**Step 1: Create an AWS Account**

1. Go to the AWS website: <https://aws.amazon.com/>
2. Click on "Create a Free Account."
3. Follow the prompts to create your account (you will need a credit card for billing purposes).
4. Once your account is created, log in to the AWS Management Console.

**Step 2: Launch an EC2 t2.micro Instance**

1. In the AWS Management Console, search for **EC2** in the search bar and select **EC2**.
2. In the EC2 Dashboard, click on **Launch Instance**.
3. Select the **Amazon Machine Image (AMI)**:
   1. Choose the **Amazon Linux 2 AMI** (free tier eligible).
4. Select the **t2.micro** instance type (free tier eligible).
5. Click **Next: Configure Instance Details** and leave the default configurations .
6. Click **Next: Add Storage** (the default 8 GB is fine for this demo).
7. Click **Next: Add Tags** (optional).
8. Click **Next: Configure Security Group**:
   1. Choose **Create a new security group** and add the following inbound rules:
      1. HTTP: TCP, port 80, source: Anywhere (0.0.0.0/0)
      2. SSH: TCP, port 22, source: Anywhere (0.0.0.0/0)
9. Click **Review and Launch**, and then click **Launch**.
10. Select **Create a new key pair** and download the .pem file (this will be used to SSH into your EC2 instance).
11. Click **Launch Instances**.

Once the instance is launched, you can see it in the **Instances** section of the EC2 dashboard.

**Step 3: Connect to the EC2 Instance**

1. Go to the **Instances** section of the EC2 dashboard.
2. Select your instance and note the **Public IP**.
3. Open a terminal or command prompt on your computer.
4. Use the following command to SSH into your EC2 instance:

ssh -i /path/to/your-key.pem ec2-user@<your-public-ip>

1. Replace /path/to/your-key.pem with the path to your downloaded .pem file and <your-public-ip> with the public IP of your instance.

**Step 4: Install LAMP Stack (Linux, Apache, MySQL, PHP)**

1. Update the package manager:

#sudo yum update -y

1. Install Apache:

#sudo yum install -y httpd

1. Start Apache and enable it to start on boot:

#sudo systemctl start httpd

#sudo systemctl enable httpd

1. **Install PHP:**

#sudo yum install -y php php-mysqlnd

1. **Install MySQL (MariaDB**):

#sudo yum install -y mariadb-server

#sudo systemctl start mariadb

#sudo systemctl enable mariadb

1. **Configure MySQL:**

#sudo mysql\_secure\_installation

Follow the prompts to set up a root password and secure your MySQL installation.

**Step 5: Deploy PHP Code**

1. Create a PHP file to test the deployment:

#sudo echo "<?php phpinfo(); ?>" > /var/www/html/info.php

1. Open your browser and go to the following URL:

http://<your-public-ip>/info.php

1. This should display the PHP information page, confirming that your LAMP stack is working.

**Step 6: Clean Up (Optional)**

1. After testing, remember to delete your EC2 instance and release any resources you created in AWS to avoid ongoing charges.
2. Go to the **Instances** section of the EC2 dashboard, select your instance, and click **Terminate**.

**Next Steps:**

* You can replace info.php with your own PHP code by uploading or editing files in /var/www/html/.
* If you'd like to use MySQL with PHP, you can create a database and connect to it using PHP's MySQL functions.