Name : NAVIYA DHARSHINI

ROLL NUM : 23AD083

Day 02 (03/07/2025)

📘 AWS Cloud Services Report

🔰 Overview

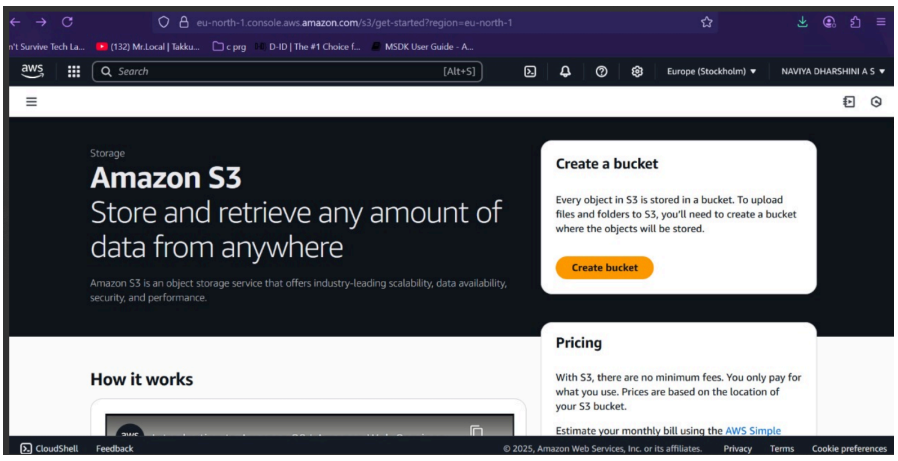
Amazon Web Services (AWS) provides scalable cloud solutions through services categorized into:

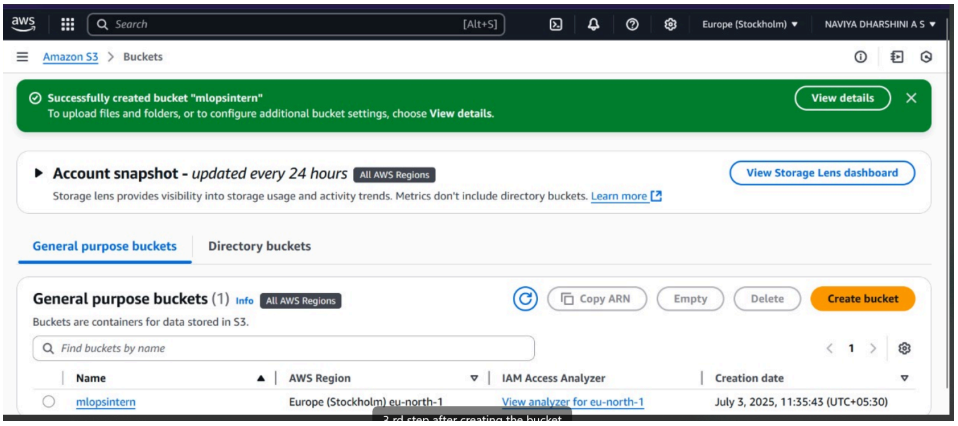
- **Compute** (e.g., EC2, Lambda)
- **Storage** (e.g., S3, EBS)
- **Database** (e.g., RDS, DynamoDB)

These services allow users to deploy, manage, and scale apps without owning physical infrastructure.

☁️ STORAGE SERVICES

🔹 1. Amazon S3 (Simple Storage Service)

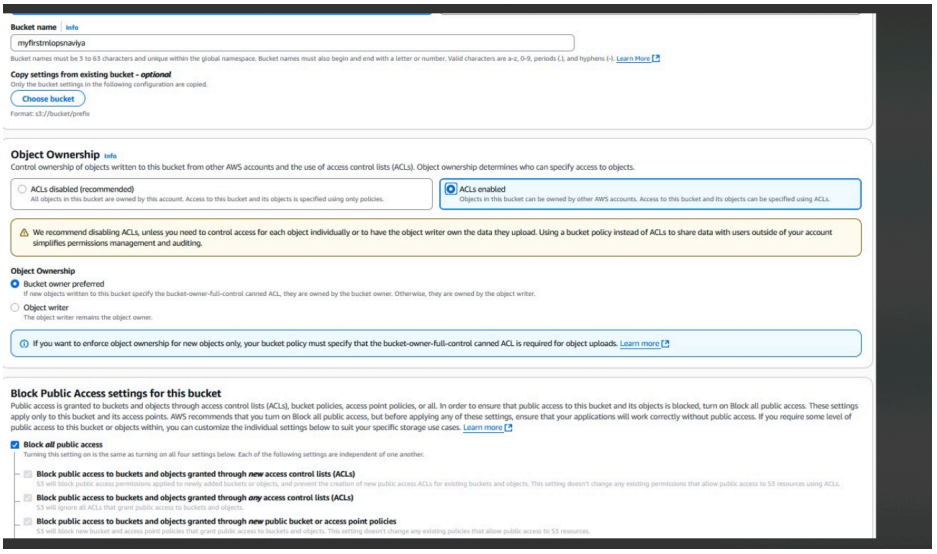




Use: Store files, images, backups, static websites, logs, etc.

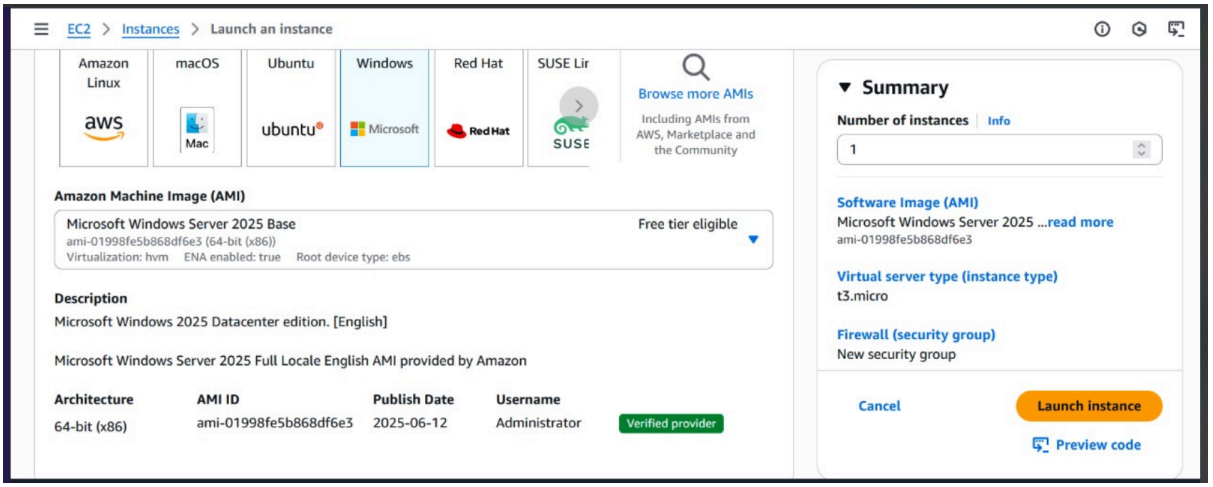
🔧 Steps to Use:

1. Login to AWS Console → Search “S3”
2. Click **Create Bucket**



3. Set:
    - Bucket Name (unique)
    - Region
4. Keep default settings (or enable public access if hosting static website)
5. Upload files → Done

🔹 2. Amazon EBS (Elastic Block Store)



Use: Storage volumes for EC2 instances (like a hard disk attached to your virtual machine)

🔧 **Steps to Use:**

1. Go to EC2 Dashboard → Volumes
2. Click **Create Volume**
3. Choose size, type (e.g., gp2)
4. Attach the volume to a running EC2 instance
5. Login to EC2 and mount the volume (via terminal)

⚙️ COMPUTE SERVICES

🔹 3. Amazon EC2 (Elastic Compute Cloud)

Use: Launch and manage virtual servers (Linux/Windows)

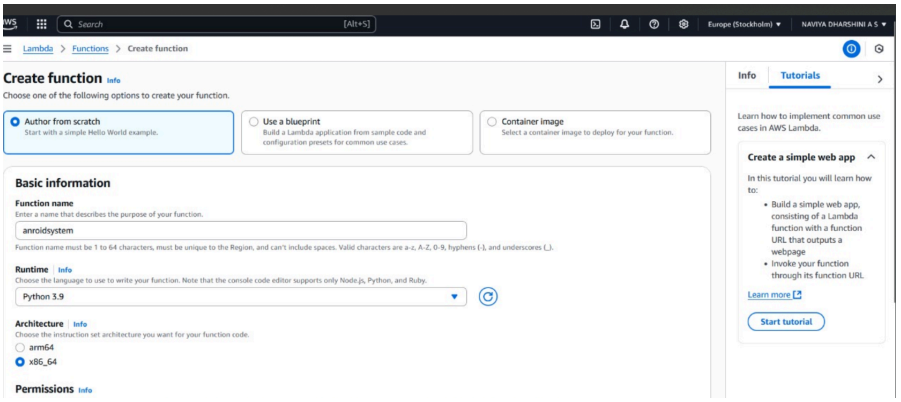
🔧 **Steps to Use:**

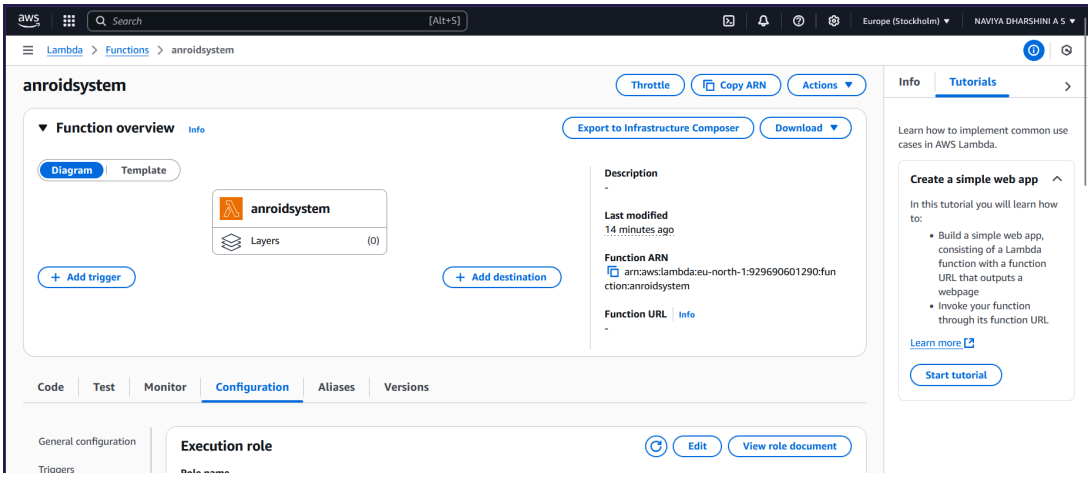
1. AWS Console → EC2 → Launch Instance
2. Choose:
    - AMI (e.g., Ubuntu)
    - Instance Type (e.g., t2.micro for free tier)

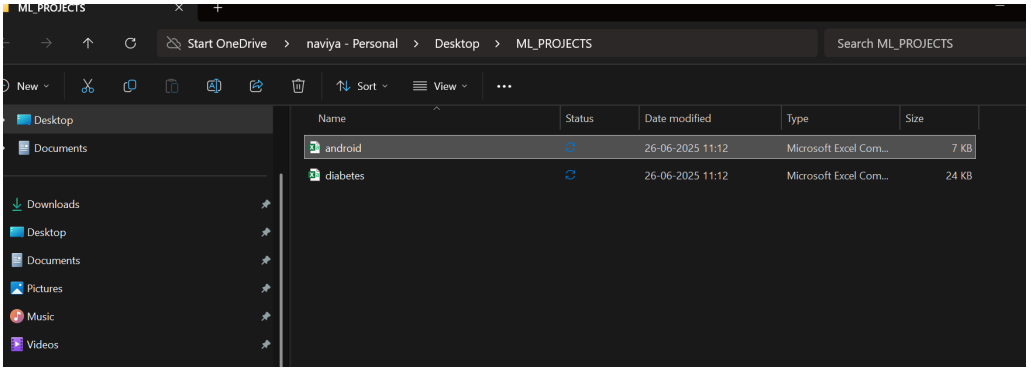
- Key Pair (.pem file)
- Security Group (allow SSH or HTTP)

3. Launch → Copy Public IP
4. Connect via SSH

🔹 4. AWS Lambda







Use: Run code without managing servers (serverless)

🔧 **Steps to Use:**

1. AWS Console → Lambda → Create Function
2. Choose “Author from Scratch”
3. Set:
    - Function Name
    - Runtime (e.g., Python 3.11, Node.js 18.x)
4. Paste your code inside inline editor
5. Add trigger (API Gateway / S3 / EventBridge etc.)
6. Deploy and test

🗃️ DATABASE SERVICES

🔹 5. Amazon RDS (Relational Database Service)

Use: Managed databases (MySQL, PostgreSQL, Oracle, etc.)

🔧 **Steps to Use:**

1. AWS Console → RDS → Create Database
2. Choose Engine (e.g., MySQL)
3. Set DB instance size, credentials, storage
4. Enable public access (if needed)
5. Launch DB → Copy endpoint
6. Connect via any SQL tool (e.g., MySQL Workbench)

🔸 Bonus: DynamoDB (NoSQL Database)

Use: Fast, scalable key-value store

🔧 Steps to Use:

1. AWS Console → DynamoDB → Create Table
2. Set:
    - Table name
    - Primary Key
3. Create → Add data via console or APIs.

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Output :