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Overview

Hosting Tutorial: Installing Apache2 Web Server on a VPS | Web Development Tutorials #92

Hosting Tutorial- Installing Apache 2 Web Server on a VPS In the last tutorial, we have clearly understood how a person can easily set up his server through

Announcements

Ubuntu. We have also seen how to manage the server in DigitalOcean. Although we can install several other operating systems in the server like python, node etc. but our main objective is to host our static website on it.

can expect the output as follows-

To start serving our files, we need to allow *outbound traffic*. Now if you write *ufw status*, then you

```
command 'pwd' from deb coreutils
  command 'pwdx' from deb procps
Try: apt install <deb name>
root@HarrysSite:/# pwd
root@HarrysSite:/#
root@HarrysSite:/#
root@HarrysSite:/#
root@HarrysSite:/#
root@HarrysSite:/#
root@HarrysSite:/# python
Command 'python' not found, but can be installed with:
apt install python3
apt install python
apt install python-minimal
You also have python3 installed, you can run 'python3' instead.
root@HarrysSite:/# node
Command 'node' not found, but can be installed with:
apt install nodejs
root@HarrysSite:/# ufw
ERROR: not enough args
                                                                                                     Activate Windows
root@HarrysSite:/# ufw status
                                                                                                     Go to Settings to activate Windows.
Status: inactive
root@HarrysSite:/#
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```

requirements and hence, we need to activate it. Along with it, we need to install a tried and trusted software. We need to run the command called *apt update* and we will get the output as follows-

UFW is a firewall whose status is inactive now. It means that anyone can configure with our system's

```
root@HarrysSite:/# ufw status
Status: inactive
root@HarrysSite:/# apt update
Get:1 http://mirrors.digitalocean.com/ubuntu bionic InRelease [242 kB]
Get: 2 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]
Get:3 http://mirrors.digitalocean.com/ubuntu bionic-updates InRelease [88.7 kB]
Get: 4 http://mirrors.digitalocean.com/ubuntu bionic-backports InRelease [74.6 kB]
Get:5 http://mirrors.digitalocean.com/ubuntu bionic/universe amd64 Packages [8570 kB]
Get:6 http://security.ubuntu.com/ubuntu bionic-security/main amd64 Packages [677 kB]
Get:7 http://mirrors.digitalocean.com/ubuntu bionic/universe Translation-en [4941 kB]
Get:8 http://mirrors.digitalocean.com/ubuntu bionic/multiverse amd64 Packages [151 kB]
Get:9 http://mirrors.digitalocean.com/ubuntu bionic/multiverse Translation-en [108 kB]
Get:10 http://mirrors.digitalocean.com/ubuntu bionic-updates/main amd64 Packages [897 kB]
Get:11 http://mirrors.digitalocean.com/ubuntu bionic-updates/main Translation-en [310 kB]
Get:12 http://mirrors.digitalocean.com/ubuntu bionic-updates/restricted amd64 Packages [37.5 kB]
Get:13 http://security.ubuntu.com/ubuntu bionic-security/main Translation-en [218 kB]
Get:14 http://mirrors.digitalocean.com/ubuntu bionic-updates/restricted Translation-en [9524 B]
Get:15 http://security.ubuntu.com/ubuntu bionic-security/restricted amd64 Packages [28.5 kB]
Get:16 http://security.ubuntu.com/ubuntu bionic-security/restricted Translation-en [7568 B]
Get:17 http://security.ubumtu.com/ubuntu bionic-security/universe amd64 Packages [653 kB]
Get:18 http://mirrors.digitalocean.com/ubuntu bionic-updates/universe amd64 Packages [1061 kB]
Get:19 http://mirrors.digitalocean.com/ubuntu bionic-updates/universe Translation-en [329 kB]
Get: 20 http://mirrors.digitalocean.com/ubuntu bionic-updates/multiverse amd64 Packages [10.5 kB]
Get:21 http://mirrors.digitalocean.com/ubuntu bionic-updates/multiverse Translation-en [4696 B]
Get:22 http://mirrors.digitalocean.com/ubuntu bionic-backports/main amd64 Packages [2512 B]
Get: 23 http://mirrors.digitalocean.com/ubuntu bionic-backports/main Translation-en [1644 B]
Get:24 http://mirrors.digitalocean.com/ubuntu bionic-backports/universe amd64 Packages [4020 B]
Get: 25 http://security.ubuntu.com/ubuntu bionic-security/universe Translation-en [217 kB]
Get:26 http://mirrors.digitalocean.com/ubuntu bionic-backports/universe Translation-en [1900 B]
Get: 27 http://security.ubuntu.com/ubuntu bionic-security/multiverse amd64 Packages [6968 B]
                                                                                                  Activate Windows
Get:28 http://security.ubuntu.com/ubuntu bionic-security/multiverse Translation-en [2732 B]
                                                                                                   Go to Settings to activate Windows.
Fetched 18.7 MB in 6s (3236 kB/s)
                                                                                                       (3) ∧ ↓ (9) (2) ENG ↓
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```

manager of Ubuntu. It allows us to install the latest set of packages.

We will now install the software called *lamp stack*. A **LAMP Stack** is a set of open-source software that

This function will update all the packages installed in the server. APT is also called the package

can be used to create websites and web applications. **LAMP** is an acronym, and these **stacks** typically consist of the Linux operating system, the Apache HTTP Server, the MySQL relational database management system, and the PHP programming language.

We now need to write **apt install apache2.** We also need to apply a pseudo if we are the second user.

In the beginning, we don;t need to use our root id, rather we should go for the pseudo. Pseudo user simply means, we will create a new user and provide it all the power in terms of benefits.

But if you are already a root user, there is no need of making yourself a pseudo user.

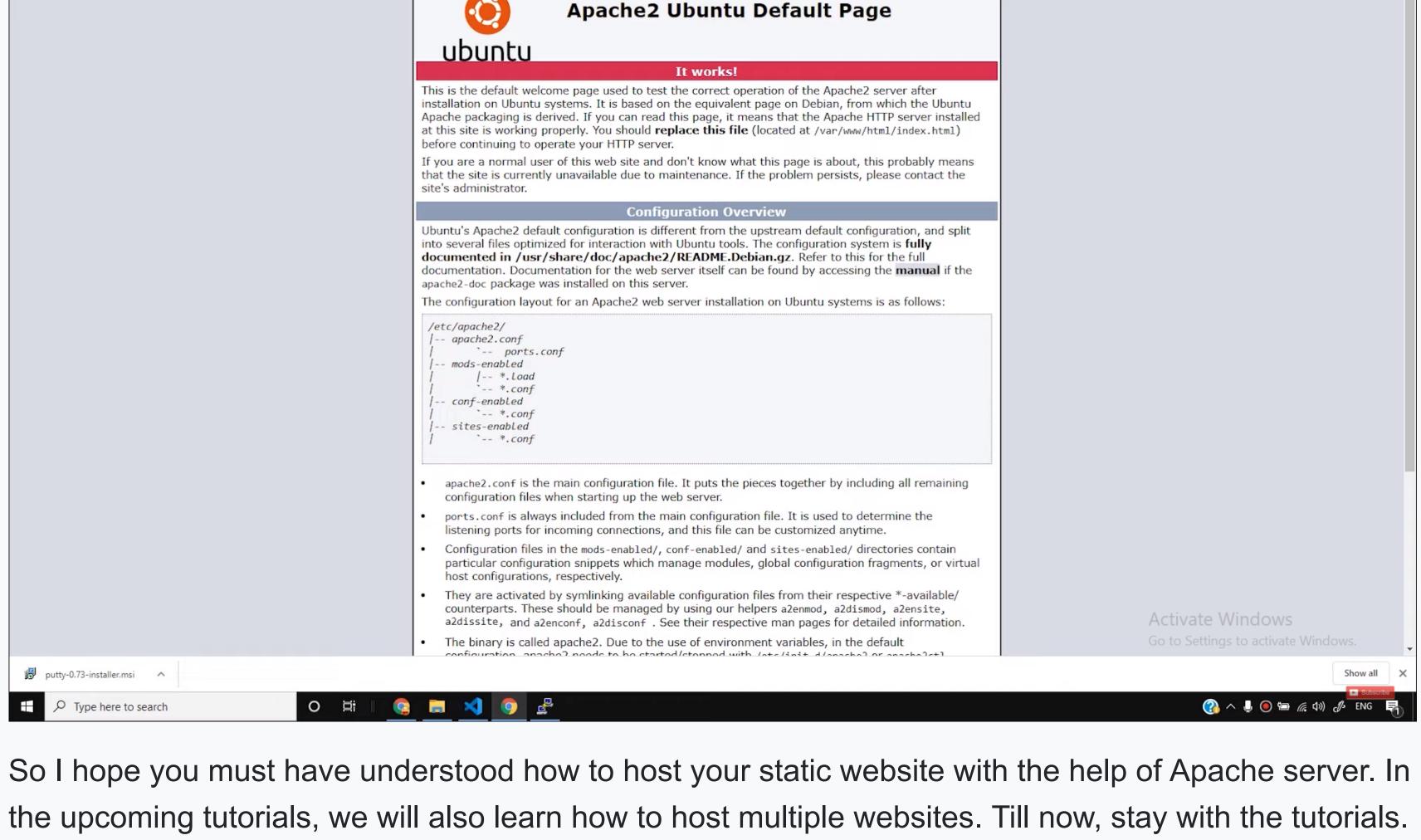
Now we need to install Apache server. The Apache HTTP Server, colloquially called Apache, is a free

and open-source cross-platform web server software, released under the terms of Apache License 2.0. Apache is developed and maintained by an open community of developers under the auspices of the Apache Software Foundation.

We need to allow the incoming traffic and we will get the output as follows-

```
Enabling module reqtimeout.
Enabling conf charset.
Enabling conf localized-error-pages.
Enabling conf other-vhosts-access-log.
Enabling conf security.
Enabling conf serve-cgi-bin.
Enabling site 000-default.
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /lib/systemd/system/apache2.service.
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /lib/systemd/system/apache-h
tcacheclean.service.
Processing triggers for libc-bin (2.27-3ubuntu1) ...
Processing triggers for systemd (237-3ubuntu10.31) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
Processing triggers for ufw (0.36-0ubuntu0.18.04.1) ...
Processing triggers for ureadahead (0.100.0-21) ...
root@HarrysSite:/# sudo ufw app list
Available applications:
  Apache
  Apache Full
  Apache Secure
  OpenSSH
root@HarrysSite:/# sudo ufw app info "Apache Full"
Profile: Apache Full
Title: Web Server (HTTP, HTTPS)
Description: Apache v2 is the next generation of the omnipresent Apache web
server.
Ports:
  80,443/tcp
 oot@HarrysSite:/# sudo ufw allow in "Apache Full"
                                                                                                   Activate Windows
Rules updated
                                                                                                    Go to Settings to activate Windows.
Rules updated (v6)
root@HarrysSite:/#
                         O # | 🚱 🔚 刘 🧿 💤
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And if we now move to our website that we have hosted, it will look as follows-
```

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