FEDERAL TECHNICAL & VOCATIONAL EDUCATION & TRAINING INSTITUTE (TVETI) ADDIS ABABA, ETHIOPIA MASTER OF SCIENCE IN ICT TEACHERS EDUCATION

Operation Sheet 3.2 : Installing Apache Web Server in Linux Server



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ICT 543 - SERVER ADMINISTRATION

Installing Apache Web Server in Ubuntu Linux Server

Objectives: After the end of the activity, the students will be able to:

- Install and Configure Apache Web Server in Linux
- Create Website and Deploy it in Apache Web Server
- ➢ Test the configuration

Procedure:

Step 1: Open VM Ware Ubuntu Linux Server, and now Login on the shell on the server as user your created during installation. The username may differ if you have chosen a different name during setup.



Step 2: Install the Apache Web Server using the code below:

```
sudo apt-get update
```

sudo apt-get install apache2

Before we can test Apache, we need to modify our firewall to allow outside access to the default web ports. Assuming that you followed the instructions in the prerequisites, you should have a UFW firewall configured to restrict access to your server.

sudo ufw app list

You should get a listing of the application profiles:

Output

Available applications:

Apache

Apache Full

Apache Secure OpenSSH

As you can see, there are three profiles available for Apache:

- Apache: This profile opens only port 80 (normal, unencrypted web traffic)
- Apache Full: This profile opens both port 80 (normal, unencrypted web traffic) and port 443 (TLS/SSL encrypted traffic)
- Apache Secure: This profile opens only port 443 (TLS/SSL encrypted traffic)

Step 4: Allow Apache Full to open port 80 and port 443

For our purposes, we will allow incoming traffic for the Apache Full profile by typing:

sudo ufw allow 'Apache Full'

Step 5: Verify the status of ufw

You can verify the change by typing:

sudo ufw status

You should see HTTP traffic allowed in the displayed output:

Output

Status: active

То	Action From	
OpenSSH	ALLOW	Anywhere
Apache Full	ALLOW	Anywhere
OpenSSH (v6) Apache Full (v6)	ALLOW ALLOW	Anywhere (v6) Anywhere (v6)

Step 6: Check if Apache Web Server is running

When you have your server's IP address or domain, enter it into your **browser's address bar** (**This is through your Windows 7**/10 Client)

http://server_domain_or_IP or http://10.0.4.242

You should see the default Ubuntu 16.04 Apache web page, which should look something like this:



Step 7: Go to the HTML Directory

Type the following command to go HTML Directory

Cd /var/www

Step 8: Create an HTML Page by typing the command:

sudo nano home.html

Once the editor is open type the following HTML code:

<html> <body> <h1>Welcome to my Apache Web Server</h1> Amasedgenalehu </body> </html>

Step 9: Test the HTML page

When you have your server's IP address or domain, enter it into your **browser's address bar** (**This is through your Windows 7**/10 Client)

http://10.0.4.242/home.html

Step 10: Starting, Stoping, and Restarting Apache Web Server

sudo /etc/init.d/apache2 start sudo /etc/init.d/apache2 stop sudo /etc/init.d/apache2 restart