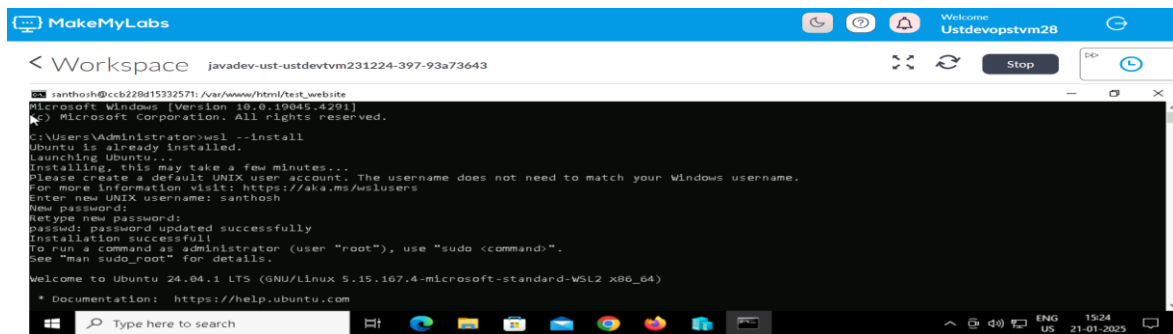


INSTALLING APACHE WEB SERVER IN LINUX

STEP 1: Installing Ubuntu using

Wsl –install command



```
MakeMyLabs
Workspace javadev-ust-ustdevvm231224-397-93a73643
santhosh@ccb228d15332571: /var/www/html/test_website
Microsoft Windows [Version 10.0.19045.4291]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Administrator>wsl --install
Ubuntu is already installed.
Launching Ubuntu...
Installing, this may take a few minutes...
Please create a default UNIX user account. The username does not need to match your Windows username.
For more information visit: https://aka.ms/wslusers
Enter new UNIX username: santhosh
New password:
Retype new password:
passwd: password updated successfully
Installation successful!
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

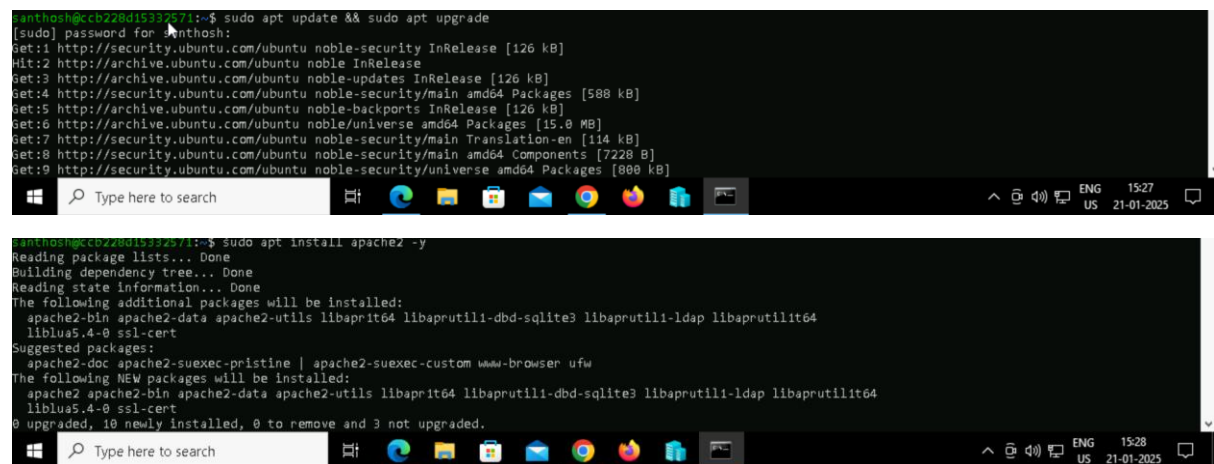
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 5.15.167.4-microsoft-standard-WSL2 x86_64)

 * Documentation:  https://help.ubuntu.com
```

STEP 2: Checking the Linux Distribution

```
santhosh@ccb228d15332571:~$ grep -E '^(VERSION|NAME)= ' /etc/os-release
NAME="Ubuntu"
VERSION="24.04.1 LTS (Noble Numbat)"
```

STEP 3: Install Apache Web Server



```
santhosh@ccb228d15332571:~$ sudo apt update && sudo apt upgrade
[sudo] password for santhosh:
Get:1 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Hit:2 http://archive.ubuntu.com/ubuntu noble InRelease
Get:3 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:4 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [588 kB]
Get:5 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:6 http://archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 MB]
Get:7 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [114 kB]
Get:8 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [7228 B]
Get:9 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [800 kB]

santhosh@ccb228d15332571:~$ sudo apt install apache2 -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils libapr1t64 libaprutil1-dbd-sqlite3 libaprutil1-ldap libaprutil1t64
  liblua5.4-0 ssl-cert
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser ufw
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils libapr1t64 libaprutil1-dbd-sqlite3 libaprutil1-ldap libaprutil1t64
  liblua5.4-0 ssl-cert
0 upgraded, 10 newly installed, 0 to remove and 3 not upgraded.
```

STEP 4: Enable the services

```
santhosh@ccb228d15332571:~$ 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
```

STEP 5: Test the server by hosting simple Website

```
santhosh@ccb228d15332571:~$ sudo mkdir /var/www/html/test_website/
santhosh@ccb228d15332571:~$ ls
```

STEP 6: Adding Index.html along with testing code

```
santhosh@ccb228d15332571:~$ echo '<html><head><title>Example</title></head><body><h1>GFG</h1><p>This is a test.</p></body></html>' | sudo tee /var/www/html/test_website/index.html
<html><head><title>Example</title></head><body><h1>GFG</h1><p>This is a test.</p></body></html>
```

STEP 7: Adding configuration file and test website we will need the apache website directory permissions.

So chown and chmod command is used.

```
santhosh@ccb228d15332571:~$ ls
santhosh@ccb228d15332571:~$ cd test_website
-bash: cd: test_website: No such file or directory
santhosh@ccb228d15332571:~$ whoami
santhosh
santhosh@ccb228d15332571:~$ pwd
/home/santhosh
santhosh@ccb228d15332571:~$ nano index.html
santhosh@ccb228d15332571:~$ cat index.html
<html><head><title>Example</title></head><body><h1>GFG</h1><p>This is a test.</p></body></html>
santhosh@ccb228d15332571:~$ sudo mkdir /var/www/html/test_website/
[sudo] password for santhosh:
mkdir: cannot create directory '/var/www/html/test_website/': File exists
santhosh@ccb228d15332571:~$ ls
index.html
santhosh@ccb228d15332571:~$ sudo mkdir /var/www/html/test_website/
mkdir: cannot create directory '/var/www/html/test_website/': File exists
santhosh@ccb228d15332571:~$ sudo chmod -R 755 /var/www/html/test_website

santhosh@ccb228d15332571:~$ sudo chown -R apache:apache /var/www/html/test_website
chown: invalid user: 'apache:apache'
santhosh@ccb228d15332571:~$ cd test_website
-bash: cd: test_website: No such file or directory
santhosh@ccb228d15332571:~$ cd /var/www/html/home
-bash: cd: /var/www/html/home: No such file or directory
santhosh@ccb228d15332571:~$ cd /var/www/html/
santhosh@ccb228d15332571:/var/www/html$ cd html
santhosh@ccb228d15332571:/var/www/html$ ls
index.html  test_website
santhosh@ccb228d15332571:/var/www/html$ rm index.html
rm: remove write-protected regular file 'index.html'?
santhosh@ccb228d15332571:/var/www/html$ ls
test_website
santhosh@ccb228d15332571:/var/www/html$ sudo rm index.html
santhosh@ccb228d15332571:/var/www/html$ ls
test_website
santhosh@ccb228d15332571:/var/www/html$ cd test_website/
santhosh@ccb228d15332571:/var/www/html/test_website$ ls
index.html
```