Apache2 Web Server Installation & HTML Deployment

Objective:

This document explains the step-by-step process to install the Apache2 web server, deploy an HTML file from a GitHub repository, and verify the website.

Step 1: Update Package Index

Command:

sudo apt update -y

Explanation:

Updates the system package list.

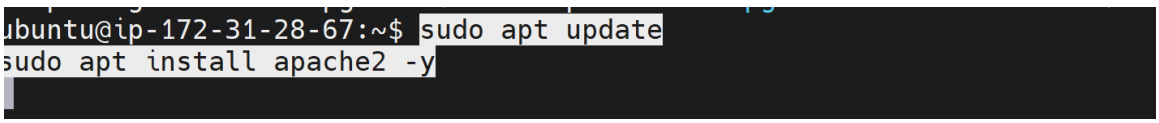
Step 2: Install Apache2

Command:

sudo apt install apache2 -y

Explanation:

Installs Apache2 web server.



Step 3: Start Apache Service

Command:

sudo systemctl start apache2

Explanation:

Starts Apache service.

```
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-28-67:~$ sudo systemctl start apache2
sudo systemctl enable apache2
```

Step 4: Enable Apache on Boot

Command:

sudo systemctl enable apache2

Explanation:

Ensures Apache starts automatically on reboot.

Screenshot: Apache enabled

Step 5: Check Apache Status

Command:

sudo systemctl status apache2

Explanation:

Verifies Apache is running.

```
ubuntu@ip-172-31-28-67:/var/www/html$ ubuntu@ip-172-31-28-67:/var/www/html$ ^C
ubuntu@ip-172-31-28-67:/var/www/html$ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
     Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: enabled)
     Active: active (running) since Wed 2026-02-04 06:32:13 UTC; 39min ago
       Docs: https://httpd.apache.org/docs/2.4/
   Main PID: 2435 (apache2)
      Tasks: 55 (limit: 1008)
     Memory: 8.0M (peak: 8.5M)
        CPU: 222ms
     CGroup: /system.slice/apache2.service
             ├─2435 /usr/sbin/apache2 -k start
             ├─2437 /usr/sbin/apache2 -k start
             └─2439 /usr/sbin/apache2 -k start

Feb 04 06:32:13 ip-172-31-28-67 systemd[1]: Starting apache2.service - The Apache HTTP Serv>
```

Step 6: Navigate to Web Root

Command:

cd /var/www/html

Explanation:

Moves to Apache document root.

Step 7: Remove Default Page

Command:

sudo rm index.html

Explanation:

Deletes default Apache page.

Screenshot: index.html removed

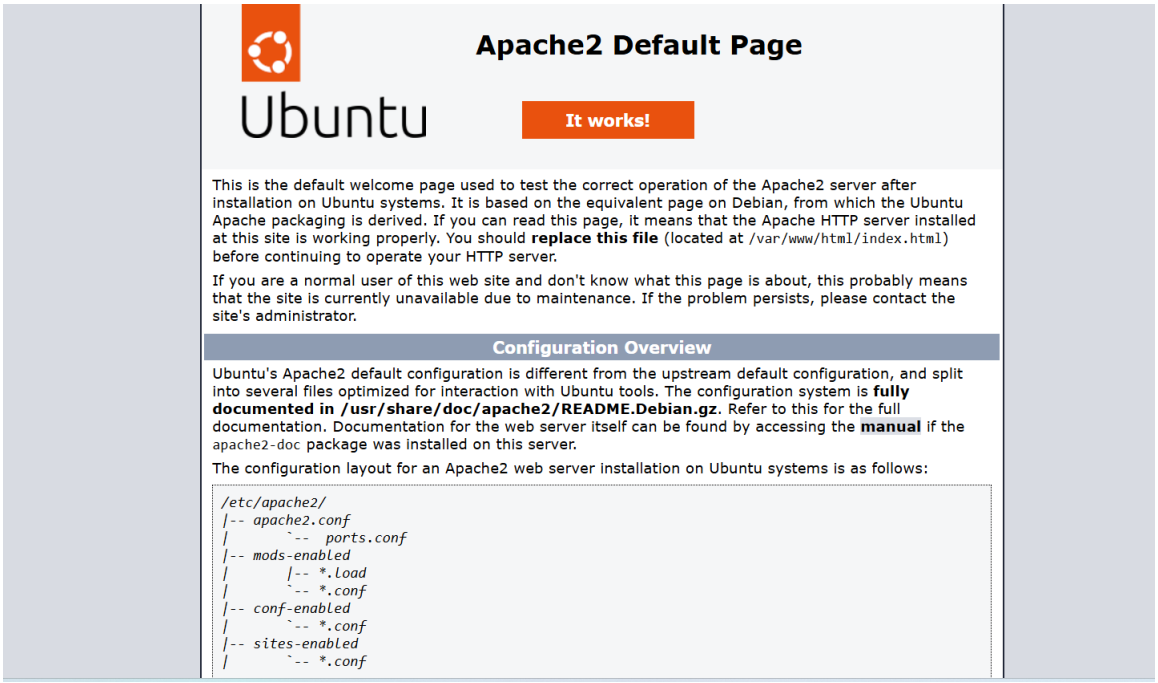
Step 8: Clone GitHub Repository

Command:

sudo git clone https://github.com/BhanuBolligorla/HTML-Tasks.git

Explanation:

Downloads HTML project.



```
ubuntu@ip-172-31-28-67:/var/www/html$ sudo git clone https://github.com/Harinigourishetty/staticsite-docker.git
```

Step 9: Copy HTML File

Command:

sudo cp markssheet.html /var/www/html

Explanation:

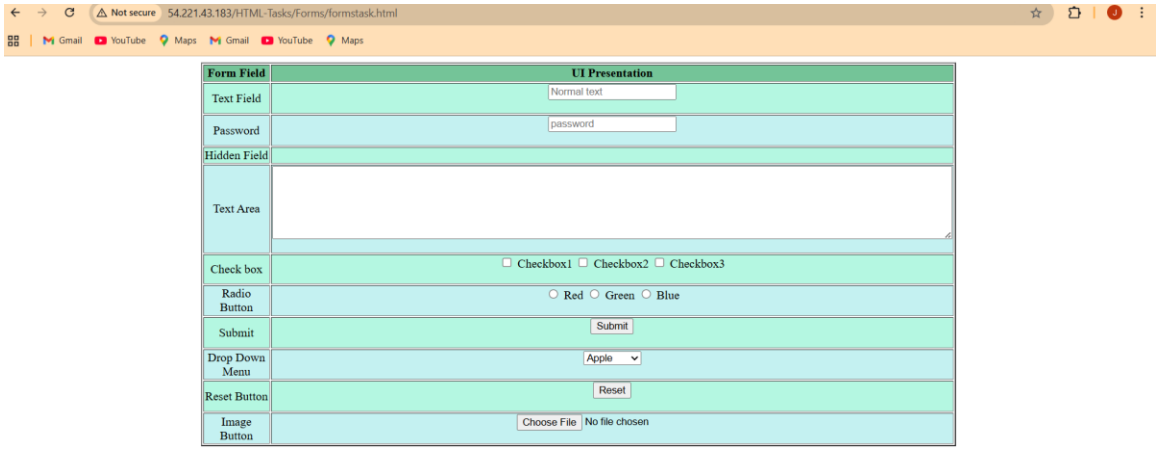
Copies HTML file to web directory.

Screenshot: File copied

Step 10: Access Website

URL:

http://localhost/markssheet.html



Conclusion:

Apache2 installation and HTML deployment completed successfully.