**Step 1: Launch an EC2 Instance**

1. **Sign in to the AWS Management Console** and go to the **EC2 Dashboard**.
2. **Launch a new EC2 instance:**
   * Choose an **Amazon Machine Image (AMI)**: Select a Linux-based AMI like **Amazon Linux 2** or **Ubuntu**.
   * Choose an **Instance Type**: For a basic website, a **t2.micro** (eligible for the free tier) should work well for low traffic.
   * **Configure Instance**: Keep the default settings or modify as needed (e.g., choose your VPC and subnet).
   * **Add Storage**: You can go with the default 8 GB EBS volume, or customize it based on your needs.
   * **Configure Security Group**: Create a new security group with rules:
     + **Port 22 (SSH)**: To access the instance (only allow access from trusted IPs).
     + **Port 80 (HTTP)**: To allow web traffic.
     + Optionally, add **Port 443 (HTTPS)** if you plan to use SSL.
   * **Review and Launch**: Download your **.pem key** to connect to the instance.

**Step 2: Connect to Your EC2 Instance**

1. **SSH into the EC2 instance** (for Linux-based EC2):

**Step 3: Install a Web Server (Apache or Nginx)**

1. **Install Apache** (on Amazon Linux 2):
   * On Amazon Linux 2

**sudo yum update -y**

**sudo yum install httpd -y**

1. Create **index.html** page and add below code:

**<html><body><h1>webserver 01</body></html>**

1. Start Apache Web Server:

**sudo service httpd start**

1. Verify
   * Open your web browser and enter the EC2 **public IP**. You should see the **webserver 01** if the installation was successful.

