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.

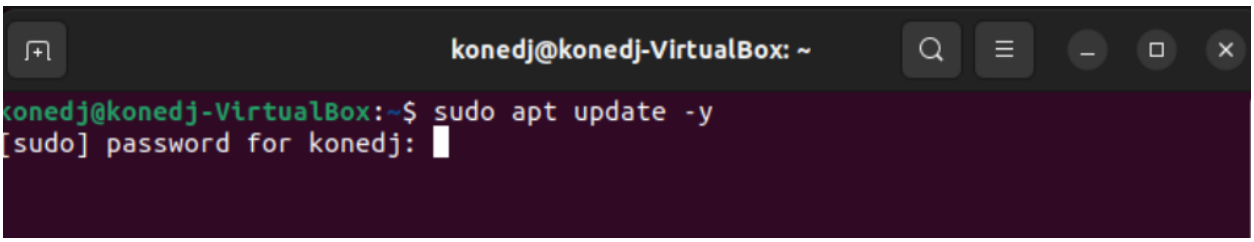
Project Outline

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

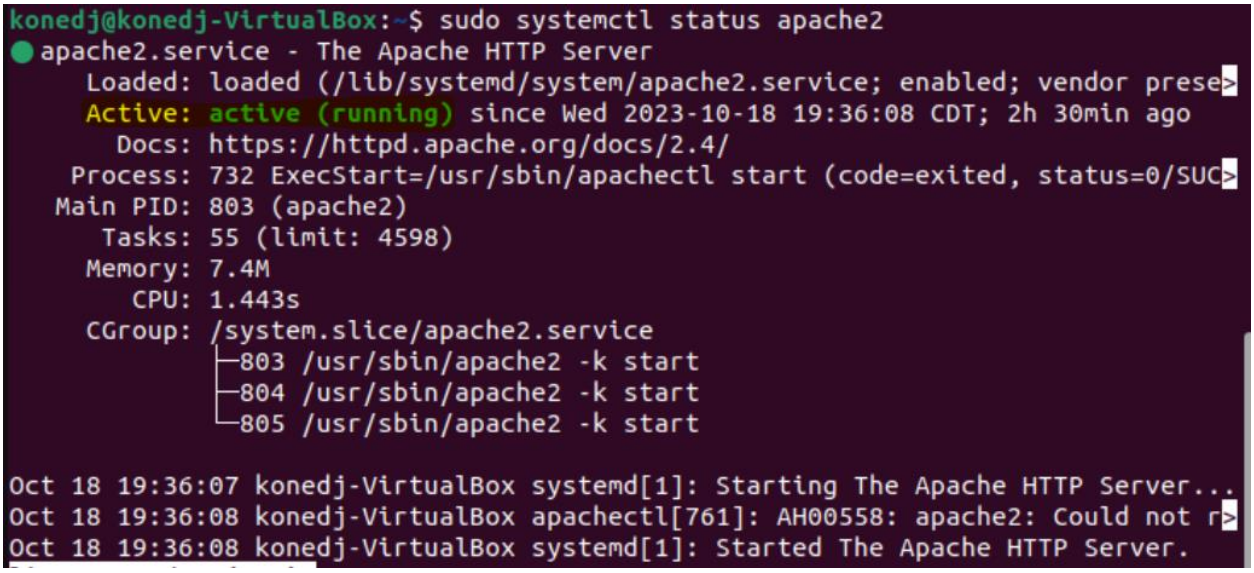
- Log in to Ubuntu and open the terminal.
- Type sudo `sudo apt update -y` to update all packages in your Linux repositories.



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

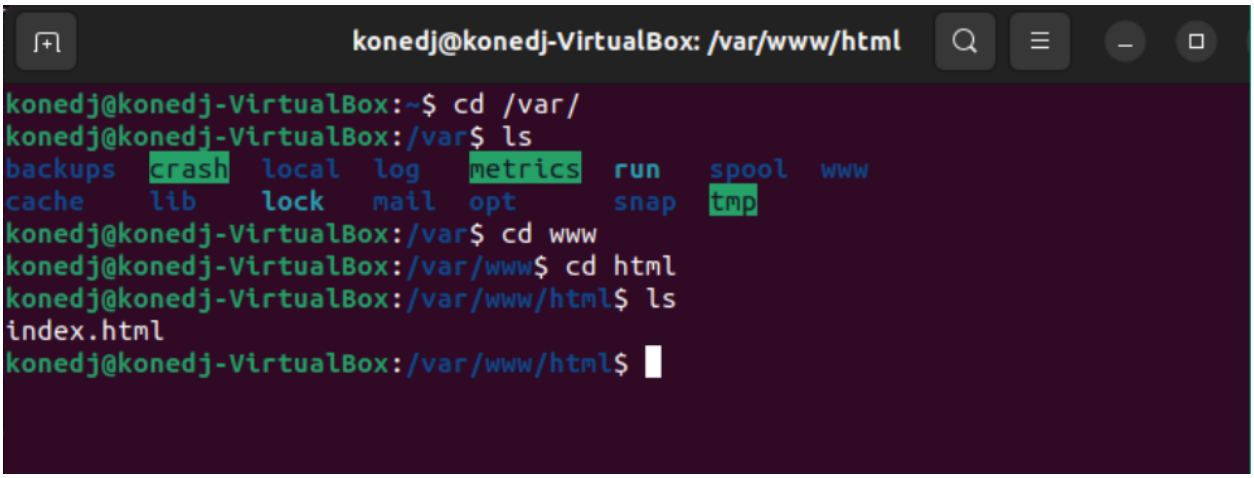
Step 2: Check the Status of Apache

- 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)**.

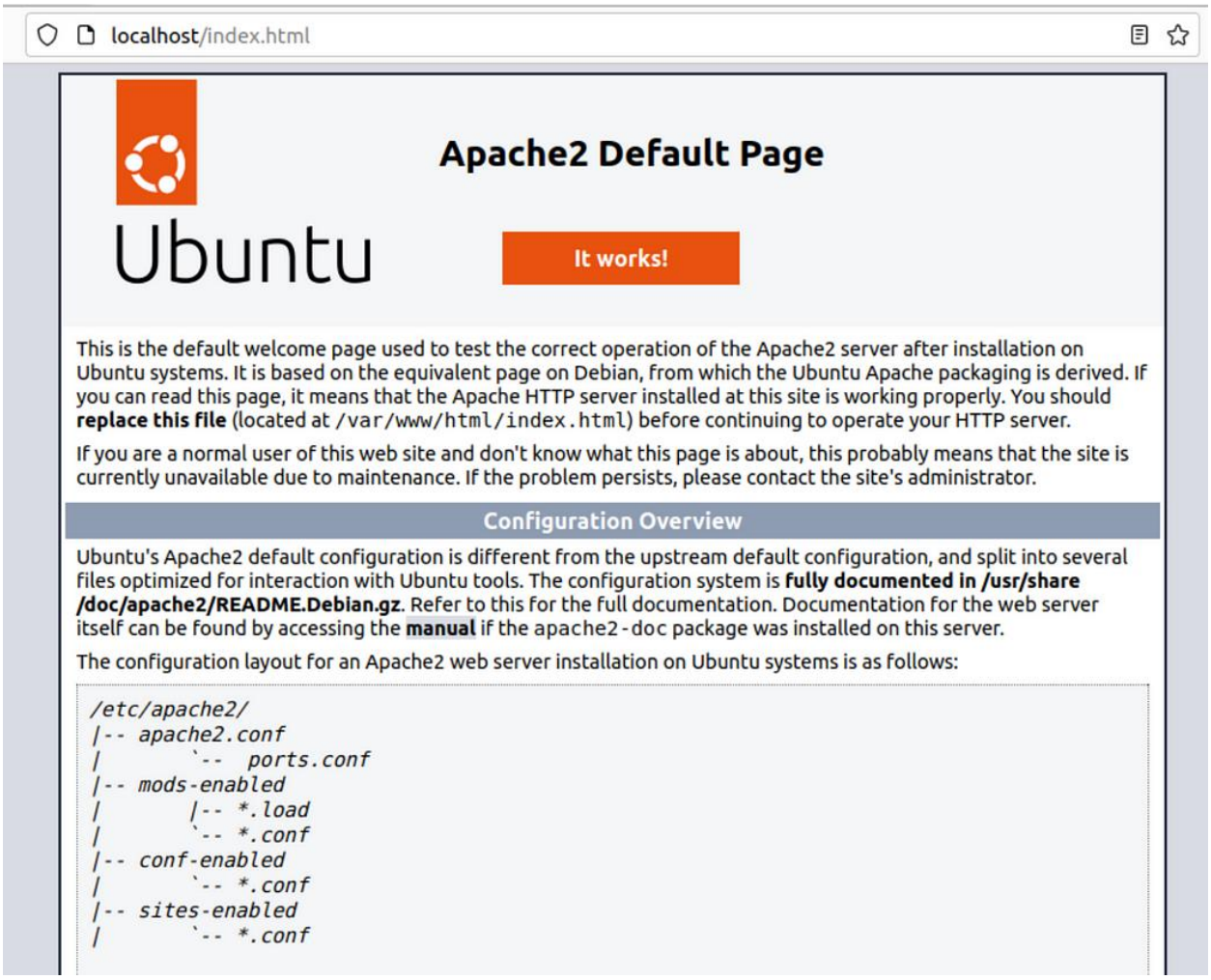


Step 3: Test Apache Web Server

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



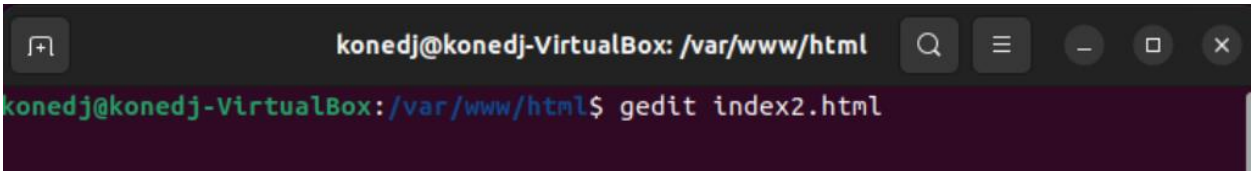
- Open a Mozilla browser by typing **firefox apache2**
- You should see a default webpage. If it doesn't display Apache, enter the following in the address bar of the browser that just opened: ***localhost/index.html.***
- Now you are able to see the page below.



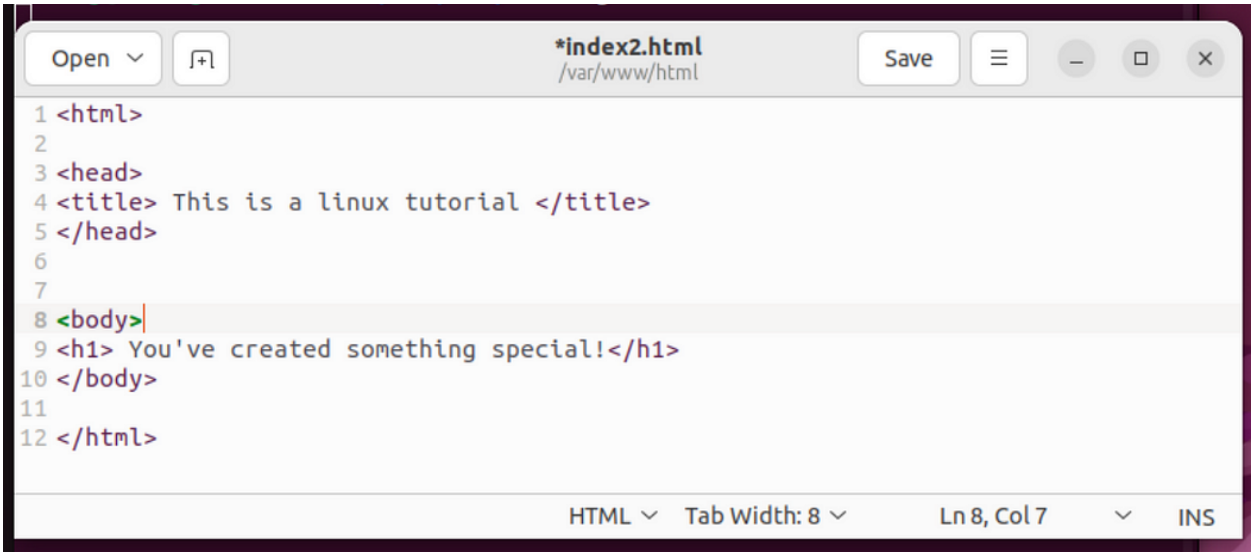
Apache Web Server is installed and hosting web pages.

Bonus: Let's do another test.

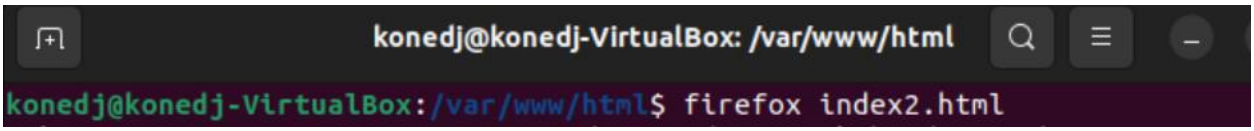
- Create another HTML file by typing the following command in the terminal **gedit index2.html**



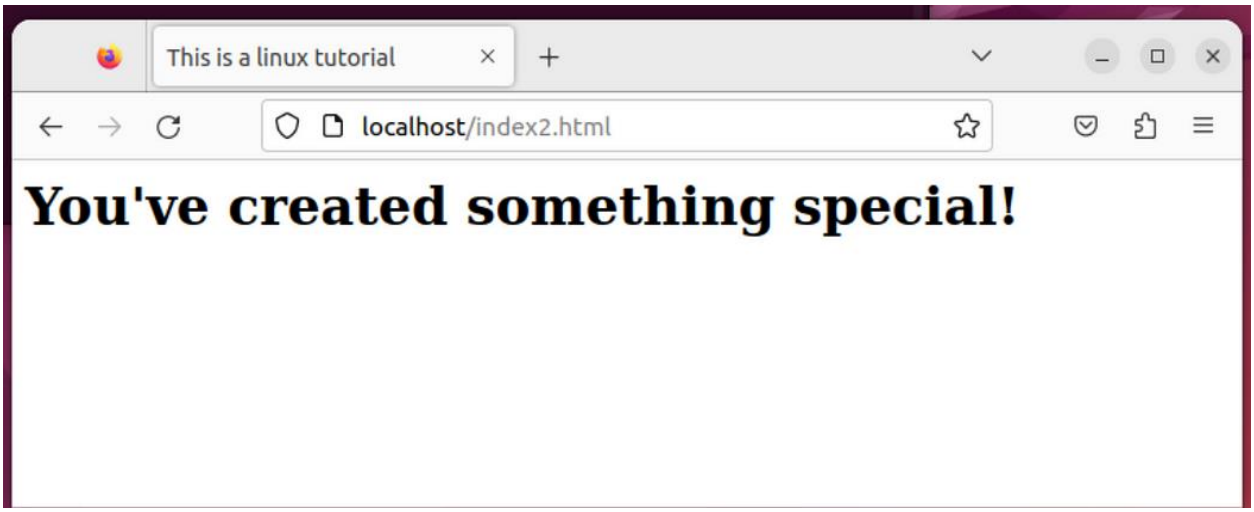
- A text editor window will open automatically.
- Copy and paste the code below into your text editor. Feel free to customize it.



- 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.