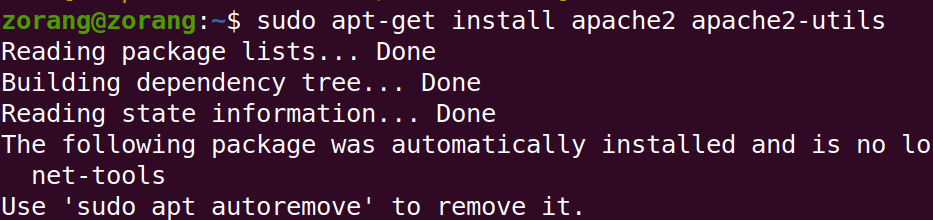
WordPress Installation

## Step1 - First update your system repo

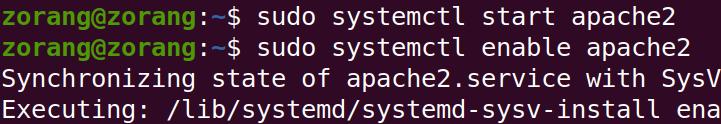
* Sudo apt-get update

## Step2 - Install apache2 and start and enable apache service

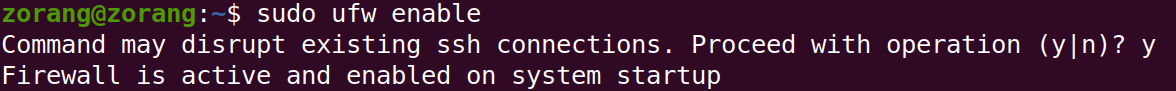
* sudo apt-get install apache2 apache2-utils



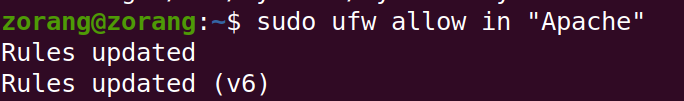
* sudo systemctl start apache2
* sudo systemctl enable apache2



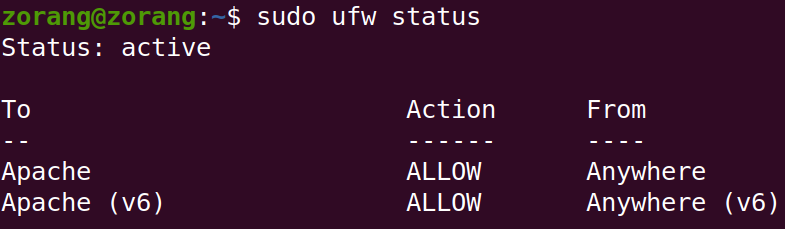
## Step3 - Once you’ve started Apache, you then need to allow HTTP traffic on your UFW firewall



* sudo ufw allow in "Apache"

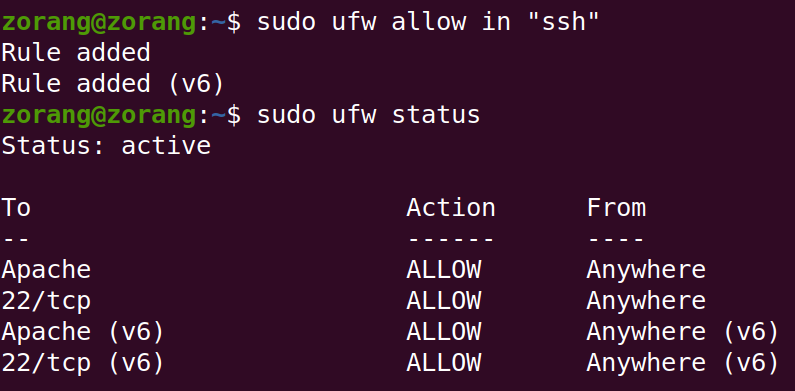


* sudo ufw status

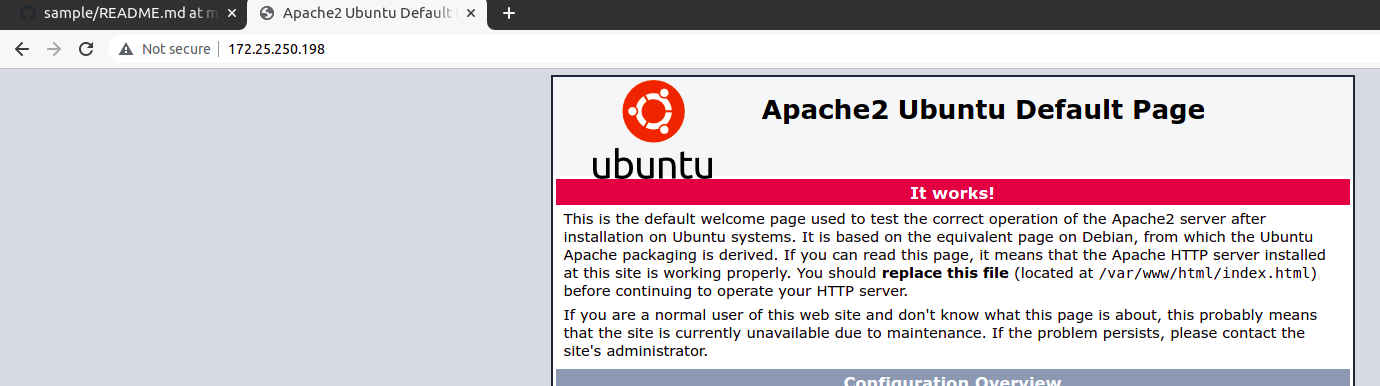


Important - please make sure you allow ssh if your server is

on virtual machine

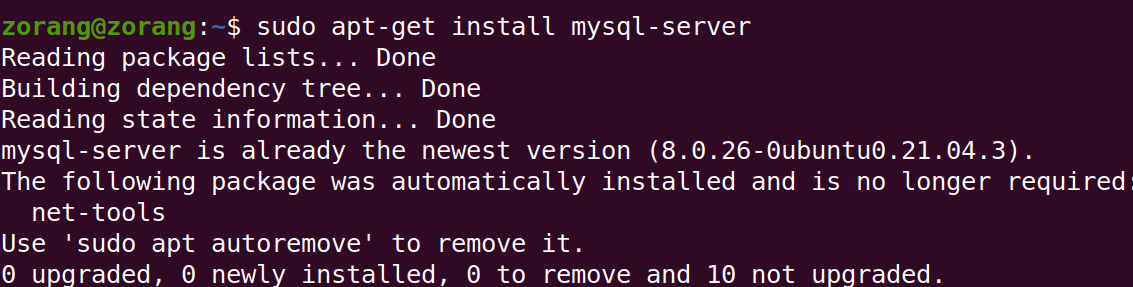


#### To test whether the Apache server is running, open your web browser and enter the following URL in the address bar



## Step4 - Now, Install mysql-server and set password for root

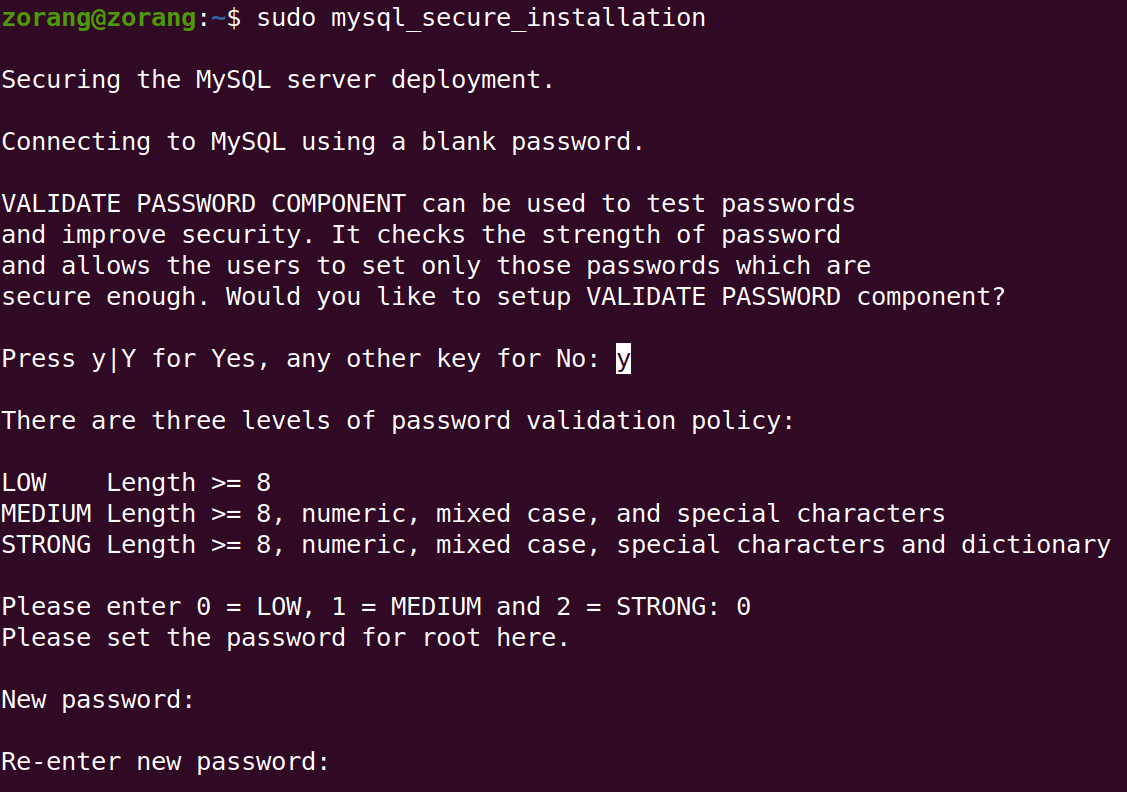
* sudo apt-get install mysql-server



* sudo mysql\_secure\_installation

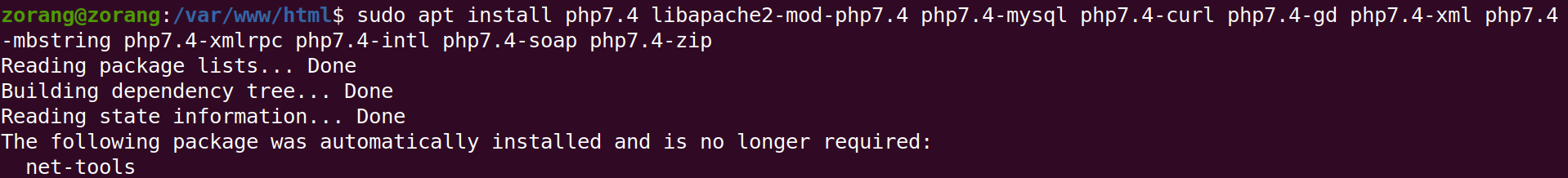
As shown in below image press Y to set root passsword

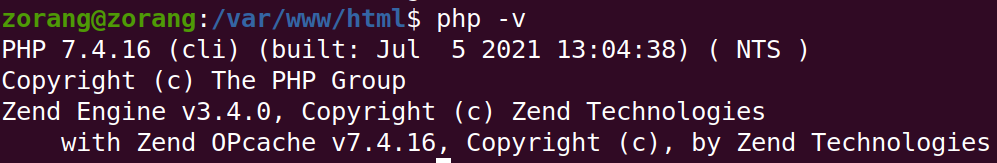
Choose password policy, and set root password like ([Ritik@123456](mailto:Ritik@123456)) and then press y for all.



## Step5 - Install required php7.4 packages

* sudo apt install php7.4 libapache2-mod-php7.4 php7.4-mysql php7.4-curl php7.4-gd php7.4-xml php7.4-mbstring php7.4-xmlrpc php7.4-intl php7.4-soap php7.4-zip





## Step6 - Download the latest version of the WordPress from GitHub

1. First navigate to html dir

* cd /var/www/html

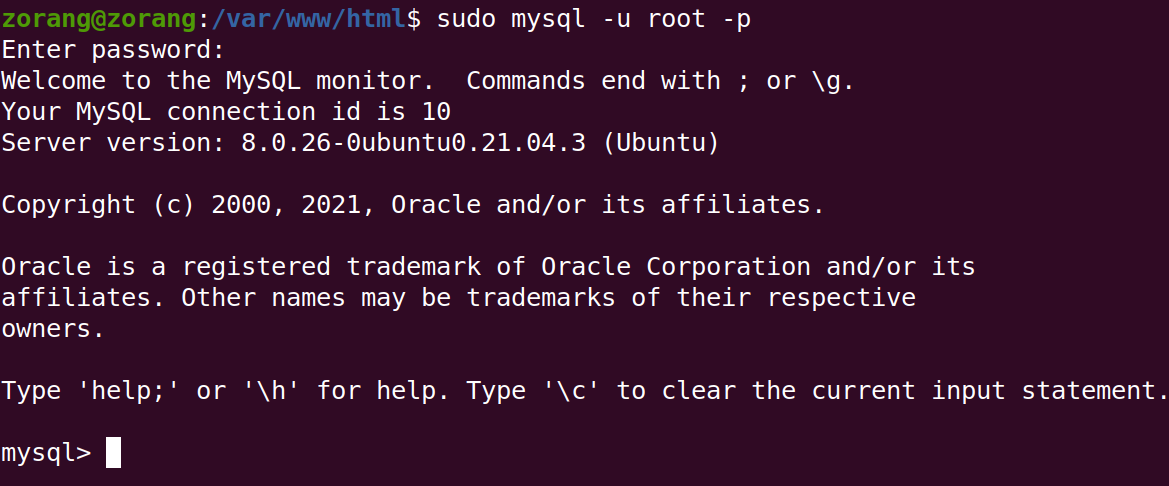
2. Clone WordPress repo from GitHub

* sudo git clone https://github.com/WordPress/WordPress.git

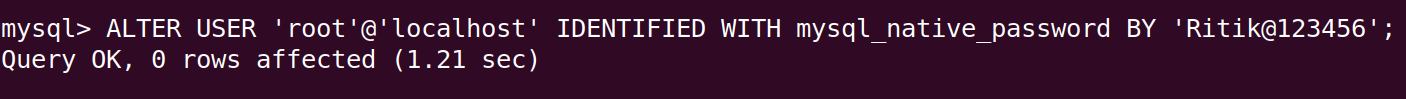
## 

## Step7 - Create user for wordpress and remember its password and give it permission to create database

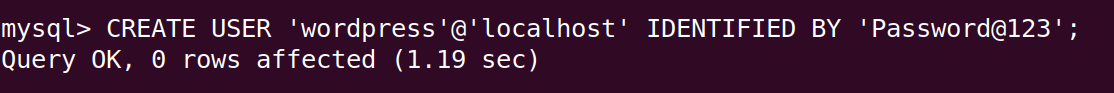
* sudo mysql -u root -p



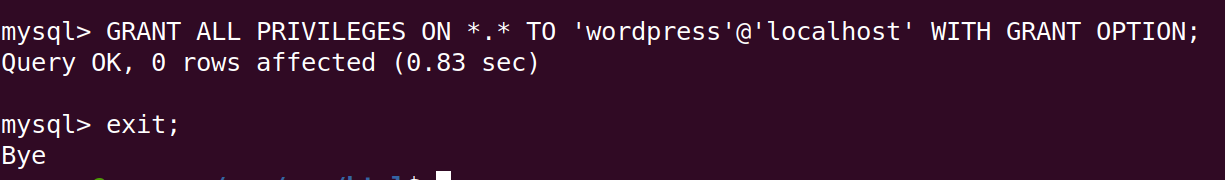
* ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql\_native\_password BY 'Ritik@123456';



* CREATE USER 'wordpress'@'localhost' IDENTIFIED BY 'Password@123';

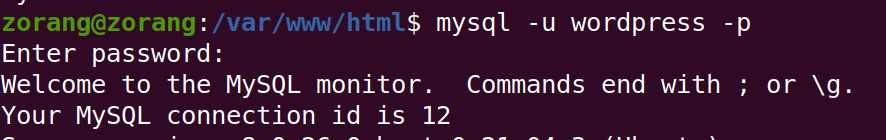


* GRANT ALL PRIVILEGES ON \*.\* TO 'wordpress'@'localhost' WITH GRANT OPTION;

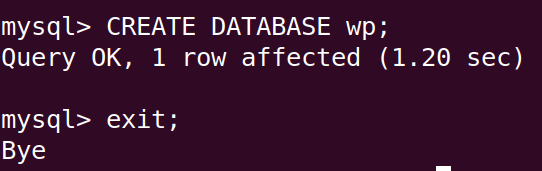


## Step8 - Now Create DataBase for wordpress

* mysql -u wordpress -p

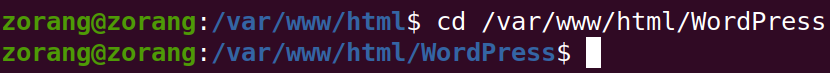
Enter Password - [Password@123](mailto:Password@123) as above we given this password for Wordpress user

* CREATE DATABASE wp;

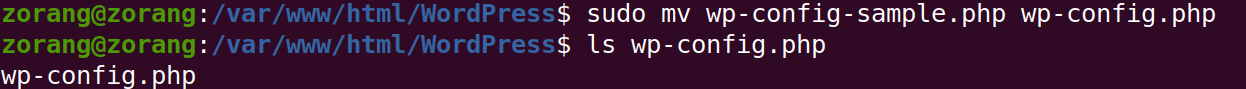


## Step9 - Move sample file to activate it

* cd /var/www/html/wordpress

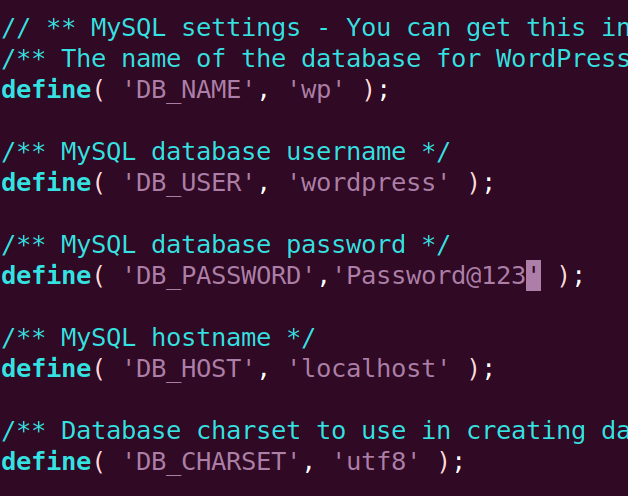


* sudo mv wp-config-sample.php wp-config.php



## Step10 - Now set DataBase User, DataBase Name and DataBase Password in wp-config.php file

* sudo vim wp-config.php



Give db\_name = wp

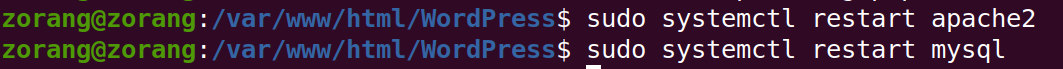
Give db\_user = wordpress

Give db\_password = Password@123

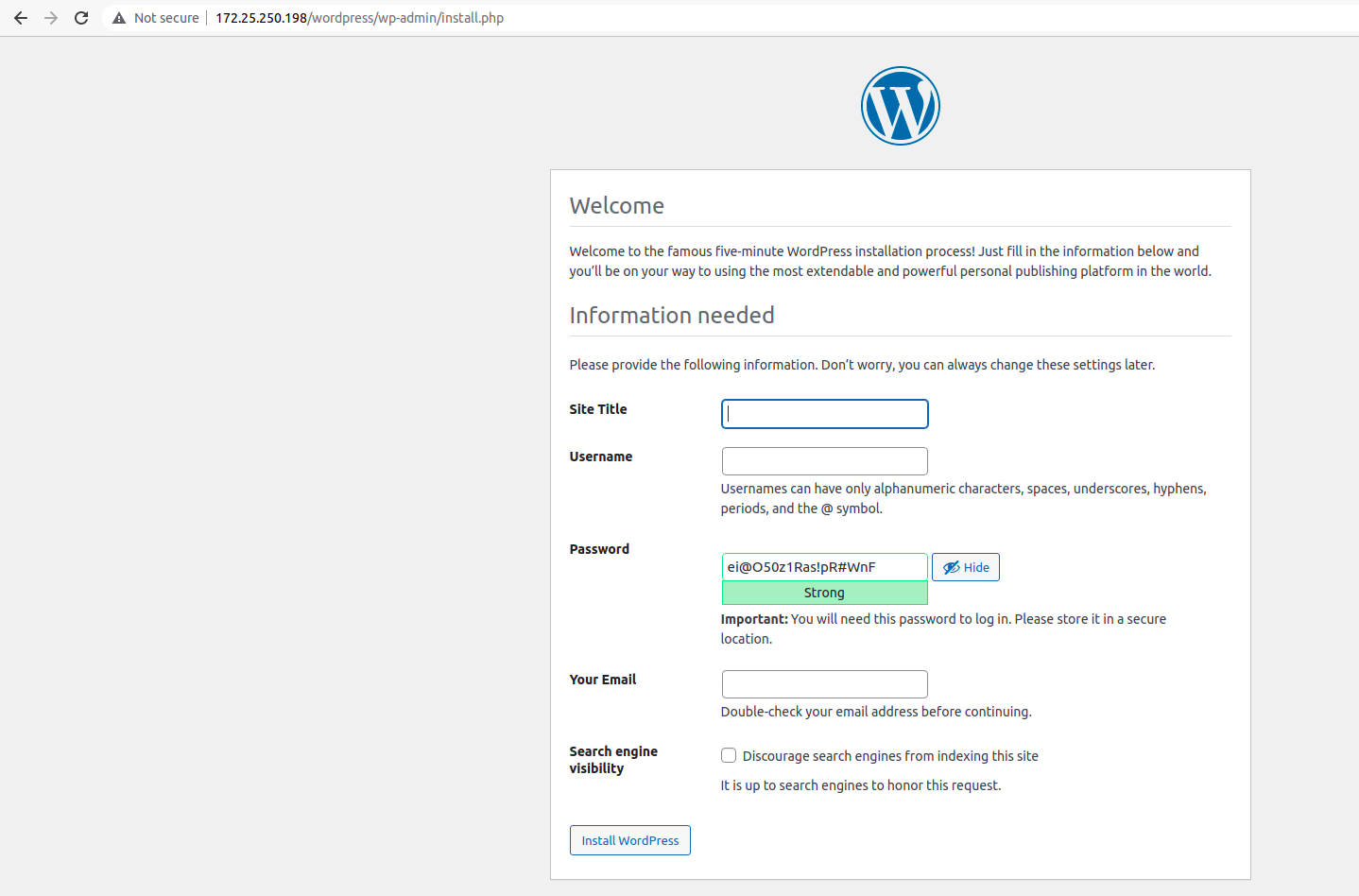
Warning : Do not share your wp-config.php as this file contain you db password

## Step11 - Restart Apache and MySql service

* sudo systemctl restart apache2
* sudo systemctl restart mysql



## Step12 - Go to Browser and type your server ip or server domain name



## You can set below details on your WordPress installation Setup

Site Title = yoursitename

Username = your-username

Password = StrongPassword

Email = your.email@wordpress.com

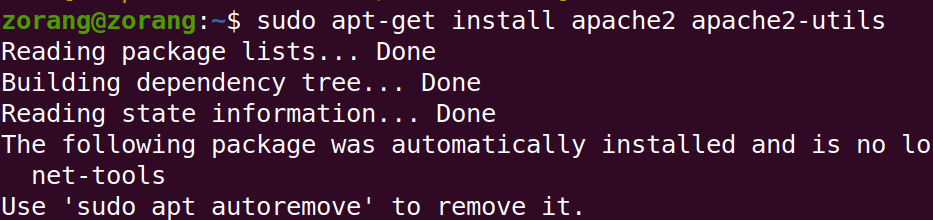
Laravel Installation

## Step1 - First update your system repo

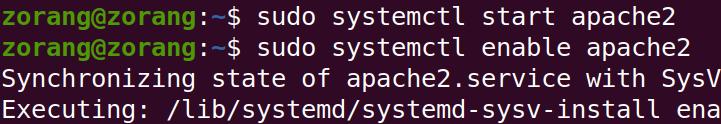
* Sudo apt-get update

## Step2 - Install apache2 and start and enable apache service

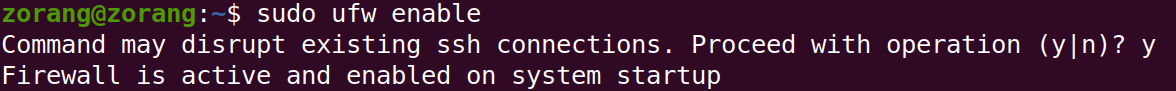
* sudo apt-get install apache2 apache2-utils



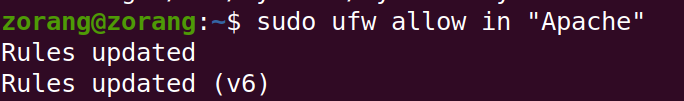
* sudo systemctl start apache2
* sudo systemctl enable apache2

****

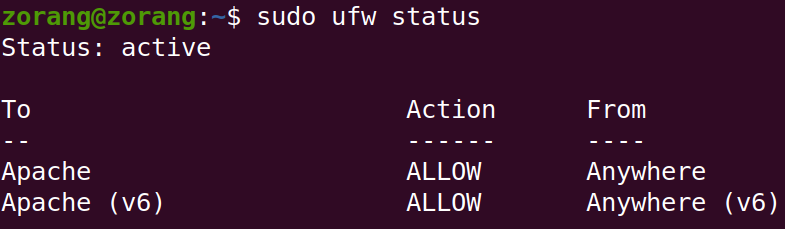
## Step3 - Once you’ve started Apache, you then need to allow HTTP traffic on your UFW firewall



* sudo ufw allow in "Apache"

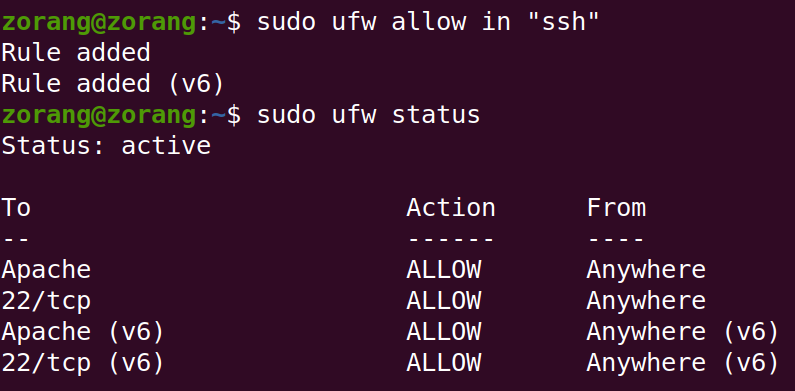


* sudo ufw status

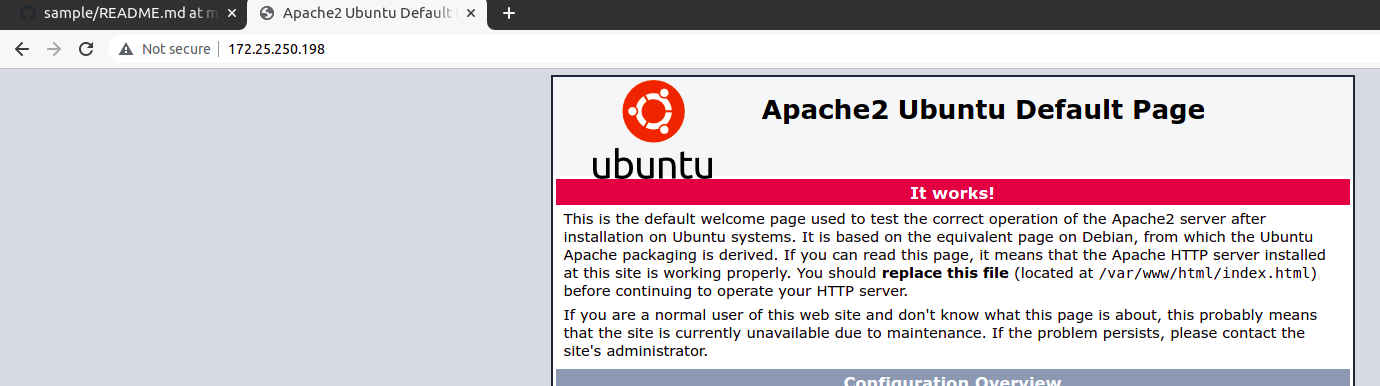


Important - please make sure you allow ssh if your server is

on virtual machine

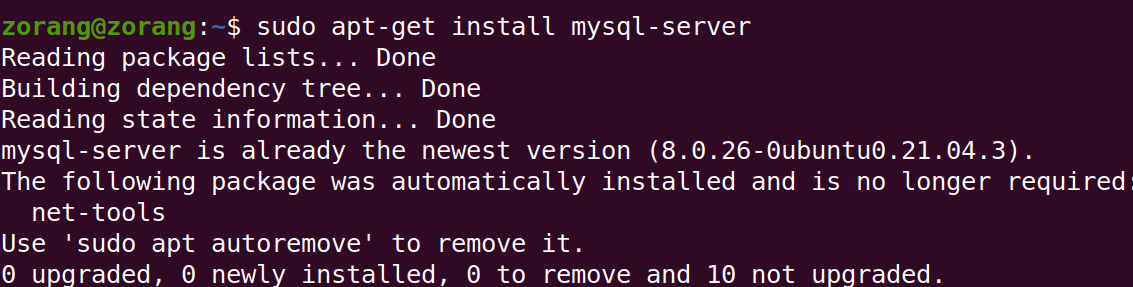


#### To test whether the Apache server is running, open your web browser and enter the following URL in the address bar



## Step4 - Now, Install mysql-server and set password for root

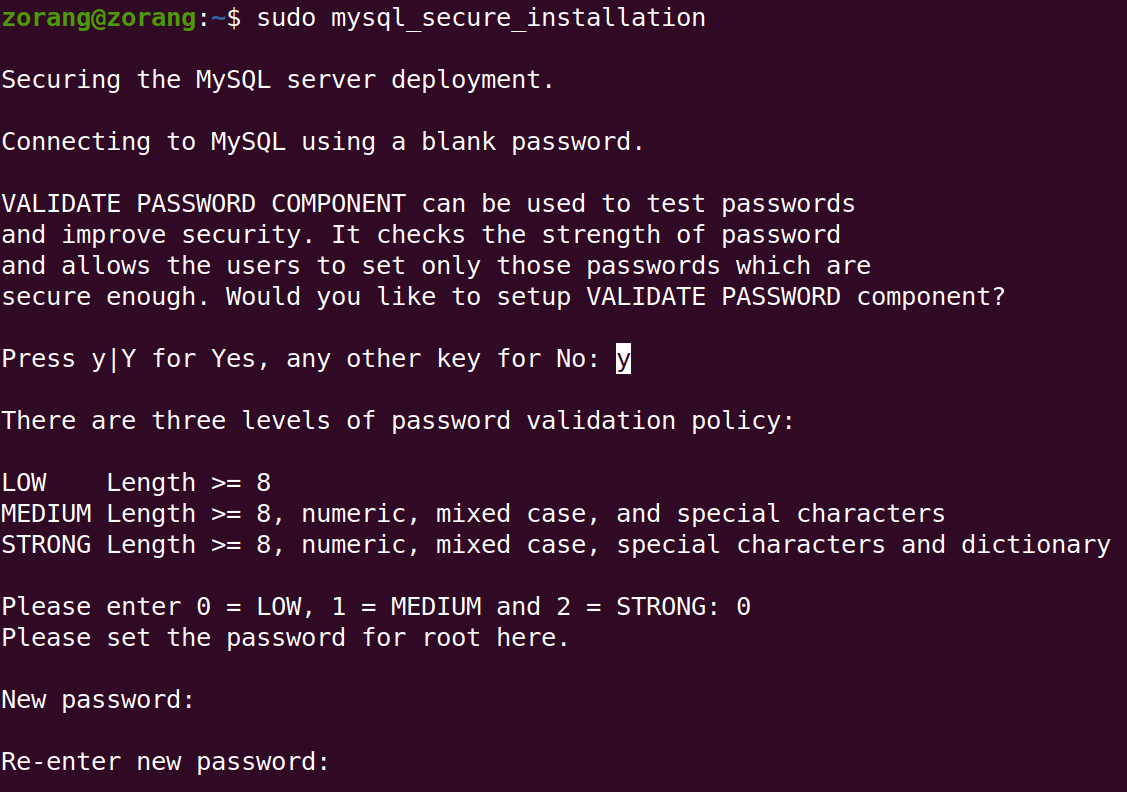
* sudo apt-get install mysql-server



* sudo mysql\_secure\_installation

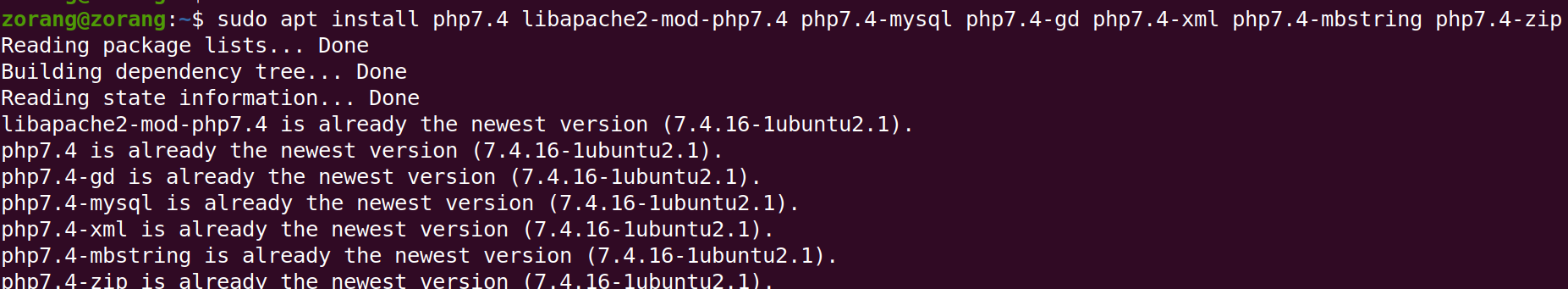
As shown in below image press Y to set root passsword

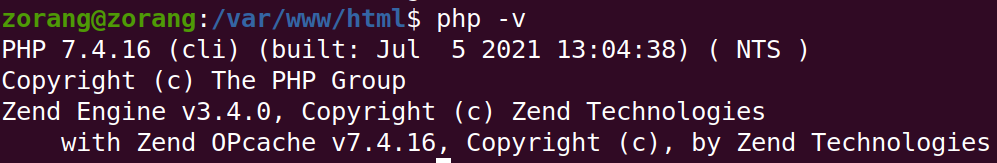
Choose password policy, and set root password like ([Ritik@123456](mailto:Ritik@123456)) and then press y for all.



## Step5 - Install required php7.4 packages

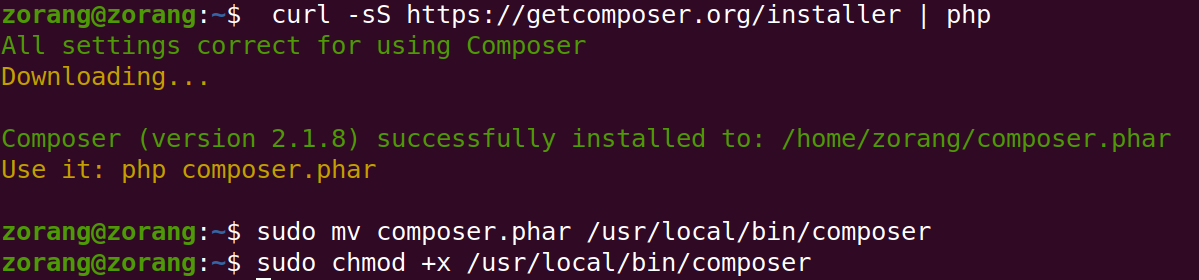
* sudo apt install php7.4 libapache2-mod-php7.4 php7.4-mysql php7.4-gd php7.4-xml php7.4-mbstring php7.4-zip





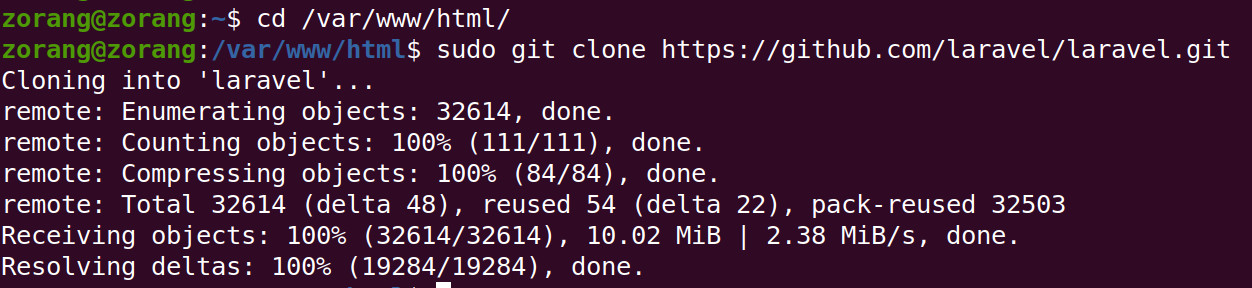
## Step6 - Install composer (required for managing dependencies, libraries for laravel)

* curl -sS https://getcomposer.org/installer | php
* curl -sS https://getcomposer.org/installer | php
* sudo chmod +x /usr/local/bin/composer



## Step7 - Install the latest version of laravel

* cd /var/www/html/
* sudo git clone https://github.com/laravel/laravel.git

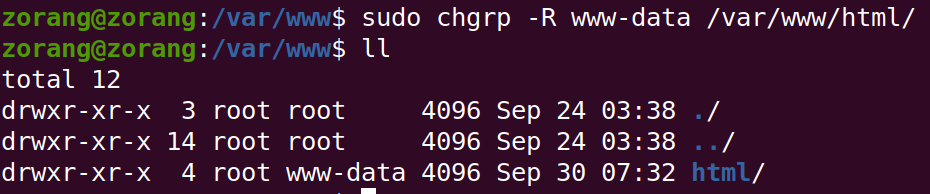


or to install particular version go to laravel github profile

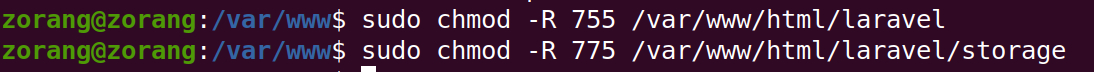
https://github.com/laravel/laravel/releases

## Step8 - Give proper permissions to html dir and laravel dir

* sudo chgrp -R www-data /var/www/html/

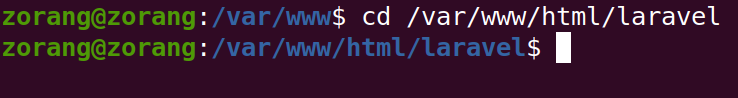


* sudo chmod -R 755 /var/www/html/laravel
* sudo chmod -R 775 /var/www/html/laravel/storage

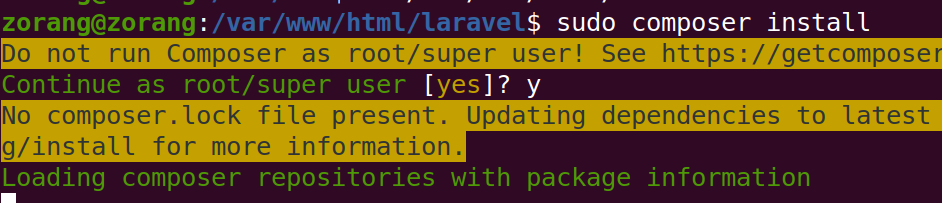


## Step9 - Run composer install to downloads and installs all the libraries and dependencies outlined in laravel dir

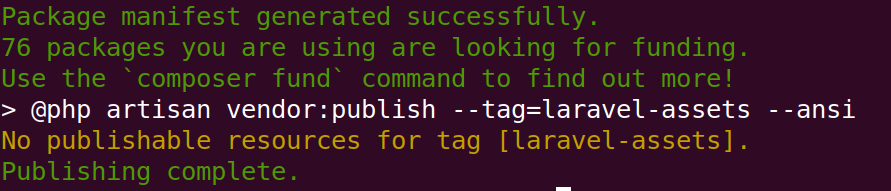
* cd /var/www/html/laravel



* sudo composer install



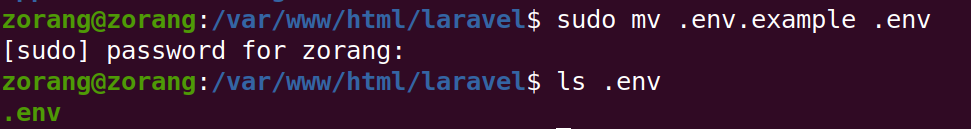
**Wait untill composer install dependencies, libraries for laravel application and after some time it shows complete.**

****

## Step10 - Move .env.example file to .env (It is a environment file to define things such as database connection settings, debug options, application URL, among other items that may vary depending on which environment the application is running.)

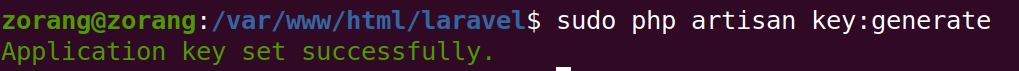
Warning - The environment configuration file contains sensitive information about your server, including database credentials and security keys. For that reason, you should never share this file publicly.

* sudo mv .env.example .env



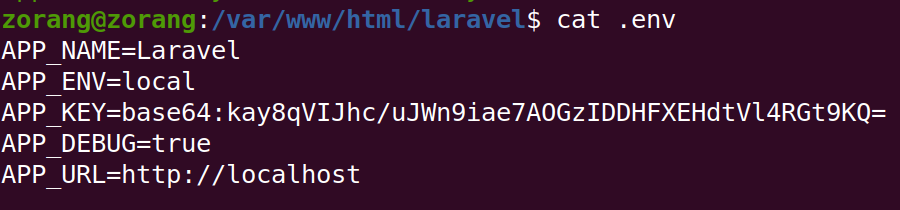
**Step11 - Now generate base64 random number encryption key, which used by the illuminate encrypter service.**

* sudo php artisan key:generate



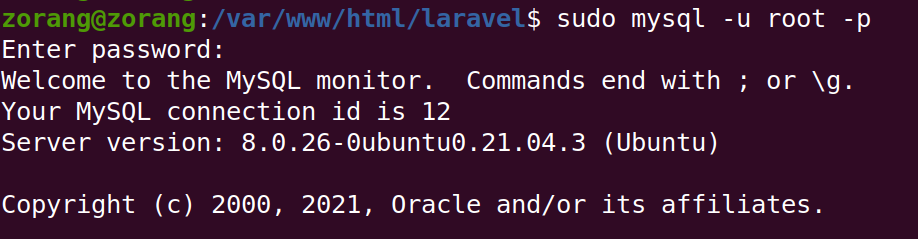
## Step12 - Check the app\_key get base64 ency. or not and you can also change the APP\_NAME with the name of your application and APP\_URL to the URL you need to access your Laravel application.

* cat .env

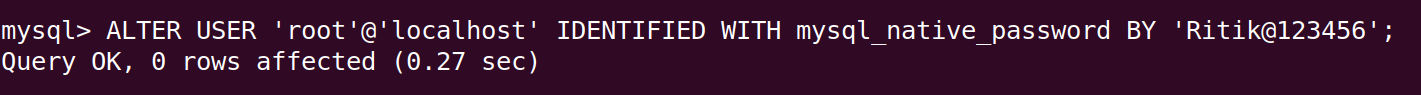


## Step13 - Create user and database for laravel

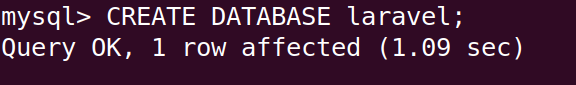
* sudo mysql -u root -p



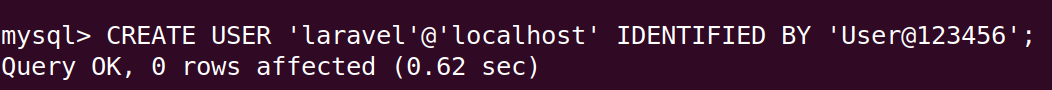
* ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql\_native\_password BY 'Ritik@123456';



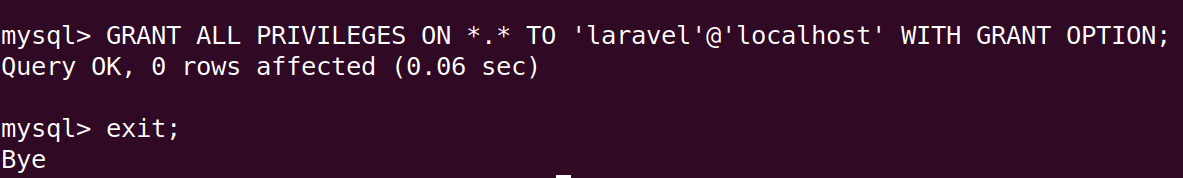
* CREATE DATABASE laravel;



* CREATE USER 'laravel'@'localhost' IDENTIFIED BY 'User@123456';

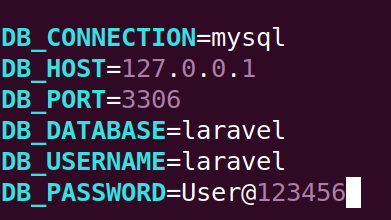


* GRANT ALL PRIVILEGES ON \*.\* TO 'laravel'@'localhost' WITH GRANT OPTION;



## Step14 - Now edit the .env file and update database settings

* sudo vim .env

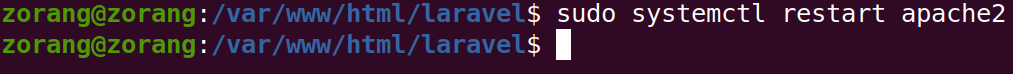


## Step15 - Move Server.php to index.php

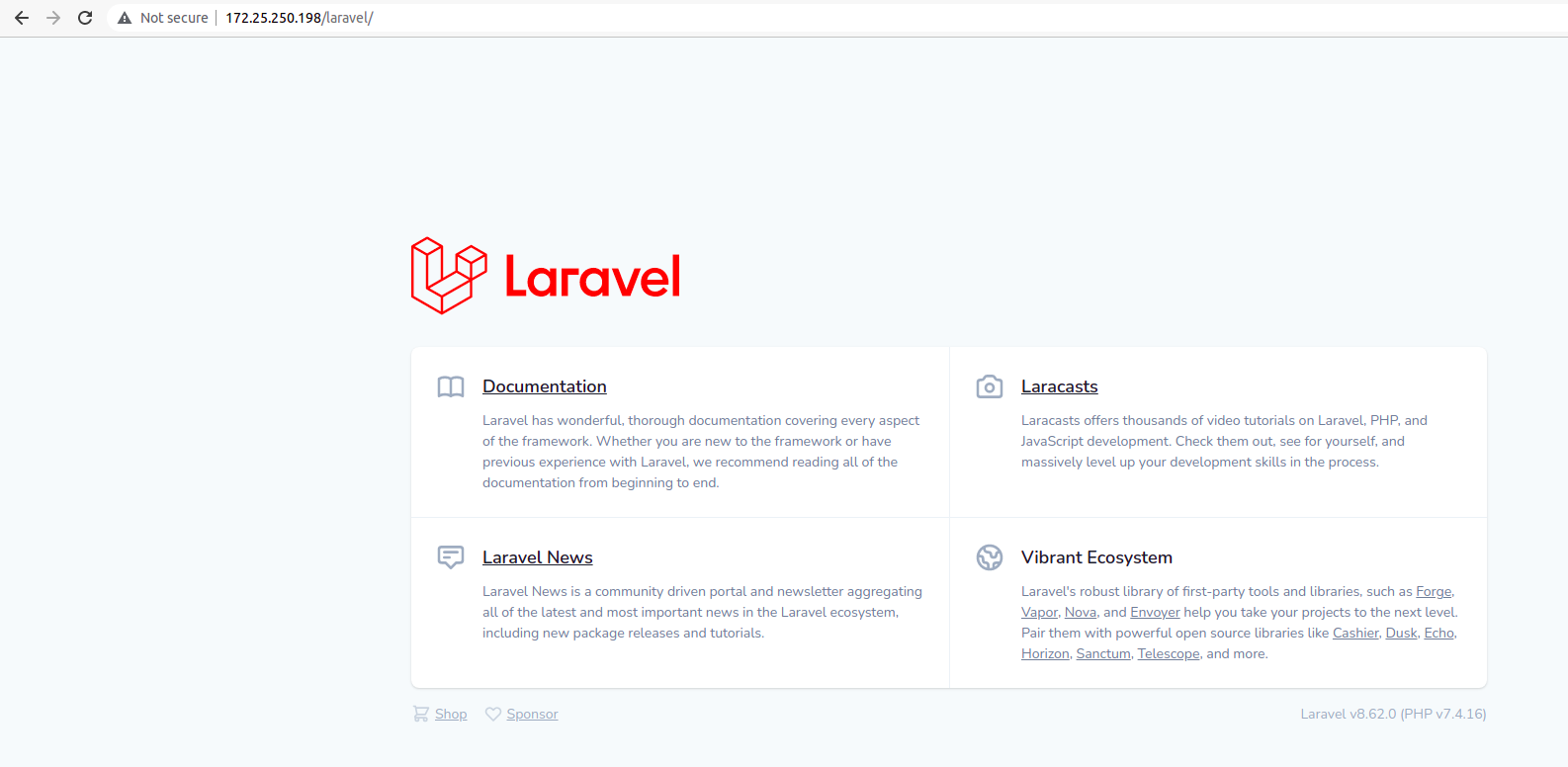
* mv server.php index.php

## Step16 - Restart apache service

* sudo systemctl restart apache2



## Step17 - Go to browser and type your server ip/laravel or

 [**http://Serverdomain/laravel**](http://Serverdomain/laravel)

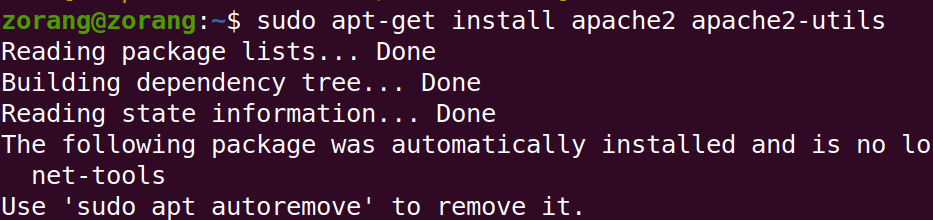
**Magento** Installation

## Step1 - First update your system repo

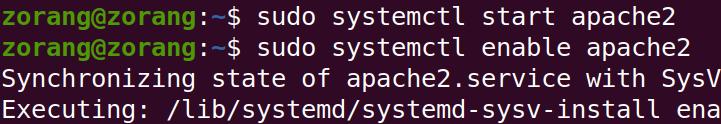
* Sudo apt-get update

## Step2 - Install apache2 and start and enable apache service

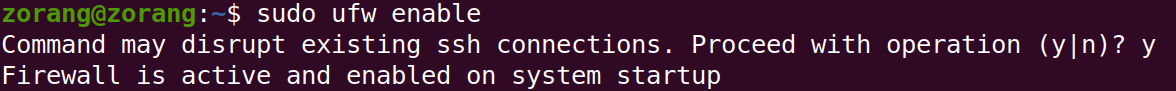
* sudo apt-get install apache2 apache2-utils



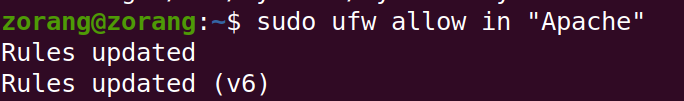
* sudo systemctl start apache2
* sudo systemctl enable apache2



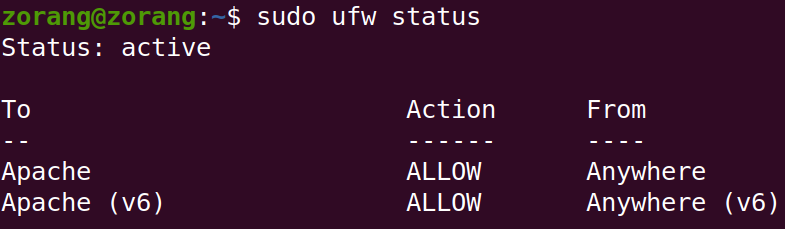
## Step3 - Once you’ve started Apache, you then need to allow HTTP traffic on your UFW firewall



* sudo ufw allow in "Apache"

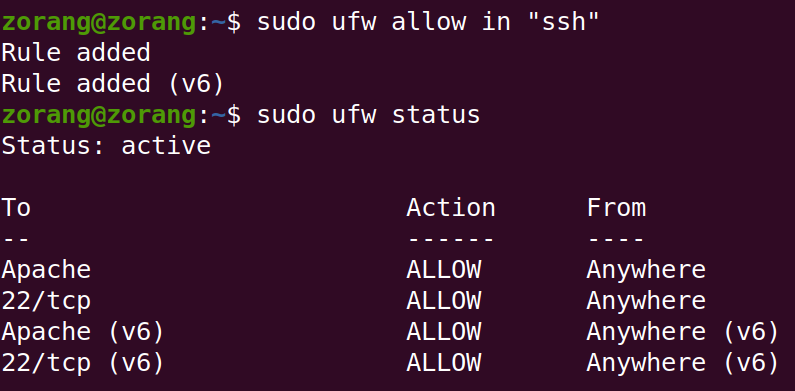


* sudo ufw status

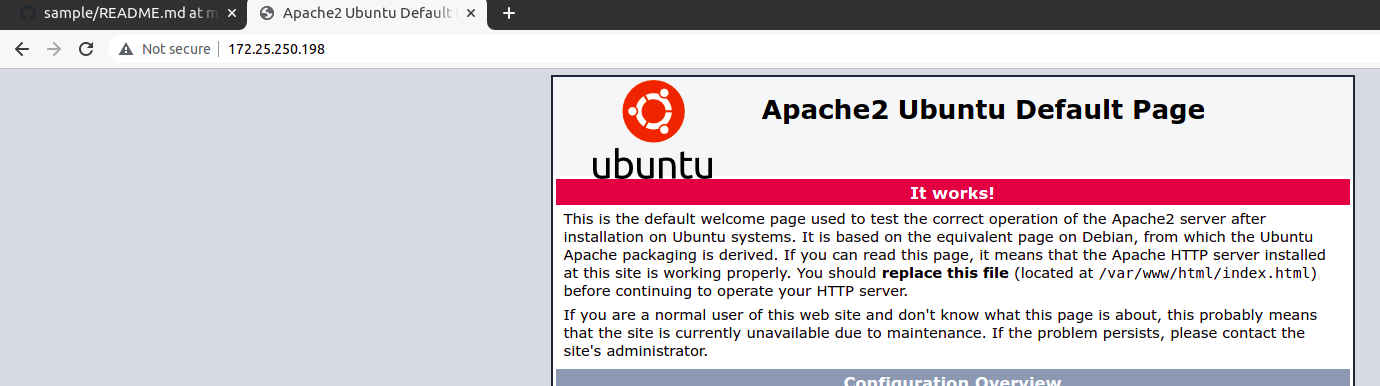


Important - please make sure you allow ssh if your server is

on virtual machine

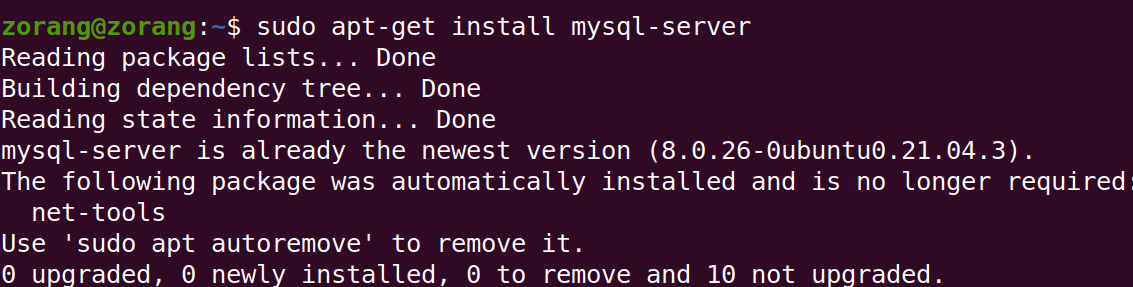


#### To test whether the Apache server is running, open your web browser and enter the following URL in the address bar



## Step4 - Now, Install mysql-server and set password for root

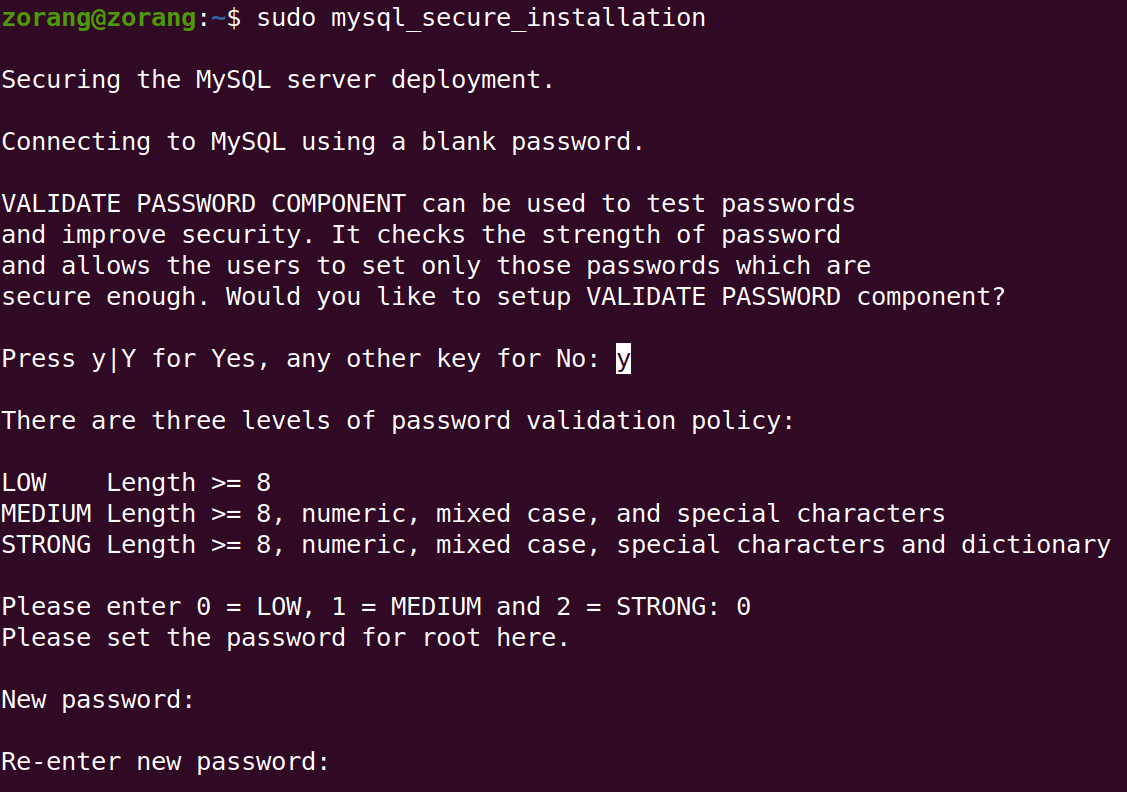
* sudo apt-get install mysql-server



* sudo mysql\_secure\_installation

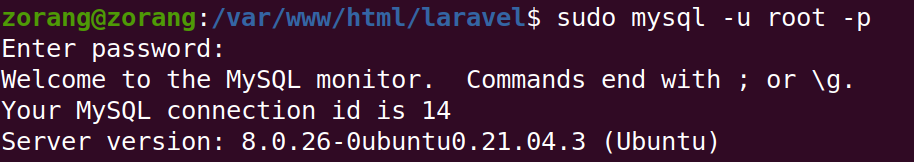
As shown in below image press Y to set root passsword

Choose password policy, and set root password like ([Ritik@123456](mailto:Ritik@123456)) and then press y for all.

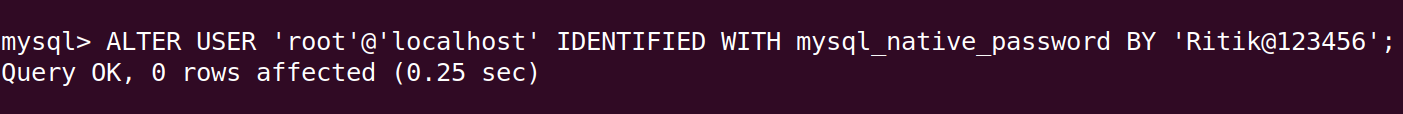


## Step5 - Create user for magento and remember its password and give it permission to create database

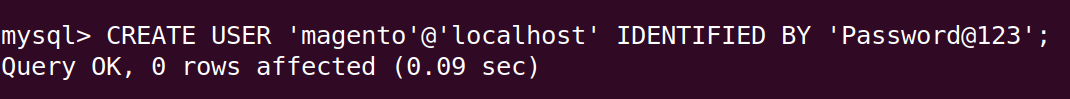
* sudo mysql -u root -p



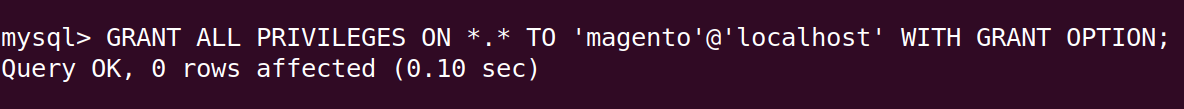
* ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql\_native\_password BY 'Ritik@123456';



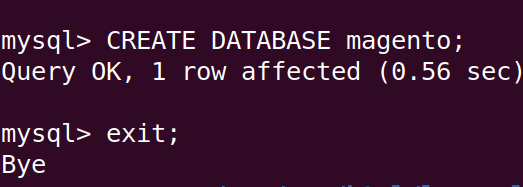
* CREATE USER 'magento'@'localhost' IDENTIFIED BY ['Password@123](mailto:'Password@123)';



* GRANT ALL PRIVILEGES ON \*.\* TO 'magento'@'localhost' WITH GRANT OPTION;

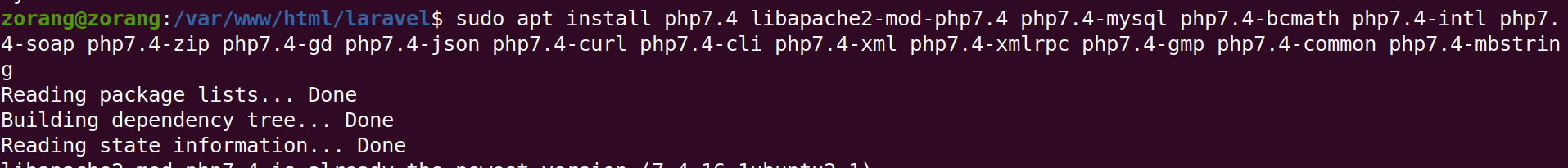


* CREATE DATABASE magento;



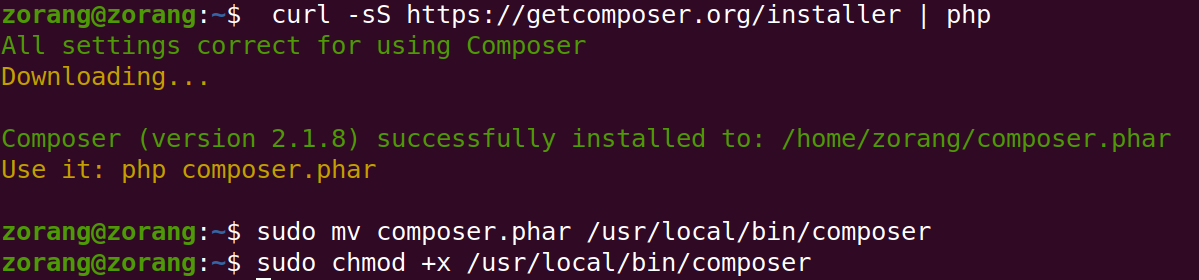
## Step6 - Install required php7.4 packages

* sudo apt install php7.4 libapache2-mod-php7.4 php7.4-mysql php7.4-bcmath php7.4-intl php7.4-soap php7.4-zip php7.4-gd php7.4-json php7.4-curl php7.4-cli php7.4-xml php7.4-xmlrpc php7.4-gmp php7.4-common php7.4-mbstring



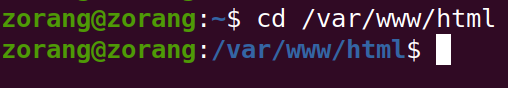
## Step7 - Install composer (required for managing dependencies, libraries for **Magento**)

* curl -sS https://getcomposer.org/installer | php
* curl -sS https://getcomposer.org/installer | php
* sudo chmod +x /usr/local/bin/composer

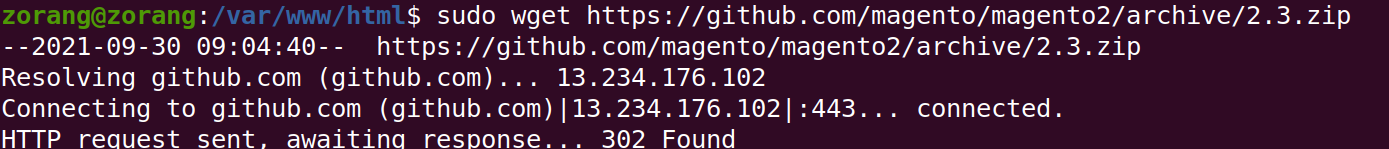


## Step8 - Download the latest version of the Magento from GitHub ( <https://github.com/magento/magento2> ) or from official website(<https://www.mageplaza.com/download-magento/> ).

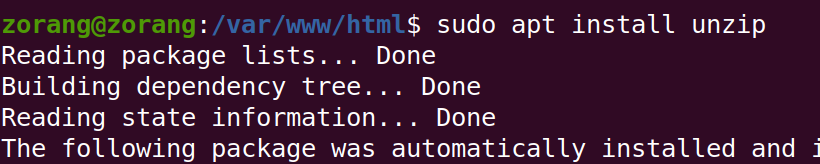
* cd /var/www/html



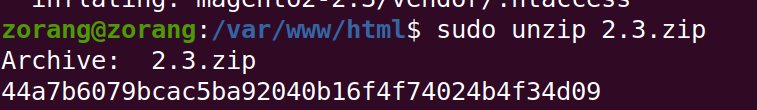
* sudo wget <https://github.com/magento/magento2/archive/2.3.zip>



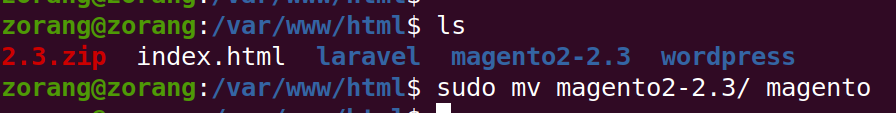
* sudo apt install unzip



* sudo unzip 2.3.zip

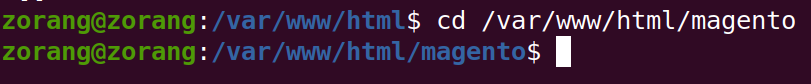


* sudo mv magento2-2.3/ magento

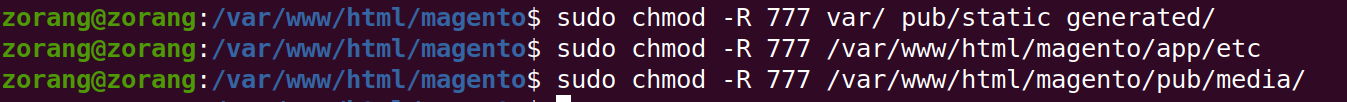


## Step9 - Give proper permission to magento files so that magento application can run

* cd /var/www/html/magento

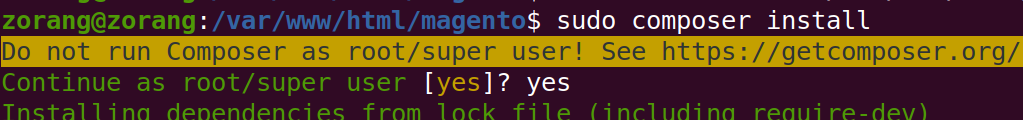


* sudo chmod -R 777 var/ pub/static generated/
* sudo chmod -R 777 /var/www/html/magento/app/etc
* sudo chmod -R 777 /var/www/html/magento/pub/media/



## Step10 - Run composer install to downloads and installs all the libraries and dependencies outlined in Magento dir

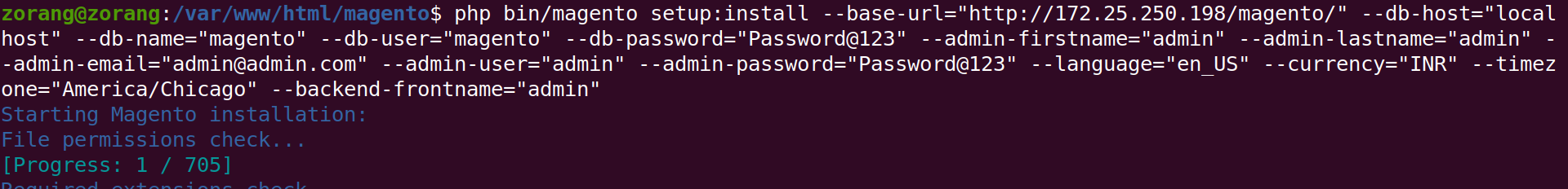
* sudo composer install



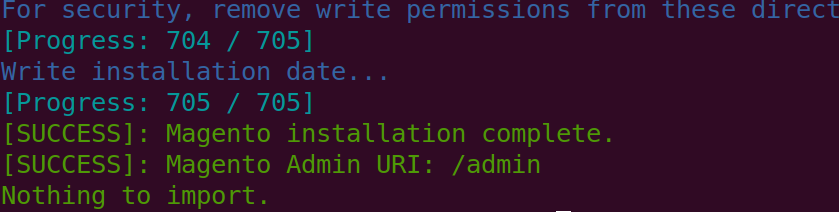
**Step11 - Now run magento application**

 **Edit the information to match your requirements and the configuration of your system:**

* **base-url** - The location (URL) of your store. In this example, the store is installed on the localhost in the magento2.4 sub-directory.
* **db-host -** If Magento is on the same server as your database, use localhost. If you are using a separate database server, enter the hostname of that server.
* **db-name -** The name of the MySQL database created earlier.
* **db-user -** Enter the username of your MySQL user.
* **db-password -** The password for your MySQL user.
* **admin-firstname and admin-lastname -** Set the full name for your Magento admin user.
* **admin-email -** Define a contact email for system notifications and password resets.
* **admin-user / admin-password -** Create the login credentials for the Magento Admin control panel.
* **language -** Defines the default language for your store.
* **currency -** Sets the base currency for your store.
* **timezone -** Regulates the default time zone for Magento.
* php bin/magento setup:install --base-url="http://172.25.250.198/magento/" --db-host="localhost" --db-name="magento" --db-user="magento" --db-password="Password@123" --admin-firstname="admin" --admin-lastname="admin" --admin-email="admin@admin.com" --admin-user="admin" --admin-password="Password@123" --language="en\_US" --currency="INR" --timezone="America/Chicago" --backend-frontname="admin"

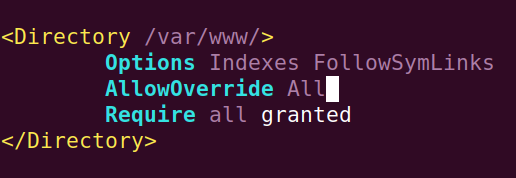


**After some minutes magento installation is completed -**



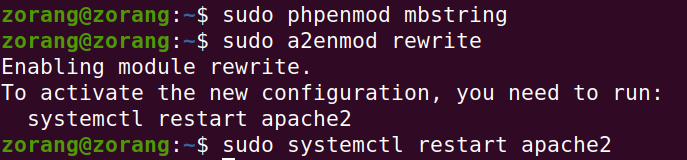
## Step12 - To run magento properly allow dir

sudo vim /etc/apache2/apache2.conf



## Step13 - Enable mbstring module and restart apache service

* sudo phpenmod mbstring
* sudo a2enmod rewrite
* sudo systemctl restart apache2



## Step14 - Go to browser and type the url

## ( <http://ip/magento/admin> ) or

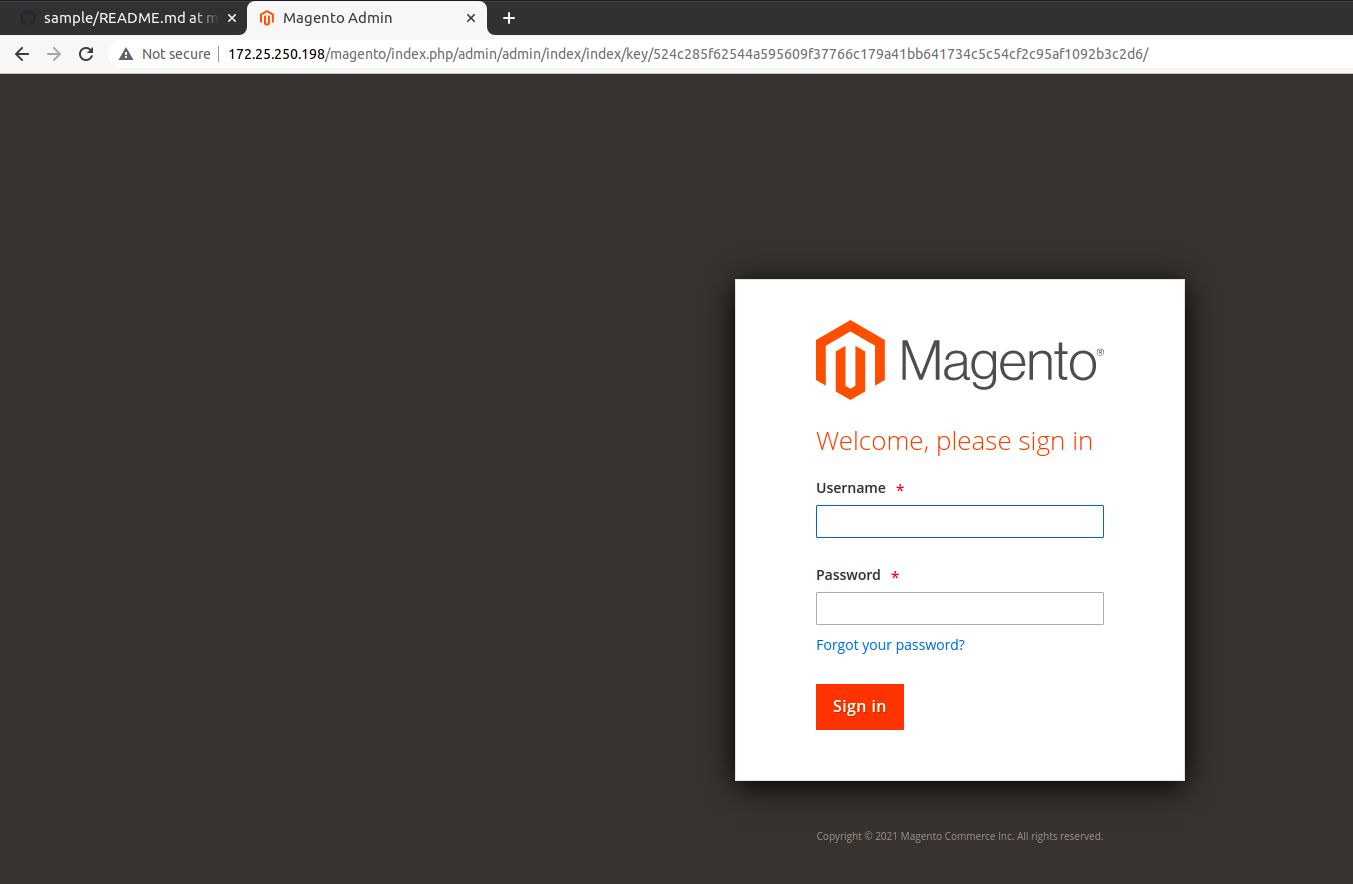
## ( http://domainname/magento/admin ) as show below and username and password is

**Username = admin**

**Password =** **Password@123**

**when you set while running magento as shown in below**

* php bin/magento setup:install --base-url="http://172.25.250.198/magento/" --db-host="localhost" --db-name="magento" --db-user="magento" --db-password="Password@123" --admin-firstname="admin" --admin-lastname="admin" --admin-email="admin@admin.com" --admin-user="admin" --admin-password="Password@123" --language="en\_US" --currency="INR" --timezone="America/Chicago" --backend-frontname="admin"



**Security Tips**

Please visit below url to secure your web server

[https://github.com/RG-linux-lover/WordPress-Laravel-Magento-Installation/tree/master/Security%20tips](https://github.com/RG-linux-lover/WordPress-Laravel-Magento-Installation/tree/master/Security tips)