ASSIGNMENT

Submitted by:

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Rollno:44

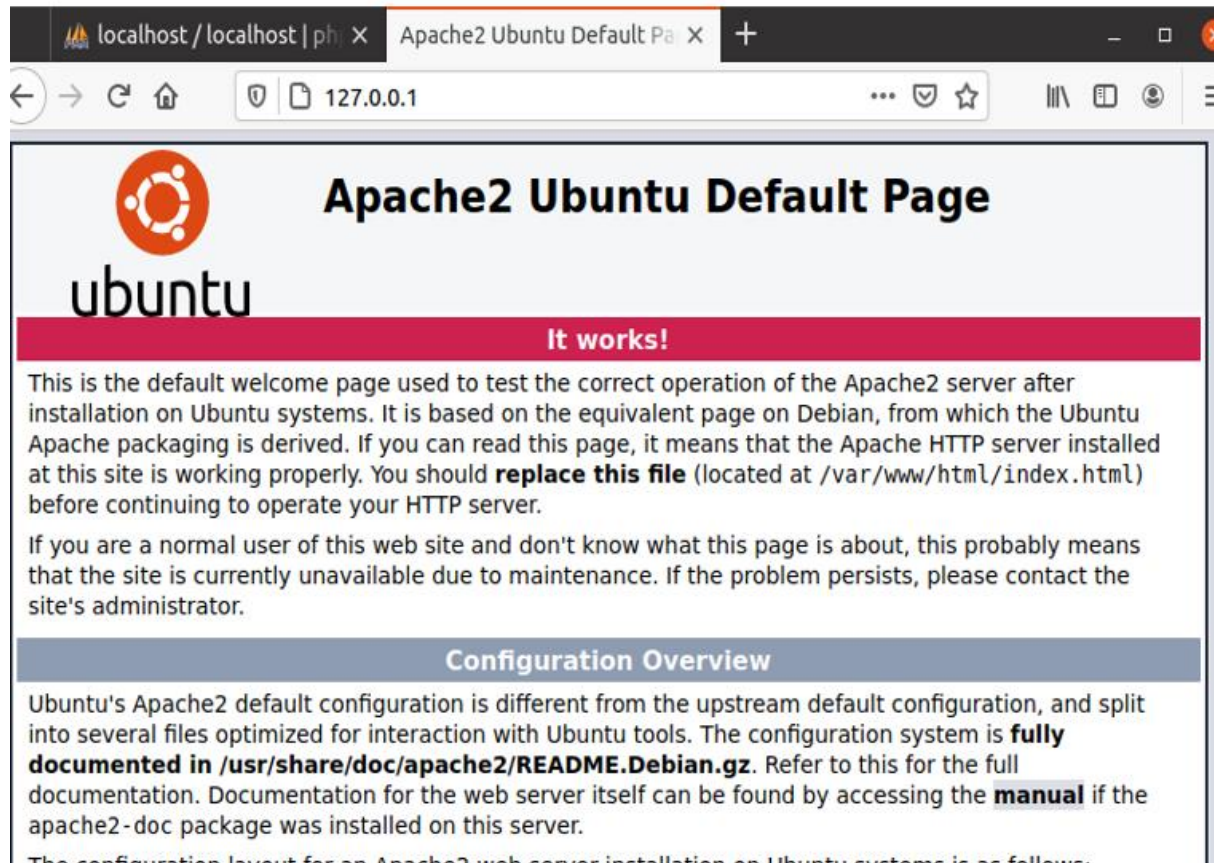S2RMCA:A batch

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-opcache 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

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


```
jisha@jisha-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)
```

Check phpmyadmin