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# Lab 1 Cloud Infrastructure Management Date: 05-01-2024

#### CARRY OUT AN EXPERIMENT TO CREATE AND DEMONSTRATE THE WORKING STATIC WEB SERVER.

1.Install apache2 and check the status with below commands

- sudo apt update
- sudo apt install apache2
- sudo ufw app list
- sudo ufw allow 'Apache'
- sudo systemctl status apache2

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2.To obtain system IP type below command

hostname -I

172.25.187.85

3.Start the apache server. Open chrome tab and enter the system ip. Default page will load

4.To start reload and stop use below commands

- sudo systemctl stop apache2
- sudo systemctl start apache2
- sudo systemctl restart apache2
- sudo systemctl reload apache2



The default Ubuntu document root is /var/www/html. You can make your own virtual hosts under

#### Reporting Problems

Please use the ubuntu-bug tool to report bugs in the Apache2 package with Ubuntu. However, check existing bug reports before reporting a new bug.

Please report bugs specific to modules (such as PHP and others) to their respective packages, not to the web server itself.

5.To create new static page create new folder with domain name

sudo mkdir /var/www/172.25.187.85

6.Create index.html in the newly created folder sudo nano /var/www/172.25.187.85/index.html

<html>

<head>

<title>Welcome to your\_domain!</title>

</head>

```
<br/><bddy><h1>Success! The your_domain virtual host is working!</h1></body></html>
```

# 7. Create new configuration file

```
sudo nano /etc/apache2/sites-available/172.25.187.85.conf
<VirtualHost *:80>
ServerAdmin webmaster@localhost
ServerName 172.25.187.85
ServerAlias www. 172.25.187.85
DocumentRoot /var/www/172.25.187.85
ErrorLog ${APACHE_LOG_DIR}/error.log
CustomLog ${APACHE_LOG_DIR}/access.log combined
```

# 8. Disable default conf

sudo a2dissite 000-default.conf

</VirtualHost>

#### 9.Enable 172.25.187.85.conf

- sudo a2ensite 172.25.187.85.conf
- sudo apache2ctl configtest

# 10.Restart apache

sudo systemctl restart apache2

