

ASSIGNMENT

Submitted by:

Jisha Chacko

Rollno:44

S2RMCA:A batch

Install Apache

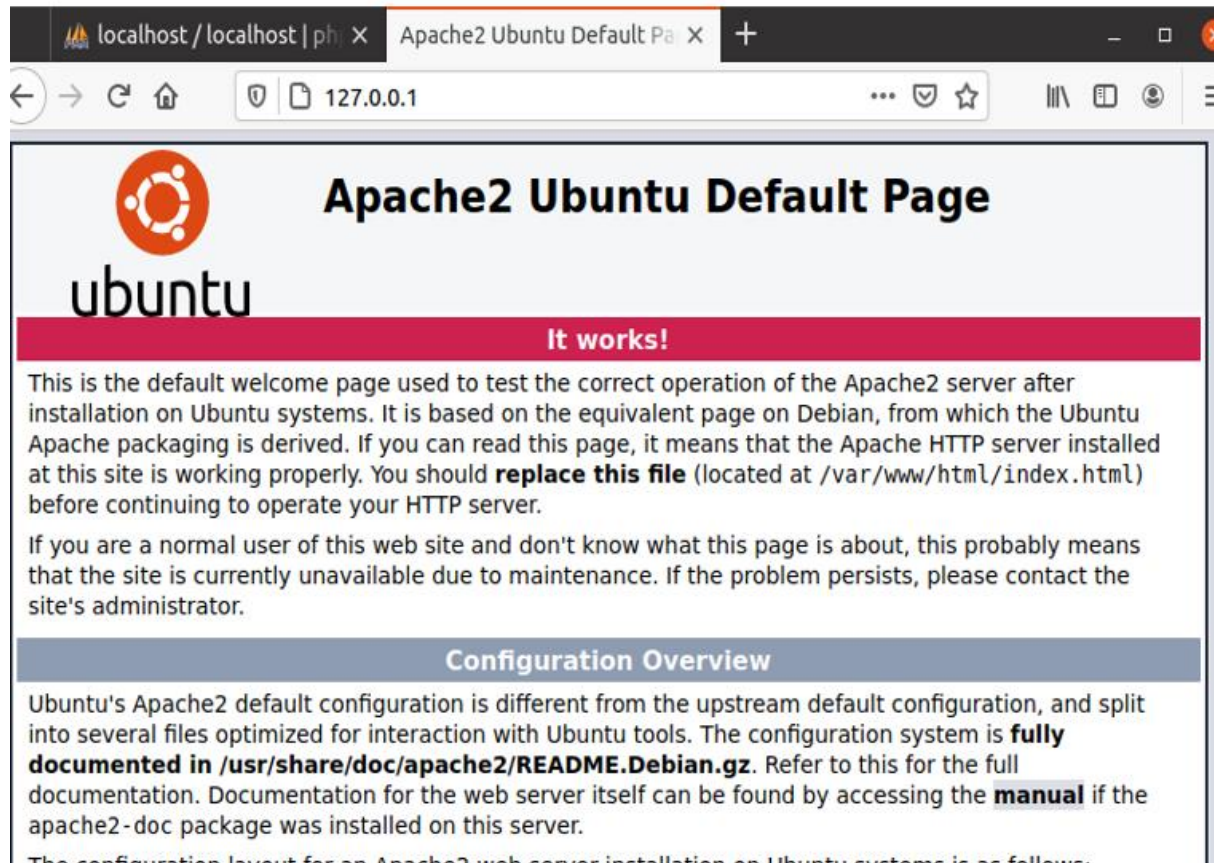
- Update your system
sudo apt update
- Install Apache using apt:
sudo apt install apache2
- sudo systemctl status apache2
- sudo systemctl start apache2

```
jisha@jisha-VirtualBox:~$ sudo systemctl start apache2
[sudo] password for jisha:
jisha@jisha-VirtualBox:~$ sudo systemctl status apache2
[sudo] password for jisha:
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor prese
   Active: active (running) since Wed 2021-09-29 14:01:28 IST; 26min ago
     Docs: https://httpd.apache.org/docs/2.4/
    Main PID: 749 (apache2)
      Tasks: 6 (limit: 1376)
     Memory: 10.5M
    CGroup: /system.slice/apache2.service
            └─749 /usr/sbin/apache2 -k start
              └─783 /usr/sbin/apache2 -k start
                └─784 /usr/sbin/apache2 -k start
                  └─785 /usr/sbin/apache2 -k start
                    └─786 /usr/sbin/apache2 -k start
                      └─787 /usr/sbin/apache2 -k start

Sep 29 14:01:20 jisha-VirtualBox systemd[1]: Starting The Apache HTTP Server...
Sep 29 14:01:27 jisha-VirtualBox apachectl[645]: AH00558: apache2: Could not re
Sep 29 14:01:28 jisha-VirtualBox systemd[1]: Started The Apache HTTP Server.
lines 1-18/18 (END)
```

- Once installed, test by accessing your server's IP in your browser:

http://youripaddress



Install mariadb

- `sudo apt install mariadb-server mariadb-client`

Check mariadb Installation

- `sudo systemctl status mysql`

```
jisha@jisha-VirtualBox:~$ 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 15:07:57 IST; 3min 33s ago
     Docs: man:mysqld(8)
           https://mariadb.com/kb/en/library/systemd/
   Process: 581 ExecStartPre=/usr/bin/install -m 755 -o mysql -g root -d /var/
   Process: 600 ExecStartPre=/bin/sh -c systemctl unset-environment _WSREP_STA
   Process: 606 ExecStartPre=/bin/sh -c [ ! -e /usr/bin/galera_recovery ] && V
   Process: 829 ExecStartPost=/bin/sh -c systemctl unset-environment _WSREP_ST
   Process: 831 ExecStartPost=/etc/mysql/debian-start (code=exited, status=0/S
 Main PID: 689 (mysqld)
    Status: "Taking your SQL requests now..."
     Tasks: 31 (limit: 1376)
    Memory: 40.8M
    CGroup: /system.slice/mariadb.service
            └─689 /usr/sbin/mysqld

Sep 29 15:07:48 jisha-VirtualBox systemd[1]: Starting MariaDB 10.3.31 database
Sep 29 15:07:53 jisha-VirtualBox mysqld[689]: 2021-09-29 15:07:53 0 [Note] /usr
Sep 29 15:07:57 jisha-VirtualBox systemd[1]: Started MariaDB 10.3.31 database s
Sep 29 15:07:57 jisha-VirtualBox /etc/mysql/debian-start[833]: Upgrading MySQL
```

Install PHP and commonly used modules


- `sudo apt install php libapache2-mod-php php-openssl php-cli php-gd php-curl php-mysql`
- Restart apache2
- `sudo systemctl restart apache2`

Now you can check php installation

`sudo echo "<?php phpinfo(); ?>" | sudo tee -a /var/www/html/phpinfo.php > /dev/null`

```
jisha@jisha-VirtualBox:~$ php -v
PHP 7.4.3 (cli) (built: Jul 5 2021 15:13:35) ( NTS )
Copyright (c) The PHP Group
Zend Engine v3.4.0, Copyright (c) Zend Technologies
    with Zend OPcache v7.4.3, Copyright (c), by Zend Technologies
jisha@jisha-VirtualBox:~$
```

Open a browser

<div> <div>PHP Version 7.4.3</div>  </div>	
System	Linux ubuntu 5.8.0-43-generic #49~20.04.1-Ubuntu SMP Fri Feb 5 09:57:56 UTC 2021 x86_64
Build Date	Jul 5 2021 15:13:35
Server API	Apache 2.0 Handler
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc/php/7.4/apache2
Loaded Configuration File	/etc/php/7.4/apache2/php.ini
Scan this dir for additional .ini files	/etc/php/7.4/apache2/conf.d
Additional .ini files parsed	/etc/php/7.4/apache2/conf.d/10-mysqlnd.ini, /etc/php/7.4/apache2/conf.d/10-opcache.ini, /etc/php/7.4/apache2/conf.d/10-pdo.ini, /etc/php/7.4/apache2/conf.d/15-xml.ini, /etc/php/7.4/apache2/conf.d/20-bz2.ini, /etc/php/7.4/apache2/conf.d/20-calendar.ini, /etc/php/7.4/apache2/conf.d/20-ctype.ini, /etc/php/7.4/apache2/conf.d/20-curl.ini, /etc/php/7.4/apache2/conf.d/20-dom.ini, /etc/php/7.4/apache2/conf.d/20-exif.ini, /etc/php/7.4/apache2/conf.d/20-ffi.ini, /etc/php/7.4/apache2/conf.d/20-fileinfo.ini, /etc/php/7.4/apache2/conf.d/20-ftp.ini, /etc/php/7.4/apache2/conf.d/20-gd.ini, /etc/php/7.4/apache2/conf.d/20-gettext.ini, /etc/php/7.4/apache2/conf.d/20-iconv.ini, /etc/php/7.4/apache2/conf.d/20-json.ini, /etc/php/7.4/apache2/conf.d/20-mbstring.ini, /etc/php/7.4/apache2/conf.d/20-mysqli.ini, /etc/php/7.4/apache2/conf.d/20-pdo_mysql.ini, /etc/php/7.4/apache2/conf.d/20-phar.ini, /etc/php/7.4/apache2/conf.d/20-posix.ini, /etc/php/7.4/apache2/conf.d/20-readline.ini, /etc/php/7.4/apache2/conf.d/20-sockets.ini, /etc/php/7.4/apache2/conf.d/20-sysvmsg.ini, /etc/php/7.4/apache2/conf.d/20-sysvsem.ini, /etc/php/7.4/apache2/conf.d/20-sysvshm.ini, /etc/php/7.4/apache2/conf.d/20-tokenizer.ini, /etc/php/7.4/apache2/conf.d/20-xmlrpc.ini, /etc/php/7.4/apache2/conf.d/20-xsl.ini, /etc/php/7.4/apache2/conf.d/20-zip.ini, /etc/php/7.4/apache2/conf.d/20-zlib.ini

Install phpmyadmin

- `sudo apt install phpmyadmin php-mbstring php-zip php-gd php-json php-curl`

(It asks for webserver select apache2, select db-configuration and set password)

Restart apache2

- `sudo systemctl restart apache2`

```
jlsna@jlsna-VirtualBox:~$ sudo mysql -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 50
Server version: 10.3.31-MariaDB-0ubuntu0.20.04.1 Ubuntu 20.04

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
```

```
MariaDB [(none)]> create database ammu;
Query OK, 1 row affected (0.410 sec)
```

```

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| ammu     |
| information_schema |
| mysite   |
| mysql    |
| performance_schema |
| phpmyadmin |
+-----+
6 rows in set (0.367 sec)

MariaDB [(none)]> exit
Bye
jisha@jisha-VirtualBox:~$

```

Check phpmyadmin

