

## 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.

```
ubuntu@ip-172-31-28-67:~$ sudo apt update -y
```

### Step 2: Install Apache2

Command:

```
sudo apt install apache2 -y
```

Explanation:

Installs Apache2 web server.

```
ubuntu@ip-172-31-28-67:~$ sudo apt update  
sudo apt install apache2 -y
```

### 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No VM guests are running outdated hypervisor (qemu) binaries on this host.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

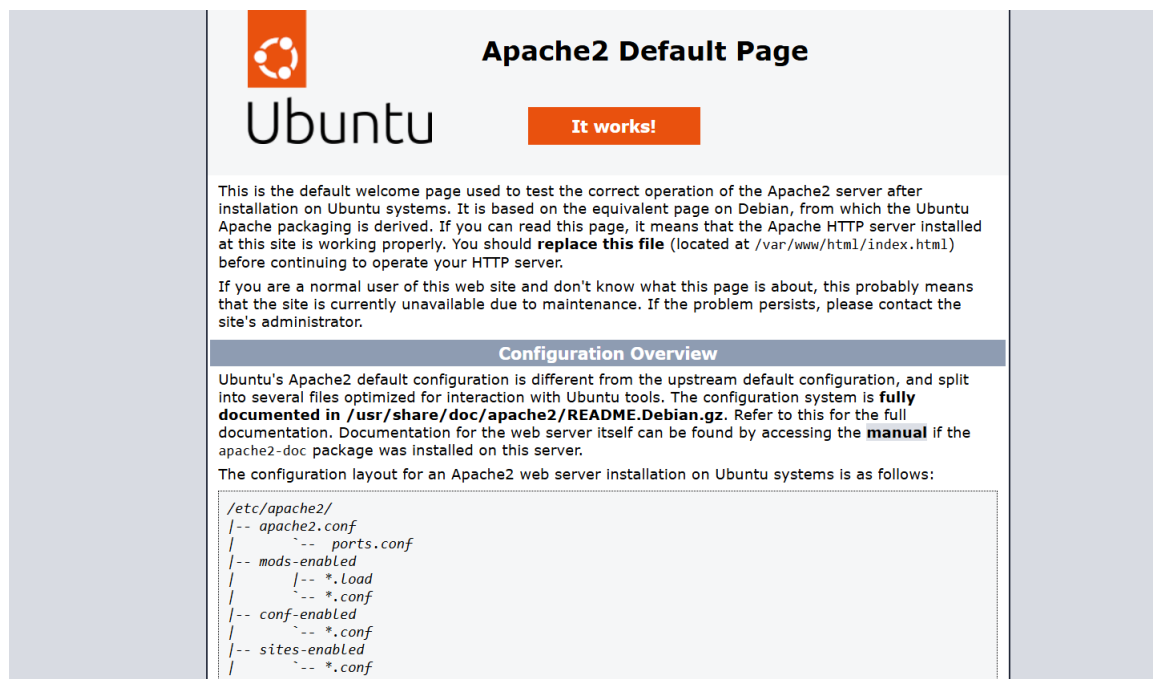
## Step 8: Clone GitHub Repository

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:

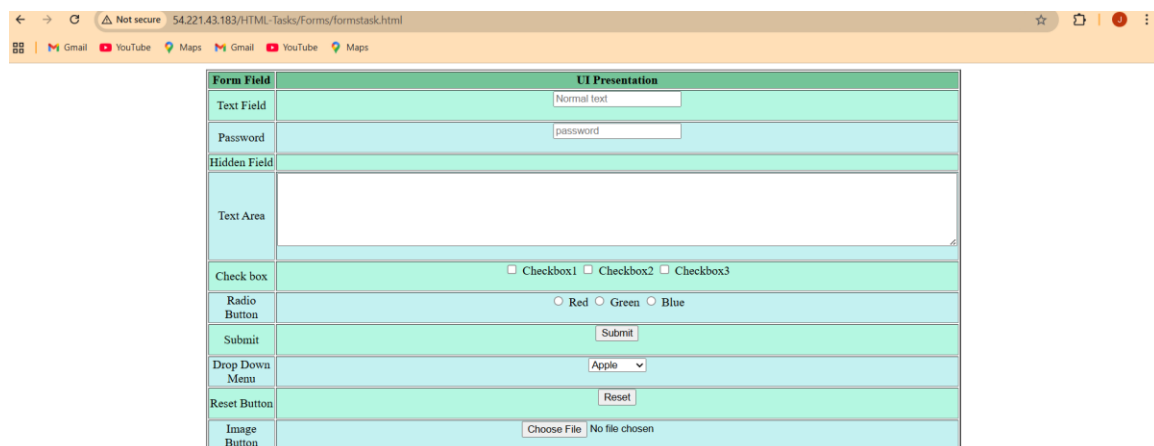
Copies HTML file to web directory.

Screenshot: File copied

### Step 10: Access Website

URL:

<http://localhost/markssheet.html>



The screenshot shows a web browser window with the address bar displaying "54.221.43.183/HTML\_Tasks/Forms/formtask.html". The browser's address bar also shows "Not secure". The page content is a form titled "UI Presentation" with a table-like structure. The form contains the following fields and controls:

Form Field	UI Presentation
Text Field	Normal text
Password	password
Hidden Field	
Text Area	
Check box	<input type="checkbox"/> Checkbox1 <input type="checkbox"/> Checkbox2 <input type="checkbox"/> Checkbox3
Radio Button	<input type="radio"/> Red <input type="radio"/> Green <input type="radio"/> Blue
Submit	<input type="submit" value="Submit"/>
Drop Down Menu	Apple
Reset Button	<input type="button" value="Reset"/>
Image Button	<input type="button" value="Choose File"/> No file chosen

Conclusion:

Apache2 installation and HTML deployment completed successfully.