# Installing Apache2 web server, MySQL database server, and PHP language interpreters, on Ubuntu Server

You can install these with LAMP or XAMPP or install each separately using apt-get installer.

As of April, May June, 2020, Let's install Apache 2.4, MySQL 8.0 and PHP 7.4 on Ubuntu 20.04 LTS.

This is done with root or sudo privilege user access to the system. Login to your Ubuntu server either at your command line interface, using console within a GUI, or remotely using SSH. Putty is good app for remote SSH access to Linux Ubuntu from a Windows operating system.

## **Installing PHP**

The latest PHP 7.4 packages are available in the default repositories for Ubuntu 20.04 LTS. First Update the index and then install PHP on the Ubuntu Server operating system.

```
sudo apt update
sudo apt install -y php7.4
```

Install additional PHP modules that are required for your application.

```
sudo apt install php7.4-curl php7.4-gd php7.4-json php7.4-mbstring php7.4-
xml
```

#### **Enable Modules for NextCloud installation**

If you plan to install NextCloud server to run on Apache web server, then you should install the following PHP modules that are either recommended or required as prerequisites for the proper functioning NextCloud. Ensure that you manually enable each of these modules in the php.ini file for purposes of running NextCloud. There will obviously be other modules to enable for general operation of PHP and other websites' applications.

```
sudo apt install php-imagick php7.4-common php7.4-mysql php7.4-fpm php7.4-gd php7.4-json php7.4-curl php7.4-zip php7.4-xml php7.4-mbstring php7.4-bz2 php7.4-intl
```

Note: If you did not begin with this guide and Apache is already installed, then you should Apache service to use these modules:

```
sudo systemctl reload apache2
```

Next we will install Apache2 web server and virtual hosts.

# **Installing Apache2 and Creating Apache VirtualHost**

### **Installing Apache2 (version 2.4)**

```
sudo apt-get update
sudo apt-get install apache2
```

Also (OR INSTEAD) install libapache2-mod-php module to work PHP with Apache2. [Go research this]

Enter the following to install it:

```
sudo apt install apache2 libapache2-mod-php7.4
```

### **Creating Apache VirtualHost**

In Apache on Ubuntu, the virtual host configuration files are stored under /etc/apache2/sites-available/ directory. With the new Apache installation you will find a default virtual host file there. Create a new Virtual Host configuration file by copying the default file, as follows:

```
cd /etc/apache2/sites-available/
sudo cp 000-default.conf www1.example.com.conf
```

Edit the virtual host configuration file for your requirements, using your favorite editor such as vim. A configuration for www1.example.com configuration can be something like the following:

```
vim www.example.com.conf
```

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Create the appropriate directory structure in the file system, in accordance with the path specified in the above virtual host.conf file, and assign or grant the appropriate file permissions for the Apache webserver user (namely www-data:www-data).

```
mkdir -p /var/www/www1.example.com/httpdocs
chmod 755 /var/www/www1.example.com/httpdocs
chown www-data.www-data /var/www/www1.example.com/httpdocs
```

You can now upload your project files (website) on /var/www/www1.example.com/httpdocs/ directory. For example, create a default page index.html file to test virtual host configuration, such as follows:

```
echo "<h1>site1.example.com</h1>" >
/var/www/www1.example.com/httpdocs/index.html
```

#### **Next - Enable the First VirualHost**

Remember that we configured the first VirtualHost file under the /etc/apache2/sites-available/ directory. However, it is necessary to enable or activate the VirtualHost under the /etc/apache2/sites-enabled/ directory (an apache directory to which there is no permission for direct access).

Adjust the site-name and use the following command to enable this VirtualHost so that Apache can load this enabled configuration file when the Apache service is restarted (reloaded). so, to enable the new configuration VitualHost, adjust the site-name and run the following from the command line:

```
a2ensite site1.example.com
```

This enables the site in /etc/apache2/sites-enabled/

To activate the new configuration by reloading Apache (to bring the site 'live' in the Apache web service), enter the following command:

```
service apache2 reload
```

You will need to setup DNS address entries for this 'domain' and host header.

If you do not have the DNS ready, you can temporarily map the domain by making an entry in the /etc/hosts files.

192.168.2.163 www1.example.com

## **Creating Additional Virtual Hosts**

Repeat the above steps for site www1 by changing the site-name to whatever it will be, such as www2.exmample.com

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