Install and Secure PHPMyAdmin on Nginx

Install PhpMyAdmin

sudo apt-get update

sudo apt-get installphpmyadmin

Create a symbolic link from the Installation Files

sudoln -s /usr/share/phpmyadmin /var/www/html

sudo phpenmodmcrypt

sudo service php7.2-fpm restart

Change admin login location

cd /var/www/html

sudo mv phpmyadminqu\_db

## Install Apache, MySQL, PHP (LAMP) Stack on Ubuntu 18.04

### 1. Install Apache

sudo apt update&&sudo apt install apache2

### 2. Configure Firewall

sudoufw allow OpenSSH

sudoufw allow in"Apache Full"

sudoufwenable

sudoufw status

### 3. Test Apache

sudo service apache2 status

### 4. Install MySQL

sudo apt update

&&sudo apt install mysql-server

sudo service mysql status

### 5. MySQL Security

sudomysql\_secure\_installation

-> ENTER | Y | Y | Y | Y

sudomysqladmin -p -u root version

### 6. Install PHP

sudo apt update&&sudo apt installphp libapache2-mod-php php-mysql

php -version

### 7. Installing phpMyAdmin

sudo apt update

sudo apt install phpmyadmin

sudo ln -s /etc/phpmyadmin/apache.conf /etc/apache2/conf-available/phpmyadmin.conf

sudo a2enconf phpmyadmin.conf

sudo service apache2 reload

### 8. Create MySQL User

Sudo mysql

CREATEUSER'newuser'@'localhost'IDENTIFIEDBY'password';

GRANT ALL PRIVILEGESON\* . \* TO'newuser'@'localhost';

FLUSHPRIVILEGES;

exit

### 9. Secure PhpMyAdmin

sudonano /etc/apache2/conf-available/phpmyadmin.conf

Alias /your\_url /usr/share/phpmyadmin

sudo service apache2 reload

### 10. Install ZIP/Unzip

apt-getupdate

apt-getinstall zip unzip

### 11. Enable .htaacess

sudo apt-get update

sudo a2enmod rewrite

sudo nano /etc/apache2/sites-enabled/000-default.conf

<Directory "/var/www/html">

AllowOverrideAll

</Directory>

### 12. Configure Apache File

sudonano /etc/apache2/apache2.conf

<Directory /var/www/>

Options Indexes FollowSymLinks

AllowOverrideAll

Requireall granted

</Directory>

<Directory /var/www/html>

Options -Indexes

</Directory>

ServerSignatureOff

ServerTokens Prod

### 13. Install CURL

sudo apt-get install curl

sudo service apache2 restart

sudo apt-get install php7.0-curl

sudo service apache2 restart

### 14. install SSL Certificate

sudo apt-get update

sudoadd-apt-repository ppa:certbot/certbot

sudo apt-get update

sudo apt-get install python-certbot-apache

sudoapachectlstop

letsencrypt--authenticator standalone --installer apache -d [example.com](http://example.com/)

sudo service apache2 start

service apache2 restart

### 15. Setup SSH Key

sudo apt-get update

mkdir .ssh

cd ~/.ssh

touchauthorized\_keys

sudonanoauthorized\_keys

sudonano /etc/ssh/sshd\_config

prohibit-password

sudosystemctl restart sshd.service

service apache2 restart

**Setup PHP Website with Nginx on a DigitalOcean**

sudo apt-get update

sudo apt-get installnginx

sudo apt-get installmysql-server

sudomysql\_secure\_installation

sudo apt-get installphp-fpm php-mysql

sudonano /etc/php/7.2/fpm/php.ini

cgi.fix\_pathinfo=0

service php7.2-fpm start

sudonano /etc/nginx/sites-available/default

server{

listen80default\_server;

listen [::]:80default\_server;

root /var/www/html;

indexindex.php index.html index.htm index.nginx-debin.html;

server\_nameserver\_domain\_or\_IP;

location / {

try\_files $url $url/ -404;

}

location ~ \.php$ {

include $nippets/fastcgi.php.conf;

fastcgi\_passunix:/run/php/php7.2-fpm.sock;

}

location ~ /\.ht {

deny all;

}

}

sudonginx -t

sudosystemctl reload nginx

**How To Create Subdomain in Digitalocean**

## Require Commands

sudo apt-get update

sudomkdir -p /var/www/hi.example.com/public\_html

sudochown -R $USER:$USER /var/www/hi.example.com/public\_html

sudochmod -R 755 /var/www

sudocp /etc/apache2/sites-available/000-default.conf /etc/apache2/sites-available/hi.example.com.conf

sudonano /etc/apache2/sites-available/hi.example.com.conf

<VirtualHost \*:80>

ServerAdmin info@example.com

ServerName[hi.example.com](http://hi.example.com/)

DocumentRoot /var/www/hi.example.com/public\_html

<Directory /var/www/hi.example.com/public\_html/>

Options Indexes FollowSymLinks

AllowOverrideAll

Requireall granted

</Directory>

ErrorLog${APACHE\_LOG\_DIR}/error.log

CustomLog${APACHE\_LOG\_DIR}/access.log combined

</VirtualHost>

sudoa2ensitehi.example.com.conf

# How To Renew Letsencrypt SSL Certificate on DigitalOcean

Also read this –  [How To Install a Free SSL Certificate on DigitalOcean](https://bmtechtips.com/install-free-ssl-certificate-digitalocean-apache2.htm" \t "_blank)

## Useful Commands

sudo apt-get update

sudo apachectl stop

certbot renew --cert-name [example.com](http://example.com/)

sudo service apache2 start

service apache2 restart

# How To Set Up Multiple WordPress Sites on a Digitalocean

sudo apt-get update

sudo apt-get install apache2

sudomkdir -p /var/www/example.com/public\_html

sudochown -R $USER:$USER /var/www/example.com/public\_html

sudochmod -R 755 /var/www

sudocp /etc/apache2/sites-available/000-default.conf /etc/apache2/sites-available/example.com.conf

sudonano /etc/apache2/sites-available/example.com.conf

<VirtualHost \*:80>

ServerAdmin admin@example.com

ServerName[example.com](http://example.com/)

ServerAlias[www.example.com](http://www.example.com/)

DocumentRoot /var/www/example.com/public\_html

ErrorLog${APACHE\_LOG\_DIR}/error.log

CustomLog${APACHE\_LOG\_DIR}/access.log combined

</VirtualHost>

sudoa2ensiteexample.com.conf

sudo service apache2 restart

# How To Install a Free SSL Certificate on DigitalOcean With Apache2

#01 Step

sudo apt-get update

#02 Step

sudo apt-get install apache2

#03 Step

sudoadd-apt-repository ppa:certbot/certbot

#04 Step

sudo apt-get update

#05 Step

sudo apt-get install python-certbot-apache

#06 Step

sudoapachectlstop

#07 Step

letsencrypt--authenticator standalone --installer apache -d [example.com](http://example.com/)

#08 Step

sudo service apache2 start

#09 Step

service apache2 restart

#10 Step

[www.ssllabs.com/ssltest/analyze.html?d=example.com](http://www.ssllabs.com/ssltest/analyze.html?d=example.com)

## Setup Auto-Renewing

#01 Step

sudocrontab -e

#02 Step

011 \*/2 \* cd /usr/local/letsencrypt&& ./letsencrypt-auto certonly --apache --renew-by-default --apache -d [example.com](http://example.com/)>>/var/log/example.com-renew.log 2>&1

#03 Step

service apache2 restart