

AWS Console – Documentation

1) Create an S3 bucket (Console + CLI)

Console steps (easy):

- 1) Sign in to the AWS Console → Services → **S3**.
- 2) Click **Create bucket**.
- 3) Bucket name: must be globally unique (e.g., yourname-unique-bucket-2025).
- 4) Region: pick the same region you're using for EC2/Lambda (e.g., us-east-1).
- 5) Uncheck “Block all public access” **only** if you intend to make objects public (not recommended). By default, keep public access blocked.
- 6) (Recommended) In **Default encryption** choose **AES-256 (SSE-S3)**.
- 7) Click **Create bucket**.

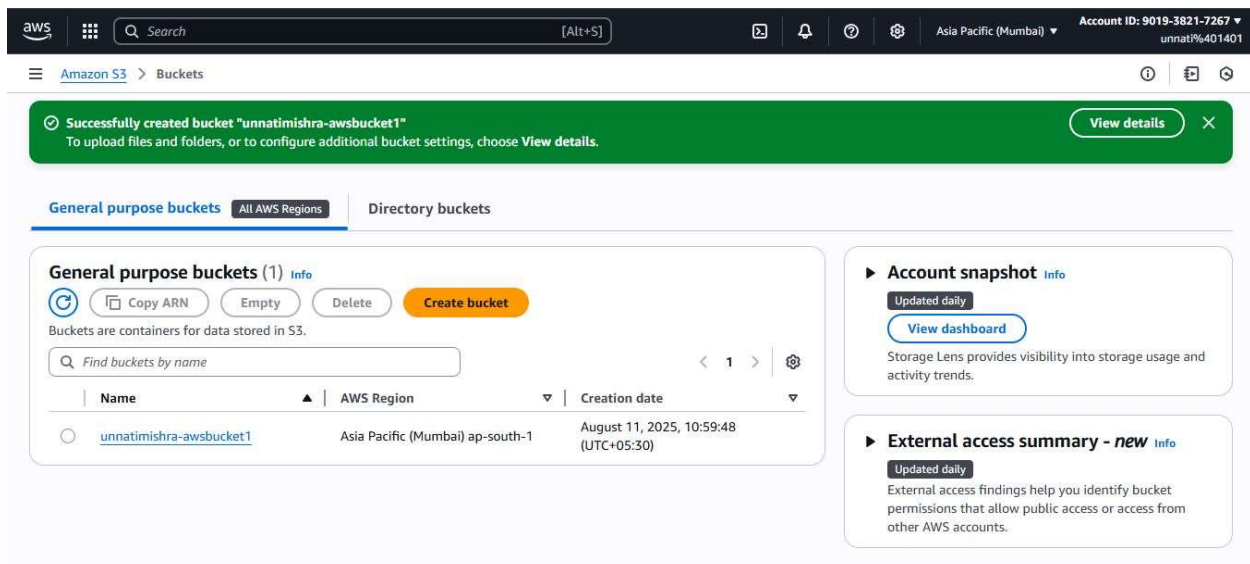


Fig1: S3 Bucket Created

2) Launch an EC2 instance (free-tier eligible)

Goal: Launch a t2.micro or t3.micro (free-tier) instance, SSH in, run a Python script.

Console steps

1. Console → Services → **EC2** → **Instances** → **Launch instances**.
2. **Choose AMI:** Select **Amazon Linux 2 AMI (HVM)** (Free tier eligible).
3. **Choose Instance Type:** pick t2.micro (or t3.micro) — free-tier eligible.

4. **Key pair (login):** Create a new key pair (RSA). Download the .pem file and keep it safe.
 - If you already have a key pair, you can use it.
5. **Network settings / Security group:**
 - Allow **SSH (port 22)** — restrict source to **My IP** (recommended) or a safe IP range.
 - If you want a web page, add **HTTP (port 80)**.
6. **Storage:** default 8 GB EBS is okay (free-tier includes some EBS).
7. Click **Launch instance**.

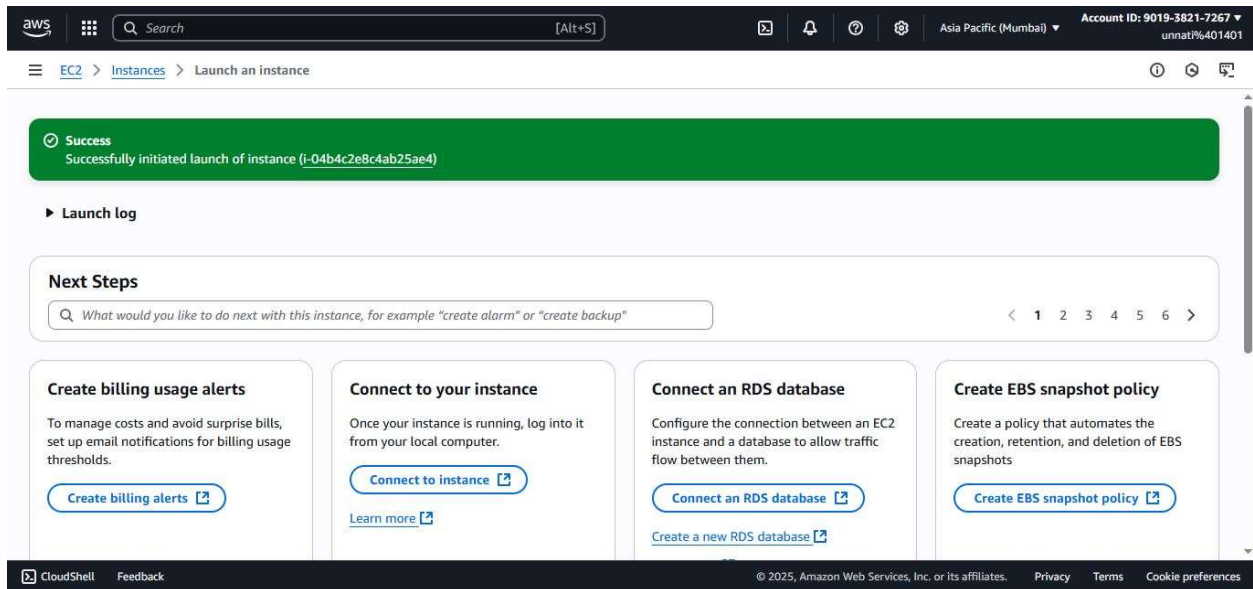


Fig2: EC2 Instance Created

3) Deploy to AWS Lambda — step-by-step

- 1) Open the **Lambda console** → **Functions** → **Create function** → **Author from scratch**.
- 2) Enter a name (e.g., calculator), pick runtime (e.g., Python 3.13 or python3.13), choose or create an execution role (see IAM role below), then Create. [AWS Documentation](#)
- 3) In the function page, under **Code**, choose **Upload from** → .zip file and upload the function.zip you downloaded. Set handler to lambda_function.lambda_handler. Save.
- 4) Configure a test event (JSON) in the console, e.g.:

```

json

{
  "operation": "add",
  "a": 2,
  "b": 3
}

```

5) Click **Test** — see the result and logs (CloudWatch).

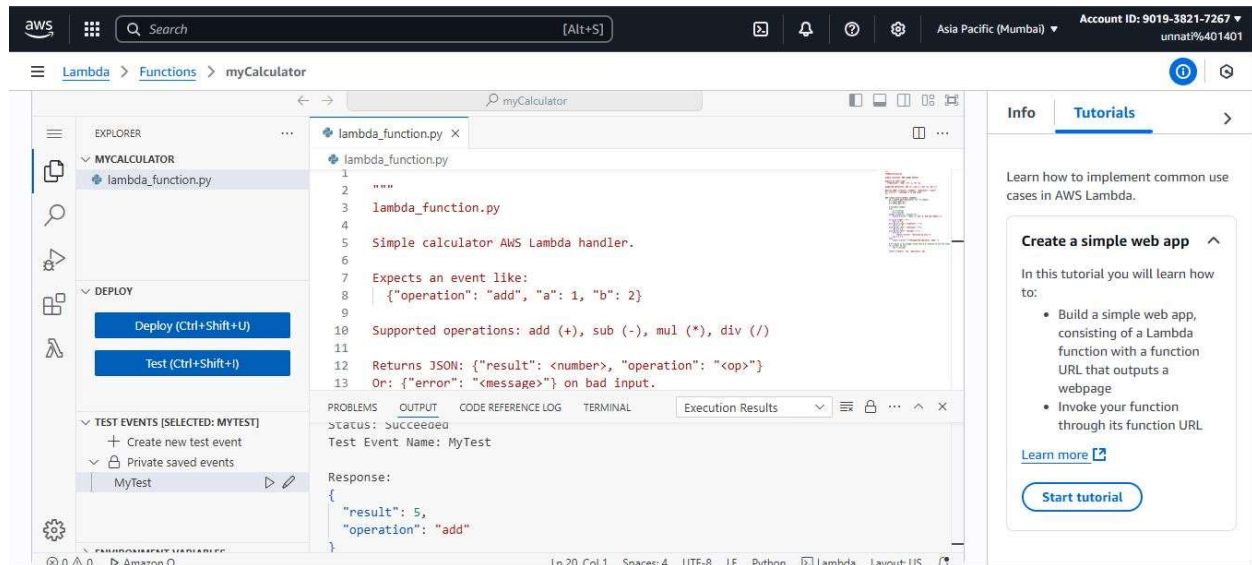


Fig3: Python Code Deployed Using Lambda