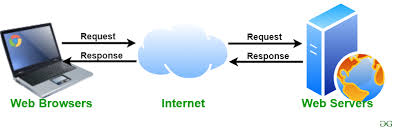
**Mini Project Students:** **How to create and test a web server in AWS**



1. **Sign in to AWS Management Console**: If you don’t have an account, you’ll need to create one.
2. **Launch an EC2 instance**:
   * Go to the EC2 dashboard and click ‘Launch Instance’.
   * Choose an Amazon Machine Image (AMI) like Amazon Linux 2 or Ubuntu Server.
   * Select an instance type (e.g., t2.micro for free tier eligible).
   * Configure instance details as default for a simple web server.
   * Add storage if needed, the default SSD should be sufficient for a basic web server.
   * Add tags, like ‘Name’ with the value ‘Web Server’.
   * Configure Security Group to allow HTTP (port 80) and HTTPS (port 443) traffic.
   * Review and launch the instance.
3. **Connect to your instance**:
   * After the instance is running, connect to it using SSH with the key pair you specified during setup.
4. **Install a Web Server**:
   * For Amazon Linux 2 or Ubuntu Server, update packages first.
   * sudo yum update -y # For Amazon Linux
   * sudo apt-get update # For Ubuntu
   * Install Apache Web Server.
   * sudo yum install -y httpd # For Amazon Linux
   * sudo apt-get install -y apache2 # For Ubuntu
   * Start the web server service.
   * sudo systemctl start httpd # For Amazon Linux
   * sudo systemctl start apache2 # For Ubuntu
   * Enable the web server to start on boot.
   * sudo systemctl enable httpd # For Amazon Linux
   * sudo systemctl enable apache2 # For Ubuntu
5. **Deploy your website**:
   * You can now place your website files in the web server’s root directory (/var/www/html/).
6. **Test your website**:
   * Open a browser and navigate to your EC2 instance’s public IP address or public DNS name.

Remember, this is a basic setup. Depending on your needs, you might want to configure additional options like databases, domain names, SSL/TLS certificates, etc.