# How to install a web server on Linux?

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Use case: Installing Apache Web Server on Ubuntu 22.04 LTS.

## **Background**

The Apache HTTP Server, commonly referred to as Apache, is a widely used open-source web server software. It plays a fundamental role in serving web content, handling client requests, and managing website configurations.

Ubuntu is a popular open-source Linux distribution based on Debian. It is known for its user-friendly interface, regular release cycle, and strong community support.

## **Prerequisite**

For this project, you need:

• A running Linux Ubuntu 22.04 LTS

• sudo privileges on the system.

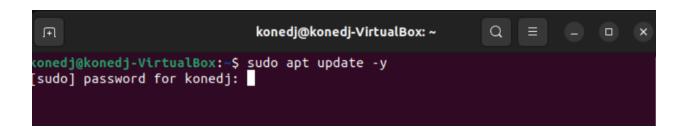
## **Project Outline**

As a cloud engineer, I need to install Apache Web Server on Linux Ubuntu distribution, in order to allow my team to test a webpage on the server. We'll provide the step-by-step to install Apache Web Server on Linux Ubuntu distribution.

#### Let's have fun.

## **Step 1: Install Apache**

- Log in to Ubuntu and open the terminal.
- Type sudo sudo apt update -y to update all packages in your Linux repositories.



• Install Apache by typing sudo apt install apache2 in the command line.

## **Step 2: Check the Status of Apache**

- After the installation is completed, verify the status of Apache by entering the following command:sudo systemctl status apache2
- The status should be active (running).

```
konedj@konedj-VirtualBox:~$ sudo systemctl status apache2
 apache2.service - The Apache HTTP Server
     Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor prese>
     Active: active (running) since Wed 2023-10-18 19:36:08 CDT; 2h 30min ago
       Docs: https://httpd.apache.org/docs/2.4/
    Process: 732 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUC>
   Main PID: 803 (apache2)
      Tasks: 55 (limit: 4598)
     Memory: 7.4M
        CPU: 1.443s
     CGroup: /system.slice/apache2.service
              -803 /usr/sbin/apache2 -k start
               -804 /usr/sbin/apache2 -k start
              -805 /usr/sbin/apache2 -k start
Oct 18 19:36:07 konedj-VirtualBox systemd[1]: Starting The Apache HTTP Server..
Oct 18 19:36:08 konedj-VirtualBox apachectl[761]: AH00558: apache2: Could not r>
Oct 18 19:36:08 konedj-VirtualBox systemd[1]: Started The Apache HTTP Server.
```

### **Step 3: Test Apache Web Server**

- Obtain an html webpage from Apache.
- Type the following lines as described in the screenshot below.

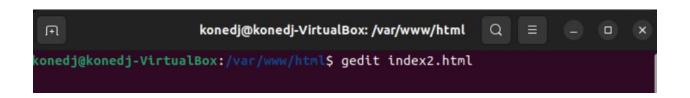
- Open a Mozilla browser by typing firefox apache2
- You should see a default webpage. If it doesn't display Apache, enter the following in the address bar of the browser that just opened: *localhost/index.html*.
- Now you are able to see the page below.



Apache Web Server is installed and hosting web pages.

#### Bonus: Let's do another test.

 Create another HTML file by typing the following command in the terminal gedit index2.html

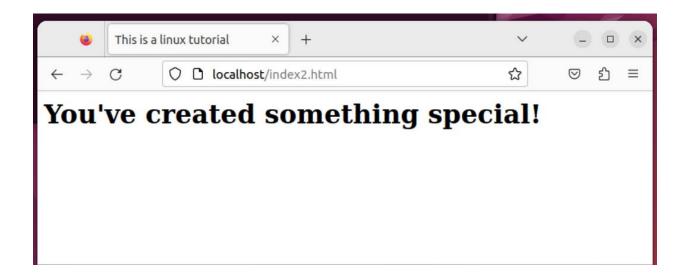


- A text editor window will open automatically.
- Copy and paste the code below into your text editor. Feel free to customize it.



- Do not save this code yet. Copy the code and close the editor.
- Return to the command line and enter sudo gedit index2.html
- You'll be prompted to enter your password.
- Another text editor will open. Paste the code in the text editor that popped up, and save everything.
- In the command line, type the following code firefox index2.html

- · Another browser window will open.
- In the address bar, type localhost/index2.html as we did before.
- Upon completion, you should see the webpage as shown below.



Voilà! You have installed Apache Web Server on Ubuntu 22.