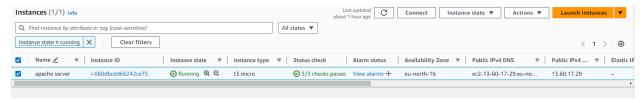
Part 1: Setting Up LAMP Stack:

1.Launch EC2 Instance:



3.Install Components:

Install Apache, MySQL, and PHP packages using package manager commands.

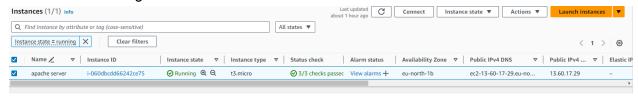
```
ubuntu@ip-172-31-40-112:~$ sudo systemctl start apache2
ubuntu@ip-172-31-40-112:~$ sudo systemctl enable apache2
Synchronizing state of apache2.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
executing: /usr/lib/systemd/systemd-sysv-install enable apache2
ubuntu@ip-172-31-40-112:~$ sudo systemctl status apache2
  apache2.service - The Apache HTTP Server
     Loaded: loaded (/wsr/lib/systemd/system/apache/.service; enabled; preset: enabled)
     Active: active (running) since Sat 2024-08-24 12:47:33 UTC; 5min ago
      Docs: https://httpd.apache.org/docs/2.4/
   Main PID: 2903 (apache2)
      Tasks: 55 (limit: 1078)
     Memory: 5.5M (peak: 5.6M)
       CPU: 57ms
     CGroup: /system.slice/apache2.service
              —2903 /usr/sbin/apache2 -k start
—2905 /usr/sbin/apache2 -k start
              L2906 /usr/sbin/apache2 -k start
Aug 24 12:47:33 ip-172-31-40-112 systemd[1]: Starting apache2.service - The Apache HTTP Server...
Aug 24 12:47:33 ip-172-31-40-112 systemd[1]: Started apache2.service - The Apache HTTP Server.
```

```
ubuntu@ip-172-31-40-112:~$ sudo systemctl start mysql
ubuntu@ip-172-31-40-112:~$ sudo systemctl enable mysql
Synchronizing state of mysql.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable mysql
ubuntu@ip-172-31-40-112:~$ sudo systemctl status mysql
 mysql.service - MySQL Community Server
    Loaded: loaded (/wsr/lib/systemd/system/mysql.service; enabled; preset: enabled)
    Active: active (running) since Sat 2024-08-24 12:57:02 UTC; 5min ago
  Main PID: 4055 (mysqld)
    Status: "Server is operational"
     Tasks: 37 (limit: 1078)
    Memory: 353.4M (peak: 369.6M)
      CPU: 3.116s
    CGroup: /system.slice/mysql.service
Aug 24 12:57:01 ip-172-31-40-112 systemd[1]: Starting mysql.service - MySQL Community Server...
Aug 24 12:57:02 ip-172-31-40-112 systemd[1]: Started mysql.service - MySQL Community Server.
```

Part 2: Setting Up LEMP Stack:

1.Connect to EC2 Instance:

SSH into the existing AWS EC2 instance



2.Install Components:

Install Nginx, MySQL, and PHP packages using package manager commands.

```
ubuntu@ip-172-31-40-112:\squares sudo systemctl enable nginx
Synchronizing state of nginx.service with SysV service script with /usr/lib/systemd/systemd-sysV-install.
Executing: /usr/lib/systemd/systemd-sysV-install enable nginx
ubuntu@ip-172-31-40-112:\squares sudo systemctl status nginx
' nginx.service - A high performance web server and a reverse proxy server
    Loaded: loaded (/ugr/lib/systemd/systemd/systemd/uginx.service; enabled; preset: enabled)
    Active: failed (Result: exit-code) since Sat 2024-08-24 13:34:02 UTC; 55s ago
    Docs: mauinginx(8).
    CPU: Idms

Aug 24 13:34:00 ip-172-31-40-112 nginx[11661]: nginx: [emerg] bind() to 0.0.0.0:80 failed (98: Address already in use)
Aug 24 13:34:00 ip-172-31-40-112 nginx[11661]: nginx: [emerg] bind() to [::]:80 failed (98: Address already in use)
Aug 24 13:34:01 ip-172-31-40-112 nginx[11661]: nginx: [emerg] bind() to [::]:80 failed (98: Address already in use)
Aug 24 13:34:01 ip-172-31-40-112 nginx[11661]: nginx: [emerg] bind() to [::]:80 failed (98: Address already in use)
Aug 24 13:34:01 ip-172-31-40-112 nginx[11661]: nginx: [emerg] bind() to [::]:80 failed (98: Address already in use)
Aug 24 13:34:01 ip-172-31-40-112 nginx[11661]: nginx: [emerg] bind() to [::]:80 failed (98: Address already in use)
Aug 24 13:34:01 ip-172-31-40-112 nginx[11661]: nginx: [emerg] bind() to [::]:80 failed (98: Address already in use)
Aug 24 13:34:01 ip-172-31-40-112 nginx[11661]: nginx: [emerg] bind() to [::]:80 failed (98: Address already in use)
Aug 24 13:34:02 ip-172-31-40-112 nginx[11661]: nginx: [emerg] bind() to [::]:80 failed (98: Address already in use)
Aug 24 13:34:02 ip-172-31-40-112 nginx[11661]: nginx: [emerg] bind() to [::]:80 failed (98: Address already in use)
Aug 24 13:34:02 ip-172-31-40-112 nginx[11661]: nginx: [emerg] bind() to [::]:80 failed (98: Address already in use)
Aug 24 13:34:02 ip-172-31-40-112 nginx[11661]: nginx: [emerg] bind() to [::]:80 failed (98: Address already in use)
Aug 24 13:34:02 ip-172-31-40-112 nginx[11661]: nginx: [emerg] bind
```

```
ubuntu@ip=172-31-40-112:~$ sudo systemctl start mysql
ubuntu@ip=172-31-40-112:~$ sudo systemctl enable mysql
Synchronizing state of mysql.service with SysV service script with /usr/lib/systemd/systemd-sysV-install.
Executing: /usr/lib/systemd/systemd-sysV-install enable mysql
ubuntu@ip=172-31-40-112:~$ sudo systemctl status mysql
* mysql.service - MySQL Community Server

Loaded: loaded (/usr/lib/systemd/system/uysql.service; enabled; preset: enabled)
Active: active (running) since Sat 2024-08-24 12:57:02 UTC; 5min ago
Main PID: 4055 (mysqld)
Status: "Server is operational"

Tasks: 37 (limit: 1078)
Memory: 353.4M (peak: 369.6M)

CPU: 3.1168
CGroup: /system.slice/mysql.service
L4055 /usr/sbin/mysqld

Aug 24 12:57:01 ip=172-31-40-112 systemd[1]: Starting mysql.service - MySQL Community Server...
Aug 24 12:57:02 ip=172-31-40-112 systemd[1]: Started mysql.service - MySQL Community Server.
```