## Lab 1

## STEPS TO INSTALL APACHE WEB SERVER IN LINUX

```
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
sahil@18cfbe74344a5b9:~$ grep -E '^(VERSION|NAME)=' /etc/os-release
NAME="Ubuntu"
VERSION="24.04.1 LTS (Noble Numbat)"
```

```
sahil@18cfbe74344a5b9:~$ sudo apt update
[sudo] password for sahil:
Hit:1 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
7 packages can be upgraded. Run 'apt list --upgradable' to see them.
```

```
Reading package lists...Done
Reading package lists...Done
Reading state information...Done
Calculating upgrade...Done
The following NEW packages will be installed:
ethtool
The following very packages will be installed:
ethtool
The following upgrades...Done
The following upgrades have been deferred due to phasing:
libpolkit-agent-in= libpolkit-gobject-i-op polkitd
The following packages will be upgraded:
liboralit-agent-in= libpolkit-agent-polkitd
The following packages will be upgraded:
liboralit-agent-in= libpolkit-agent-in= libpolk-agent-in= libpolk-agent-in= libpolk-agent-in= libpolk-agent-in= libpolk-agent-in= libpolk-agent-in= libpolk-agent-in= libpolk-
```

```
Reading package lists... Done

Building dependency tree... Done

Reading state information... Donebuntu noble-updates/main amd64 netplan-generator amd64 1.1.1-1-wubuntu24.04.1 [60.8 kB]

The following additional packages will be installed:/main amd64 python3-netplan amd64 1.1.1-1-wubuntu24.04.1 [24.3 kB]

apache2-bin apache2-dats apache2-utils libaprit64 libaprutil-10ds-sqlite3 libaprutil-10dap libaprutilit64

liblus5.4-0 ssl-cert buntu.com/wbuntu noble-updates/main amd64 thibartplan1 amd64 1.1.1-1-wubuntu24.04.1 [68.5 kB]

Suggested packages.eiubuntu.com/wbuntu noble-updates/main amd64 libaprutil-10dd-sqlite3 libaprutil1-10dap libaprutil164

apache2-buna pache2-suexec-pristine | apache2-suexec-custom www-browser ufw

The following NEW packages will be installed:

apache2 apache2-bin apache2-data apache2-utils libaprit64 libaprutil1-dbd-sqlite3 libaprutil1-ldap libaprutil164

liblus5.4-0 ssl-cert

8 upgraded, 10 newly installed, 0 to remove and 3 not upgraded.

Need to get 2004 kB of archives.

After this operation, 8094 kB of additional disk space will be used.

Set:1 http://archive.ubuntu.com/wbuntu noble-updates/main amd64 libaprutil164 amd64 1.7.2-3.1ubuntu0.1 [10.8 kB]

Set:2 http://archive.ubuntu.com/wbuntu noble-main amd64 libaprutil164 amd64 1.6.3-1.1ubuntu7 [91.9 kB]

Set:3 http://archive.ubuntu.com/wbuntu noble/main amd64 libaprutil1-dba-sqlite3 amd64 1.6.3-1.1ubuntu7 [91.6 kB]

Set:4 http://archive.ubuntu.com/wbuntu noble-updates/main amd64 apache2-bin amd64 2.4.58-1ubuntu8.5 [163 kB]

Set:5 http://archive.ubuntu.com/wbuntu noble-updates/main amd64 apache2-data all 2.4.58-1ubuntu8.5 [163 kB]

Set:6 http://archive.ubuntu.com/wbuntu noble-updates/main amd64 apache2-data all 2.4.58-1ubuntu8.5 [90.2 kB]

Set:8 http://archive.ubuntu.com/wbuntu noble-updates/main amd64 apache2-data all 2.4.58-1ubuntu8.5 [97.1 kB]

Set:9 http://archive.ubun
```

```
sahil@18cfbe74344a5b9:∼$ sudo systemctl enable apache2
Synchronizing state of apache2.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable apache2
```

sahil@:96:fbe74344usb9:∞\$ echo '<html><head><title>Example</title></head><body><hi>>6po</hi>This is a test.</body></html>' | sudo tee /var/www/html/test chtml>/fbed</title>Example</title></head><body><hi>>6po</hi>This is a test.</body></html>

```
sahil@18cfbe74344a5b9:~$ sudo tee /etc/httpd/conf.d/web.conf <<EOF
> <VirtualHost *:80>
> ServerName web.testingserver.com
> DocumentRoot /var/www/html/website
> DirectoryIndex index.html
> ErrorLog /var/log/httpd/example.com_error.log
> CustomLog /var/log/httpd/example.com_requests.log combined
> </VirtualHost>
> EOF
</VirtualHost *:80>
    ServerName web.testingserver.com
    DocumentRoot /var/www/html/website
    DirectoryIndex index.html
    ErrorLog /var/log/httpd/example.com_error.log
    CustomLog /var/log/httpd/example.com_requests.log combined
</VirtualHost>
```

## sahil@18cfbe74344a5b9:~\$ sudo chmod -R 755 /var/www/html/test\_website

