HOST DYNAMIC WEBSITE IN EC2

Step 1: Set Up an EC2 Instance

- 1. Log in to AWS Management Console:
 - Navigate to the <u>EC2 Dashboard</u>.
- 2. Launch a New EC2 Instance:
 - Click on "Launch Instance."
 - Choose an Amazon Machine Image (AMI). For simplicity, select the latest Amazon Linux 2 AMI (Free Tier eligible).
 - Choose an instance type (e.g., t2.micro for Free Tier).
 - Click "Next" and configure instance details as needed (default options are fine for a basic setup).
 - Click "Next" until you reach the "Configure Security Group" page.
- 3. Configure Security Group:
 - Add the following rules to allow SSH and HTTP/HTTPS access:
 - SSH: Port 22, Source: My IP or anywhere (0.0.0.0/0)
 - HTTP: Port 80, Source: Anywhere (0.0.0.0/0)
 - HTTPS: Port 443, Source: Anywhere (0.0.0.0/0)
 - Click "Review and Launch."

4. Launch the Instance:

- Review the instance details, then click "Launch."
- Select an existing key pair or create a new one (you'll need this key to SSH into your instance).
- Click "Launch Instances."

5. Connect to Your EC2 Instance:

- Once your instance is running, click "View Instances."
- Select your instance, click "Connect," and follow the instructions to SSH into your EC2 instance.

Step 2: Install Apache package

- 1. sudo apt-get install apache2 -y
- 2. cd /var/www/html/
- 3. sudo systemctl enable httpd

Step 7: Test Your Application

1. Access Your Application:

- Open your web browser and navigate to your EC2 instance's public IP or domain name.
- 2. Verify Your Application is Running:
 - You should see your application running successfully.

Optional: Set Up a Domain and SSL

- Register a Domain: Use AWS Route 53 or any domain registrar to register a domain name.
- Point Domain to EC2 Instance: Update DNS records to point your domain to the public IP of your EC2 instance.
- Set Up SSL with Let's Encrypt: Use Certbot to set up SSL certificates for your domain.