Networking & System Administration Lab LAMP installation			
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Apache Installation

Steps

1. Update your system

Update the system using command sudo apt update

2. Install Apache using apt:

Install apache using the command sudo apt install apache2

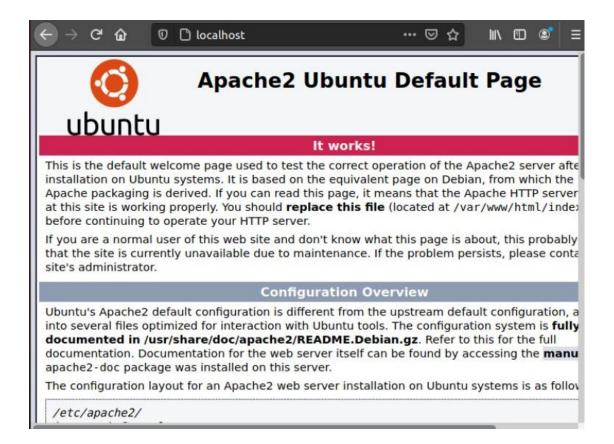
3. Start apache

Using the command sudo service apache2 start

4. Confirm that Apache is now running with the following command:

Check the status of apache sudo systemctl status apache2

```
ashish@ubuntu:~/Desktop$ sudo systemctl status appache2
[sudo] password for ashish:
Unit appache2.service could not be found.
ashish@ubuntu:~/Desktop$ sudo systemctl status apache2
apache2.service - The Apache HTTP Server
     Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor prese>
     Active: active (running) since Wed 2021-09-29 05:38:37 PDT; 2min 27s ago
       Docs: https://httpd.apache.org/docs/2.4/
    Process: 856 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUC>
   Main PID: 1078 (apache2)
      Tasks: 6 (limit: 2273)
     Memory: 18.9M
     CGroup: /system.slice/apache2.service
               -1078 /usr/sbin/apache2 -k start
               -1084 /usr/sbin/apache2 -k start
               -1085 /usr/sbin/apache2 -k start
               -1086 /usr/sbin/apache2 -k start
               -1087 /usr/sbin/apache2 -k start
               -1088 /usr/sbin/apache2 -k start
Sep 29 05:38:28 ubuntu systemd[1]: Starting The Apache HTTP Server...
Sep 29 05:38:36 ubuntu apachectl[892]: AH00558: apache2: Could not reliably det>
Sep 29 05:38:37 ubuntu systemd[1]: Started The Apache HTTP Server.
lines 1-19/19 (END)
```



Maria dB Installation

Steps

- 1. Install Maria dB using the command **sudo apt install mariadb-server mariadb- client**
- 2. Check the status of the Maria dB using sudo systemctl status mysql

```
ashish@ubuntu:~/Desktop$ sudo systemctl start mysql
ashish@ubuntu:~/Desktop$ sudo systemctl status mysql
    mariadb.service - MariaDB 10.3.31 database server
        Loaded: loaded (/lib/systemd/system/mariadb.service; enabled; vendor prese

Active: active (running) since Wed 2021-09-29 05:38:45 PDT; 4min 19s ago
        Docs: man:mysqld(8)
        https://mariadb.com/kb/en/library/systemd/
    Process: 857 ExecStartPre=/usr/bin/install -m 755 -o mysql -g root -d /var/

Process: 871 ExecStartPre=/bin/sh -c systemctl unset-environment _WSREP_STA

Process: 873 ExecStartPre=/bin/sh -c [ ! -e /usr/bin/galera_recovery ] && V

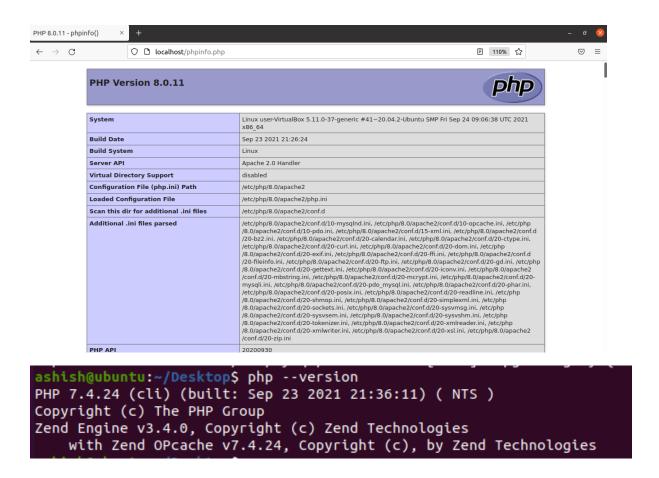
Process: 1242 ExecStartPost=/bin/sh -c systemctl unset-environment _WSREP_S

Process: 1244 ExecStartPost=/etc/mysql/debian-start (code=exited, status=0/

Main PID: 965 (mysqld)
        Status: "Taking your SQL requests now..."
        Tasks: 31 (limit: 2273)
```

Installing PHP and commonly used modules

- 1. Install php using sudo apt install php libapache2-mod-php php-opcache php-cli php-gd php-curl php-mysql
- 2. Restart apache2 using the command sudo systemctl restart apache2
- 3. Check the php installation by using localhost/phpinfo.php



Installing phpmyadmin

- 1. Install phpmyadmin using sudo apt install phpmyadmin php-mbstring php-zip php-gd php-json php-curl
- 2. Restart apache2 sudo systemctl restart apache2
- 3. Check phpmyadmin by opening a browser and typing http://localhost/phpmyadmin

