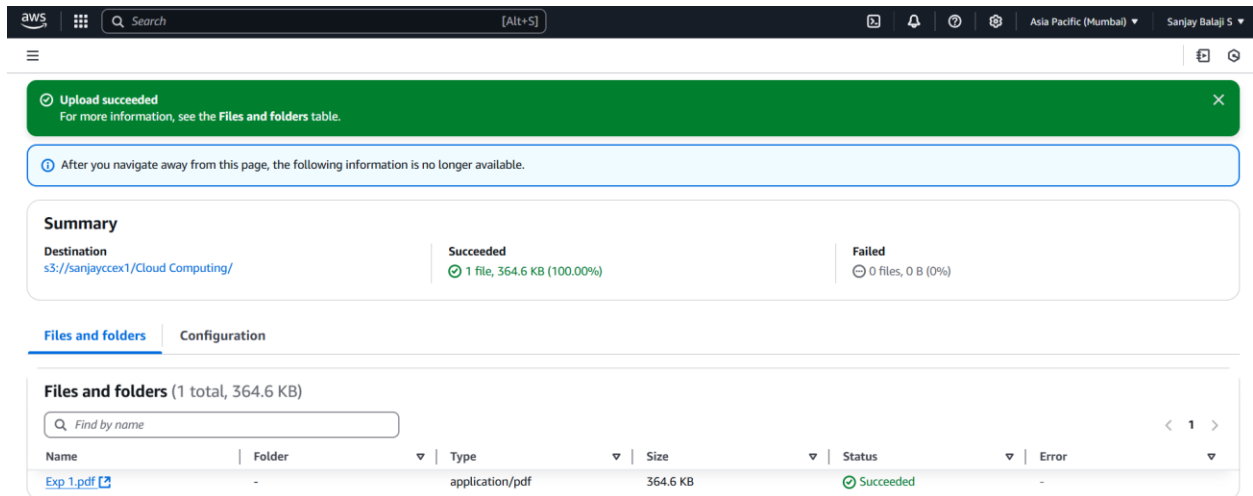


Fig 3. Uploading a file into the bucket

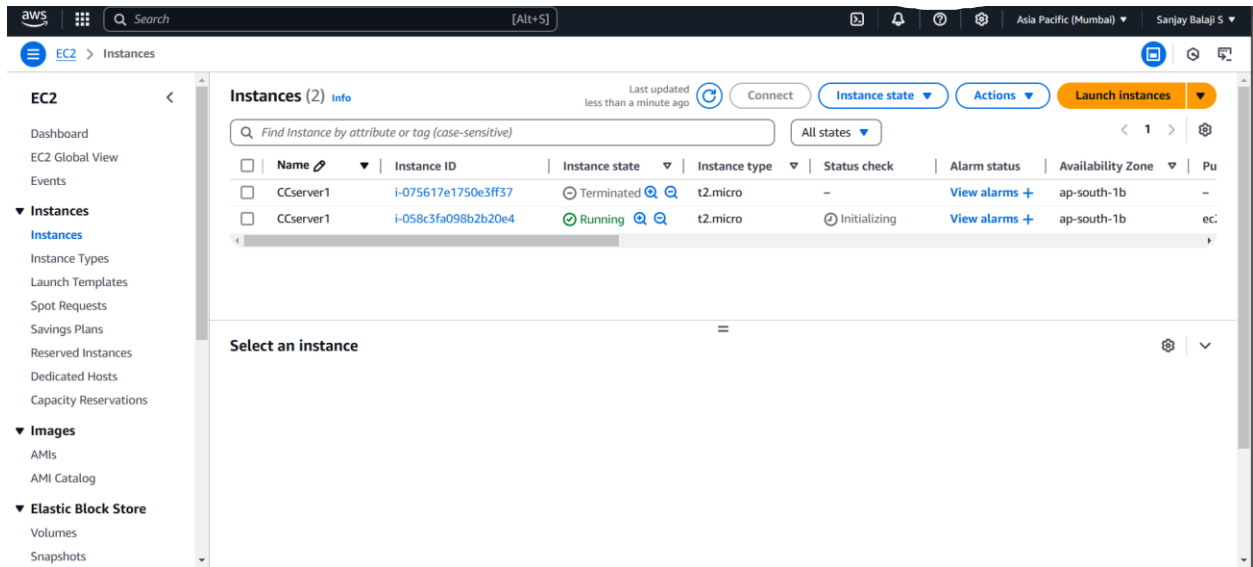


Fig 4: Creation of EC2 instance

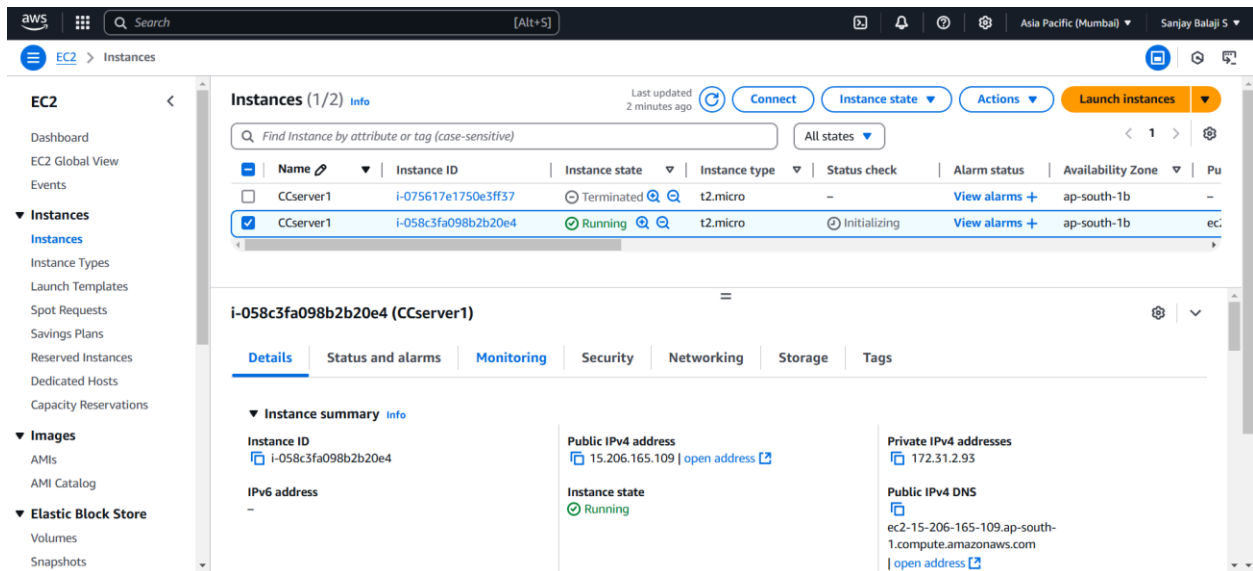


Fig 5. Deatils of EC2 instance

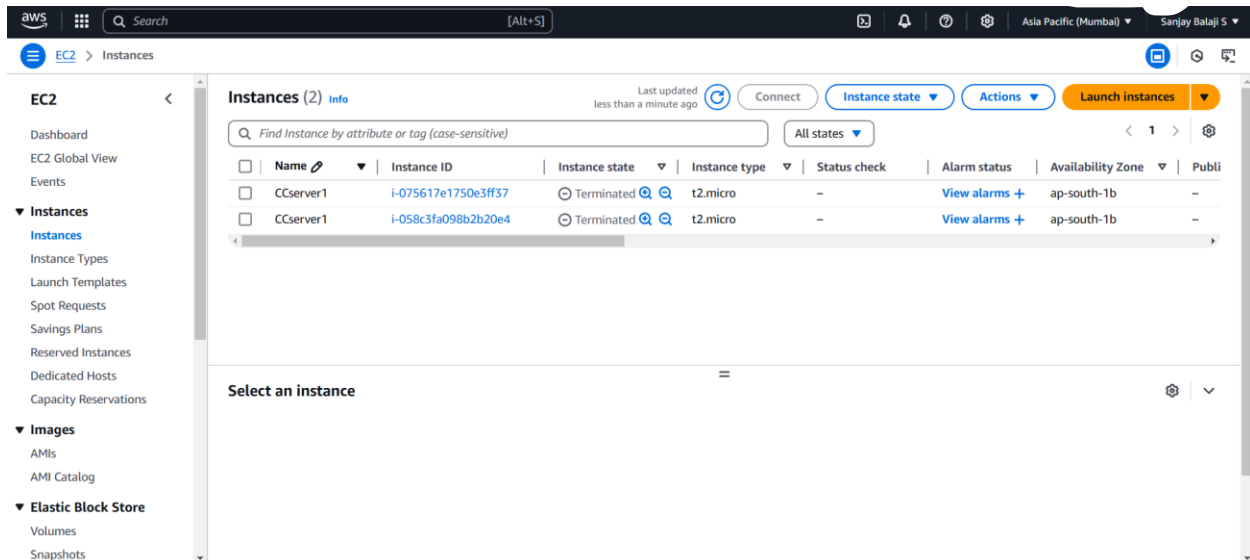


Fig 6. Termination of EC2 instance

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.