

NETWORKING & SYSTEM ADMINISTRATION LAB

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Roll No: 49

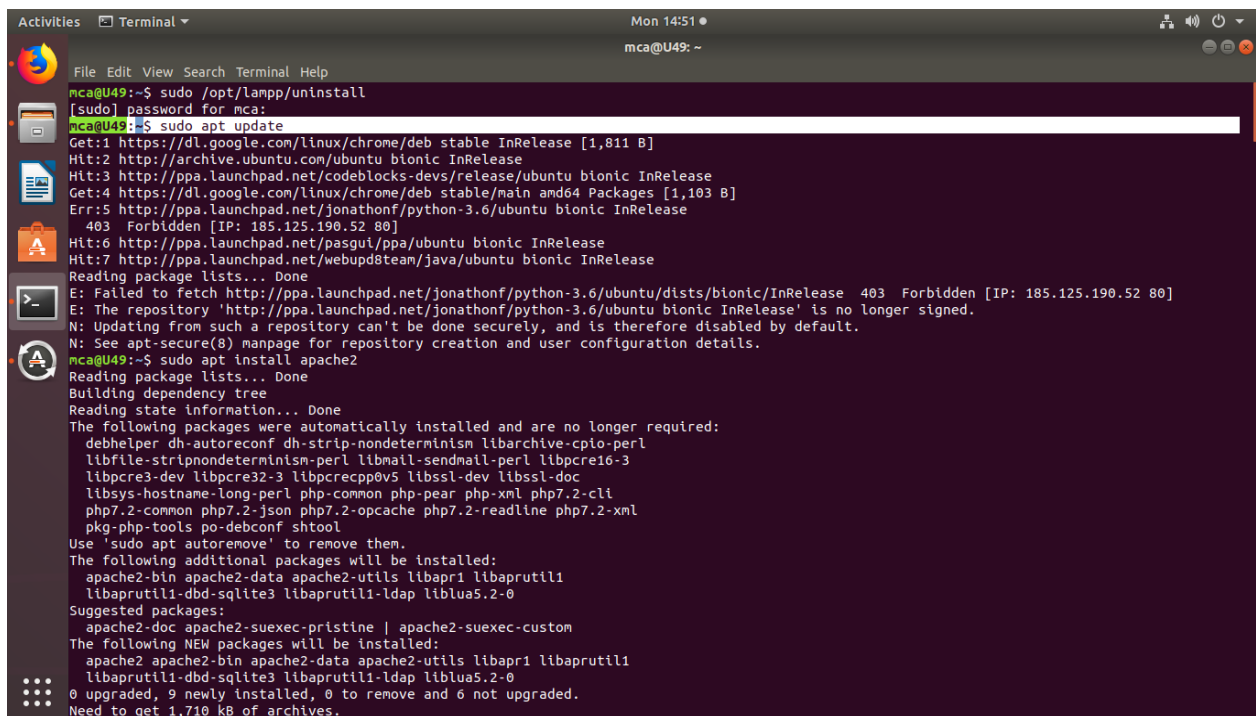
Batch: MCA -A

Date: 23/05/2022

Install LAMP in Ubuntu

1. Update your system

- **sudo apt update**



```
mca@U49:~$ sudo /opt/lampp/uninstall
[sudo] password for mca:
mca@U49:~$ sudo apt update
Get:1 https://dl.google.com/linux/chrome/deb stable InRelease [1,811 B]
Hit:2 http://archive.ubuntu.com/ubuntu bionic InRelease
Hit:3 http://ppa.launchpad.net/codeblocks-devs/release/ubuntu bionic InRelease
Get:4 https://dl.google.com/linux/chrome/deb stable/main amd64 Packages [1,103 B]
Err:5 http://ppa.launchpad.net/jonathonf/python-3.6/ubuntu bionic InRelease
403 Forbidden [IP: 185.125.190.52 80]
Hit:6 http://ppa.launchpad.net/pasgui/ppa/ubuntu bionic InRelease
Hit:7 http://ppa.launchpad.net/webupd8team/java/ubuntu bionic InRelease
Reading package lists... Done
E: Failed to fetch http://ppa.launchpad.net/jonathonf/python-3.6/ubuntu/dists/bionic/InRelease 403 Forbidden [IP: 185.125.190.52 80]
E: The repository 'http://ppa.launchpad.net/jonathonf/python-3.6/ubuntu bionic InRelease' is no longer signed.
N: Updating from such a repository can't be done securely, and is therefore disabled by default.
N: See apt-secure(8) manpage for repository creation and user configuration details.
mca@U49:~$ sudo apt install apache2
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
debhelper dh-autoreconf dh-strip-nondeterminism libarchive-cpio-perl
libfile-stripnondeterminism-perl libmail-sendmail-perl libpcre16-3
libpcre3-dev libpcre32-3 libpcrecpp0v5 libssl-dev libssl-doc
libsys-hostname-long-perl php-common php-pear php-xml php7.2-cli
php7.2-common php7.2-json php7.2-opcache php7.2-readline php7.2-xml
pkg-php-tools po-debconf shtool
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
apache2-bin apache2-data apache2-utils libapr1 libaprutil1
libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.2-0
Suggested packages:
apache2-doc apache2-suexec-pristine | apache2-suexec-custom
The following NEW packages will be installed:
apache2 apache2-bin apache2-data apache2-utils libapr1 libaprutil1
libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.2-0
0 upgraded, 9 newly installed, 0 to remove and 6 not upgraded.
Need to get 1,710 kB of archives.
```

2. Install Apache using apt:

- **sudo apt install apache2**

```

mca@U49: ~
mca@U49:~$ sudo /opt/lampp/uninstall
[sudo] password for mca:
mca@U49:~$ sudo apt update
Get:1 https://dl.google.com/linux/chrome/deb stable InRelease [1,811 B]
Hit:2 http://archive.ubuntu.com/ubuntu bionic InRelease
Hit:3 http://ppa.launchpad.net/codeblocks-devs/release/ubuntu bionic InRelease
Get:4 https://dl.google.com/linux/chrome/deb stable/main amd64 Packages [1,103 B]
Err:5 http://ppa.launchpad.net/jonathonf/python-3.6/ubuntu bionic InRelease
 403 Forbidden [IP: 185.125.190.52 80]
Hit:6 http://ppa.launchpad.net/pasgu/pa/ubuntu bionic InRelease
Hit:7 http://ppa.launchpad.net/webupd8team/java/ubuntu bionic InRelease
Reading package lists... Done
E: Failed to fetch http://ppa.launchpad.net/jonathonf/python-3.6/ubuntu/dists/bionic/InRelease 403 Forbidden [IP: 185.125.190.52 80]
E: The repository 'http://ppa.launchpad.net/jonathonf/python-3.6/ubuntu bionic InRelease' is no longer signed.
N: Updating from such a repository can't be done securely, and is therefore disabled by default.
N: See apt-secure(8) manpage for repository creation and user configuration details.
mca@U49:~$ sudo apt install apache2
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
debhelper dh-autoreconf dh-strip-nondeterminism libarchive-cpio-perl
libfile-stripnondeterminism-perl libmail-sendmail-perl libpcre16-3
libpcre3-dev libpcre32-3 libpcrecpp0v5 libssl-dev libssl-doc
libsys-hostname-long-perl php-common php-pear php-xml php7.2-cli
php7.2-common php7.2-json php7.2-opcache php7.2-readline php7.2-xml
pkg-php-tools po-debconf shtool
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
apache2-bin apache2-data apache2-utils libapr1 libaprutil1
libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.2-0
Suggested packages:
apache2-doc apache2-suexec-pristine | apache2-suexec-custom
The following NEW packages will be installed:
apache2 apache2-bin apache2-data apache2-utils libapr1 libaprutil1
libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.2-0
0 upgraded, 9 newly installed, 0 to remove and 6 not upgraded.
Need to get 1,710 kB of archives.

```

3. Confirm that Apache is now running with the following command:

- **sudo systemctl status apache2**

```

mca@U49: ~
mca@U49:~$ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset:
   Drop-In: /lib/systemd/system/apache2.service.d
            └─apache2-systemd.conf
   Active: active (running) since Mon 2022-05-23 14:27:32 IST; 10min ago
     Main PID: 4811 (apache2)
       Tasks: 55 (limit: 4915)
    CGroup: /system.slice/apache2.service
            └─4811 /usr/sbin/apache2 -k start
               4812 /usr/sbin/apache2 -k start
               4813 /usr/sbin/apache2 -k start

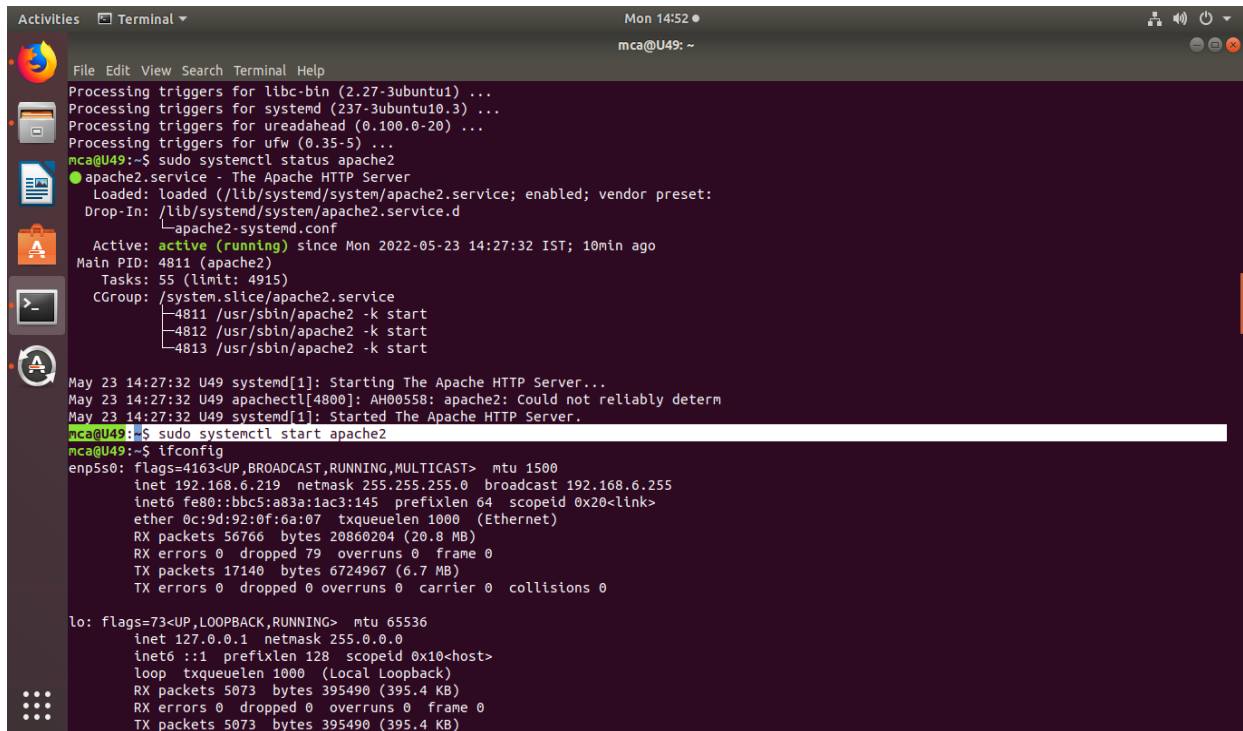
May 23 14:27:32 U49 systemd[1]: Starting The Apache HTTP Server...
May 23 14:27:32 U49 apachectl[4800]: AH00558: apache2: Could not reliably determ
May 23 14:27:32 U49 systemd[1]: Started The Apache HTTP Server.
mca@U49:~$ sudo systemctl start apache2
mca@U49:~$ ifconfig
enp5s0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.6.219 netmask 255.255.255.0 broadcast 192.168.6.255
    inet6 fe80::bbc5:a83a:1ac3:145 prefixlen 64 scopeid 0x20<link>
    ether 0c:9d:92:0f:6a:07 txqueuelen 1000 (Ethernet)
    RX packets 56766 bytes 20860204 (20.8 MB)
    RX errors 0 dropped 79 overruns 0 frame 0
    TX packets 17140 bytes 6724967 (6.7 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 5073 bytes 395490 (395.4 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 5073 bytes 395490 (395.4 KB)

```

4. if it is not working

- **sudo systemctl start apache2**



```

Activities  Terminal  Mon 14:52
mca@U49: ~

File Edit View Search Terminal Help

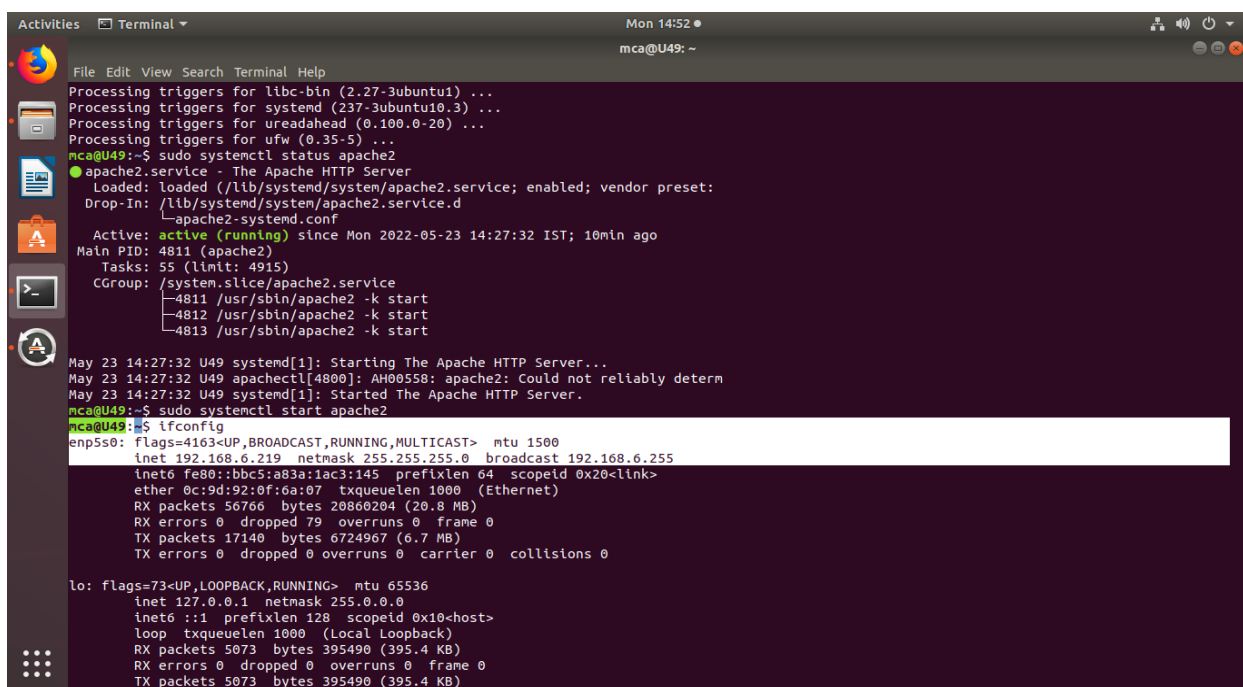
Processing triggers for libc-bin (2.27-3ubuntu1) ...
Processing triggers for systemd (237-3ubuntu10.3) ...
Processing triggers for ureadahead (0.100.0-20) ...
Processing triggers for ufw (0.35-5) ...
mca@U49:~$ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset:
   Drop-In: /lib/systemd/system/apache2.service.d
            └─apache2-systemd.conf
   Active: active (running) since Mon 2022-05-23 14:27:32 IST; 10min ago
     Main PID: 4811 (apache2)
       Tasks: 55 (limit: 4915)
      CGroup: /system.slice/apache2.service
              └─4811 /usr/sbin/apache2 -k start
                 4812 /usr/sbin/apache2 -k start
                 4813 /usr/sbin/apache2 -k start

May 23 14:27:32 U49 systemd[1]: Starting The Apache HTTP Server...
May 23 14:27:32 U49 apachectl[4800]: AH00558: apache2: Could not reliably determ
May 23 14:27:32 U49 systemd[1]: Started The Apache HTTP Server.
mca@U49:~$ sudo systemctl start apache2
mca@U49:~$ ifconfig
enp5s0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.6.219  netmask 255.255.255.0  broadcast 192.168.6.255
        inet6 fe80::bbc5:a83a:1ac3:145  prefixlen 64  scopeid 0x20<link>
        ether 0c:9d:92:0f:6a:07  txqueuelen 1000  (Ethernet)
        RX packets 56766  bytes 20860204 (20.8 MB)
        RX errors 0  dropped 79  overruns 0  frame 0
        TX packets 17140  bytes 6724967 (6.7 MB)
        TX errors 0  dropped 0  overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        inet6 ::1  prefixlen 128  scopeid 0x10<host>
        loop txqueuelen 1000  (Local Loopback)
        RX packets 5073  bytes 395490 (395.4 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 5073  bytes 395490 (395.4 KB)
  
```

5. Once installed, test by accessing your server's IP in your browser:

- <http://youripaddress> (find out your ip address using ifconfig)



```

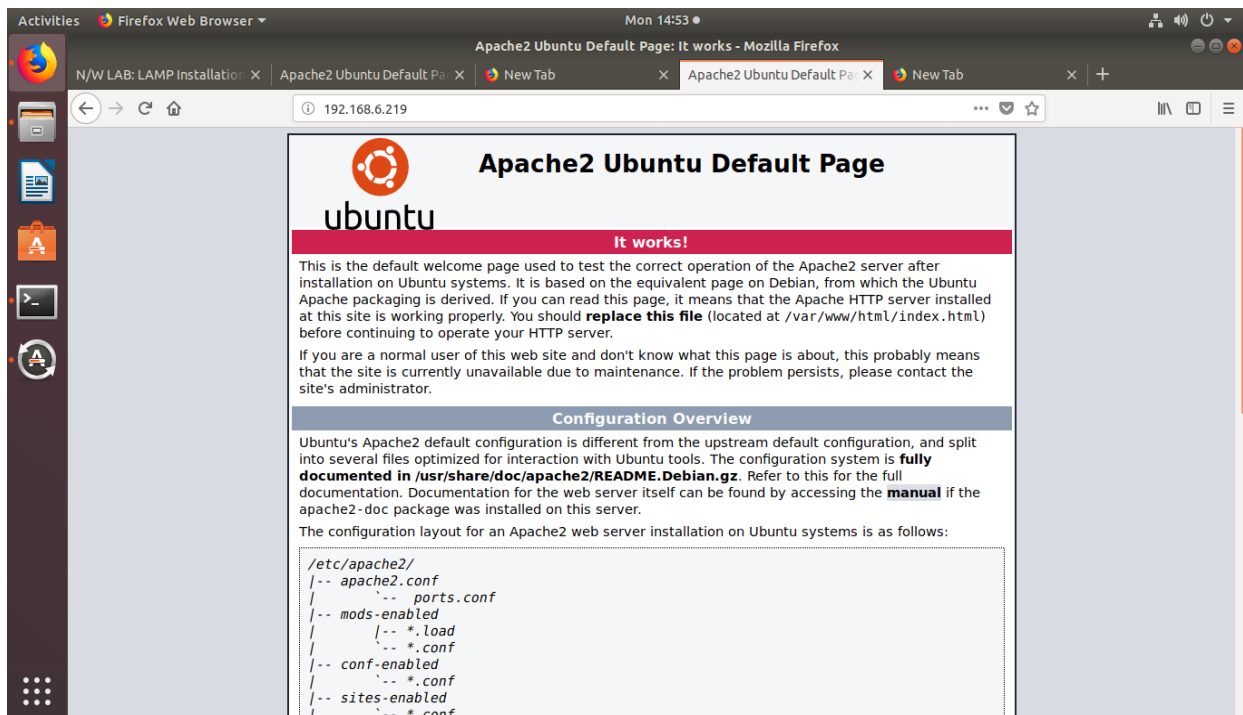
Activities  Terminal  Mon 14:52
mca@U49: ~

File Edit View Search Terminal Help

Processing triggers for libc-bin (2.27-3ubuntu1) ...
Processing triggers for systemd (237-3ubuntu10.3) ...
Processing triggers for ureadahead (0.100.0-20) ...
Processing triggers for ufw (0.35-5) ...
mca@U49:~$ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset:
   Drop-In: /lib/systemd/system/apache2.service.d
            └─apache2-systemd.conf
   Active: active (running) since Mon 2022-05-23 14:27:32 IST; 10min ago
     Main PID: 4811 (apache2)
       Tasks: 55 (limit: 4915)
      CGroup: /system.slice/apache2.service
              └─4811 /usr/sbin/apache2 -k start
                 4812 /usr/sbin/apache2 -k start
                 4813 /usr/sbin/apache2 -k start

May 23 14:27:32 U49 systemd[1]: Starting The Apache HTTP Server...
May 23 14:27:32 U49 apachectl[4800]: AH00558: apache2: Could not reliably determ
May 23 14:27:32 U49 systemd[1]: Started The Apache HTTP Server.
mca@U49:~$ sudo systemctl start apache2
mca@U49:~$ ifconfig
enp5s0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.6.219  netmask 255.255.255.0  broadcast 192.168.6.255
        inet6 fe80::bbc5:a83a:1ac3:145  prefixlen 64  scopeid 0x20<link>
        ether 0c:9d:92:0f:6a:07  txqueuelen 1000  (Ethernet)
        RX packets 56766  bytes 20860204 (20.8 MB)
        RX errors 0  dropped 79  overruns 0  frame 0
        TX packets 17140  bytes 6724967 (6.7 MB)
        TX errors 0  dropped 0  overruns 0  carrier 0  collisions 0

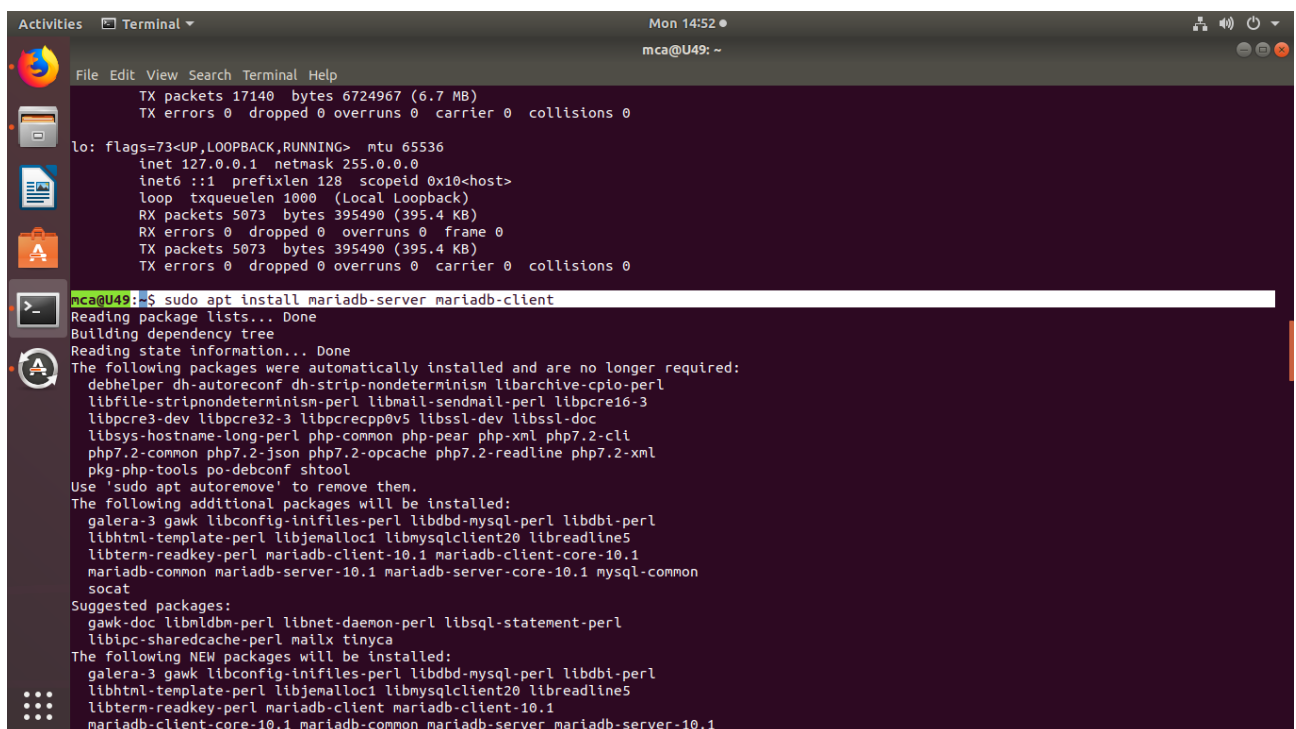
lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        inet6 ::1  prefixlen 128  scopeid 0x10<host>
        loop txqueuelen 1000  (Local Loopback)
        RX packets 5073  bytes 395490 (395.4 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 5073  bytes 395490 (395.4 KB)
  
```



Install mariadb

(MariaDB is a fork of MySQL from some of the original MySQL team and is a drop-in replacement.)

- **sudo apt install mariadb-server mariadb-client**



Check mariadb Installation

- `sudo systemctl status mysql`

```

Setting up mariadb-client-10.1 (1:10.1.29-6) ...
Setting up mariadb-client (1:10.1.29-6) ...
Setting up mariadb-server-10.1 (1:10.1.29-6) ...
Created symlink /etc/systemd/system/mysql.service → /lib/systemd/system/mariadb.service.
Created symlink /etc/systemd/system/mysqld.service → /lib/systemd/system/mariadb.service.
Created symlink /etc/systemd/system/multi-user.target.wants/mariadb.service → /lib/systemd/system/mariadb.service.
Setting up mariadb-server (1:10.1.29-6) ...
Processing triggers for libc-bin (2.27-3ubuntu1) ...
Processing triggers for systemd (237-3ubuntu10.3) ...
Processing triggers for ureadahead (0.100.0-20) ...
mca@U49:~$ sudo systemctl status mysql
● mariadb.service - MariaDB database server
   Loaded: loaded (/lib/systemd/system/mariadb.service; enabled; vendor preset:
   Active: active (running) since Mon 2022-05-23 14:46:11 IST; 49s ago
     Main PID: 7151 (mysqld)
    Status: "Taking your SQL requests now..."
       Tasks: 27 (limit: 4915)
      CGroup: /system.slice/mariadb.service
              └─7151 /usr/sbin/mysqld

May 23 14:46:14 U49 /etc/mysql/debian-start[7184]: Processing databases
May 23 14:46:14 U49 /etc/mysql/debian-start[7184]: information_schema
May 23 14:46:14 U49 /etc/mysql/debian-start[7184]: mysql
May 23 14:46:14 U49 /etc/mysql/debian-start[7184]: performance_schema
May 23 14:46:14 U49 /etc/mysql/debian-start[7184]: Phase 6/7: Checking and upgra
May 23 14:46:14 U49 /etc/mysql/debian-start[7184]: Processing databases
May 23 14:46:14 U49 /etc/mysql/debian-start[7184]: information_schema
May 23 14:46:14 U49 /etc/mysql/debian-start[7184]: performance_schema
May 23 14:46:14 U49 /etc/mysql/debian-start[7184]: Phase 7/7: Running 'FLUSH PRI
May 23 14:46:14 U49 /etc/mysql/debian-start[7184]: OK
lines 1-19/19 (END) ... skipping...
● mariadb.service - MariaDB database server
   Loaded: loaded (/lib/systemd/system/mariadb.service; enabled; vendor preset: enabled)
   Active: active (running) since Mon 2022-05-23 14:46:11 IST; 49s ago
     Main PID: 7151 (mysqld)
    Status: "Taking your SQL requests now..."
       Tasks: 27 (limit: 4915)
      CGroup: /system.slice/mariadb.service

```

(if it is not working : `sudo systemctl start mysql`)

Secure your newly installed MariaDB service:

- `sudo mysql_secure_installation`

```

mca@U49:~$ sudo mysql_secure_installation

NOTE: RUNNING ALL PARTS OF THIS SCRIPT IS RECOMMENDED FOR ALL MariaDB
SERVERS IN PRODUCTION USE!  PLEASE READ EACH STEP CAREFULLY!

In order to log into MariaDB to secure it, we'll need the current
password for the root user.  If you've just installed MariaDB, and
you haven't set the root password yet, the password will be blank,
so you should just press enter here.

Enter current password for root (enter for none):
OK, successfully used password, moving on...

Setting the root password ensures that nobody can log into the MariaDB
root user without the proper authorisation.

Set root password? [Y/n] n
... skipping.

By default, a MariaDB installation has an anonymous user, allowing anyone
to log into MariaDB without having to have a user account created for
them.  This is intended only for testing, and to make the installation
go a bit smoother.  You should remove them before moving into a
production environment.

Remove anonymous users? [Y/n] n
... skipping.

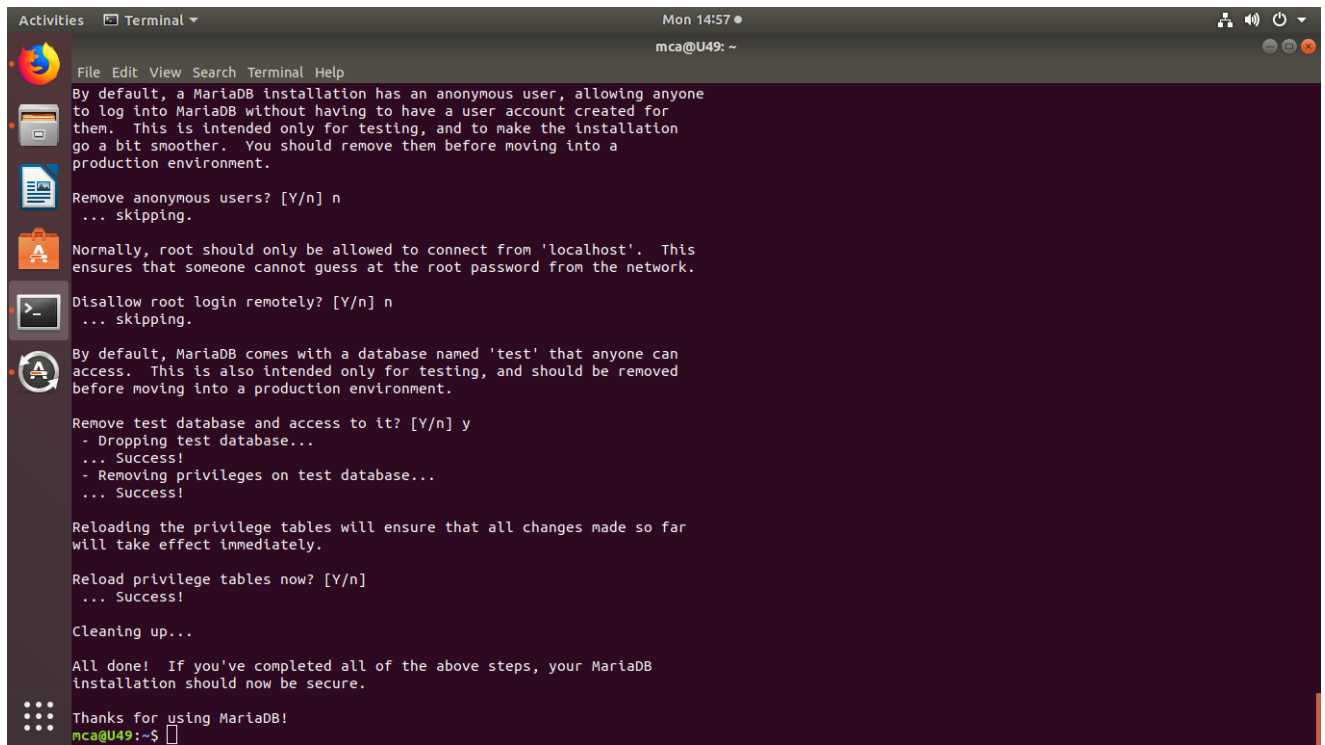
Normally, root should only be allowed to connect from 'localhost'.  This
ensures that someone cannot guess at the root password from the network.

Disallow root login remotely? [Y/n] n
... skipping.

By default, MariaDB comes with a database named 'test' that anyone can
access.  This is also intended only for testing, and should be removed
before moving into a production environment.

```

(This will set password for mariadb, and strengthen the security by asking some questions like disallow root login remotely? Remove test database? Etc)



```
Activities  Terminal  Mon 14:57  mca@U49: ~  
File Edit View Search Terminal Help  
By default, a MariaDB installation has an anonymous user, allowing anyone  
to log into MariaDB without having to have a user account created for  
them. This is intended only for testing, and to make the installation  
go a bit smoother. You should remove them before moving into a  
production environment.  
Remove anonymous users? [Y/n] n  
... skipping.  
Normally, root should only be allowed to connect from 'localhost'. This  
ensures that someone cannot guess at the root password from the network.  
Disallow root login remotely? [Y/n] n  
... skipping.  
By default, MariaDB comes with a database named 'test' that anyone can  
access. This is also intended only for testing, and should be removed  
before moving into a production environment.  
Remove test database and access to it? [Y/n] y  
- Dropping test database...  
... Success!  
- Removing privileges on test database...  
... Success!  
Reloading the privilege tables will ensure that all changes made so far  
will take effect immediately.  
Reload privilege tables now? [Y/n]  
... Success!  
Cleaning up...  
All done! If you've completed all of the above steps, your MariaDB  
installation should now be secure.  
Thanks for using MariaDB!  
mca@U49:~$
```


Install PHP and commonly used modules

sudo apt install php libapache2-mod-php php-openssl php-cli php-gd php-curl php-mysql

```

dpkg: warning: while removing php-pear, directory '/usr/share/php/.registry' not empty so not removed
Purging configuration files for php7.2-json (7.2.7-0ubuntu0.18.04.2) ...
Purging configuration files for php7.2-openssl (7.2.7-0ubuntu0.18.04.2) ...
mca@U49:~$ sudo apt install php libapache2-mod-php php-openssl php-cli php-gd php-curl php-mysql
Reading package lists... Done
Building dependency tree
Reading state information... Done
Note, selecting 'php7.2-openssl' instead of 'php-openssl'
The following packages were automatically installed and are no longer required:
  debhelper dh-autoreconf dh-strip-nondeterminism libarchive-cpio-perl
  libfile-stripnondeterminism-perl libmail-sendmail-perl libpcre16-3
  libpcre3-dev libpcre32-3 libpcrecpp0v5 libssl-dev libssl-doc
  libsys-hostname-long-perl po-debconf shtool
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  libapache2-mod-php7.2 php-common php7.2 php7.2-cli php7.2-common php7.2-curl
  php7.2-gd php7.2-json php7.2-mysql php7.2-readline
Suggested packages:
  php-pear
The following NEW packages will be installed:
  libapache2-mod-php libapache2-mod-php7.2 php php-cli php-common php-curl
  php-gd php-mysql php7.2 php7.2-cli php7.2-common php7.2-gd
  php7.2-json php7.2-mysql php7.2-openssl php7.2-readline
0 upgraded, 17 newly installed, 0 to remove and 0 not upgraded.
Need to get 4,037 kB of archives.
After this operation, 17.9 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu bionic/main amd64 php-common all 1:60ubuntu1 [12.1 kB]
Get:2 http://archive.ubuntu.com/ubuntu bionic/main amd64 php7.2-common amd64 7.2.3-1ubuntu1 [879 kB]
Get:3 http://archive.ubuntu.com/ubuntu bionic/main amd64 php7.2-json amd64 7.2.3-1ubuntu1 [18.8 kB]
Get:4 http://archive.ubuntu.com/ubuntu bionic/main amd64 php7.2-openssl amd64 7.2.3-1ubuntu1 [165 kB]
Get:5 http://archive.ubuntu.com/ubuntu bionic/main amd64 php7.2-readline amd64 7.2.3-1ubuntu1 [12.1 kB]
Get:6 http://archive.ubuntu.com/ubuntu bionic/main amd64 php7.2-cli amd64 7.2.3-1ubuntu1 [1,404 kB]
Get:7 http://archive.ubuntu.com/ubuntu bionic/main amd64 libapache2-mod-php7.2 amd64 7.2.3-1ubuntu1 [1,348 kB]
Get:8 http://archive.ubuntu.com/ubuntu bionic/main amd64 libapache2-mod-php all 1:7.2+60ubuntu1 [3,212 B]
Get:9 http://archive.ubuntu.com/ubuntu bionic/main amd64 php7.2 all 7.2.3-1ubuntu1 [9,236 B]
Get:10 http://archive.ubuntu.com/ubuntu bionic/main amd64 php all 1:7.2+60ubuntu1 [3,084 B]
Get:11 http://archive.ubuntu.com/ubuntu bionic/main amd64 php-cli all 1:7.2+60ubuntu1 [3,160 B]

```

Restart apache2

- **sudo systemctl restart apache2**

Now you can check php installation

sudo echo "<?php phpinfo(); ?>" | sudo tee -a /var/www/html/phpinfo.php > /dev/null

```

Creating config file /etc/php/7.2/mods-available/gd.ini with new version
Setting up php7.2-cli (7.2.3-1ubuntu1) ...
update-alternatives: using /usr/bin/php7.2 to provide /usr/bin/php (php) in auto mode
update-alternatives: using /usr/bin/php7.2 to provide /usr/bin/phar (phar) in auto mode
update-alternatives: using /usr/bin/phar.php7.2 to provide /usr/bin/phar (phar) in auto mode
Creating config file /etc/php/7.2/cli/php.ini with new version
Setting up php-gd (1:7.2+60ubuntu1) ...
Setting up libapache2-mod-php7.2 (7.2.3-1ubuntu1) ...
Creating config file /etc/php/7.2/apache2/php.ini with new version
Module mpm_event disabled.
Enabling module mpm_prefork.
apache2_switch_mpm Switch to prefork
apache2_invoke: Enable module php7.2
Setting up php-mysql (1:7.2+60ubuntu1) ...
Setting up libapache2-mod-php (1:7.2+60ubuntu1) ...
Setting up php-cli (1:7.2+60ubuntu1) ...
Setting up php7.2 (7.2.3-1ubuntu1) ...
Setting up php (1:7.2+60ubuntu1) ...
mca@U49:~$ sudo systemctl restart apache2
mca@U49:~$ cd /var/www/html/
mca@U49:/var/www/html$ gedit phpinfo.php
(gedit:19250): Gtk-WARNING **: 15:24:57.451: gtk_widget_size_allocate(): attempt to allocate widget with width -28 and height 32
mca@U49:/var/www/html$ sudo gedit phpinfo.php
** (gedit:19276): WARNING **: 15:28:33.244: Set document metadata failed: Setting attribute metadata::gedit-spell-language not supported
** (gedit:19276): WARNING **: 15:28:33.244: Set document metadata failed: Setting attribute metadata::gedit-encoding not supported
** (gedit:19276): WARNING **: 15:28:36.672: Set document metadata failed: Setting attribute metadata::gedit-position not supported
mca@U49:/var/www/html$ sudo gedit phpinfo.php

```

```

Activities  Terminal  Mon 15:30
mca@U49: /var/www/html

File Edit View Search Terminal Help

Creating config file /etc/php/7.2/mods-available/gd.ini with new version
Setting up php7.2-cli (7.2.3-1ubuntu1) ...
update-alternatives: using /usr/bin/php7.2 to provide /usr/bin/php (php) in auto mode
update-alternatives: using /usr/bin/phar7.2 to provide /usr/bin/phar (phar) in auto mode
update-alternatives: using /usr/bin/phar.phar7.2 to provide /usr/bin/phar.phar (phar.phar) in auto mode

Creating config file /etc/php/7.2/cli/php.ini with new version
Setting up php-gd (1:7.2+60ubuntu1) ...
Setting up libapache2-mod-php7.2 (7.2.3-1ubuntu1) ...

Creating config file /etc/php/7.2/apache2/php.ini with new version
Module mpm_event disabled.
Enabling module mpm_prefork.
apache2_switch_mpm Switch to prefork
apache2_invoke: Enable module php7.2
Setting up php-mysql (1:7.2+60ubuntu1) ...
Setting up libapache2-mod-php (1:7.2+60ubuntu1) ...
Setting up php-cli (1:7.2+60ubuntu1) ...
Setting up php7.2 (7.2.3-1ubuntu1) ...
Setting up php (1:7.2+60ubuntu1) ...
mca@U49:~$ sudo systemctl restart apache2
mca@U49:~$ /var/www/html/phpinfo.php
bash: /var/www/html/phpinfo.php: No such file or directory
mca@U49:~$ /var/www/html/
bash: /var/www/html/: Is a directory
mca@U49:~$ cd /var/www/html/
mca@U49:/var/www/html$ gedit phpinfo.php

(gedit:19250): Gtk-WARNING **: 15:24:57.451: gtk_widget_size_allocate(): attempt to allocate widget with width -28 and height 32
mca@U49:/var/www/html$ sudo gedit phpinfo.php

** (gedit:19276): WARNING **: 15:28:33.244: Set document metadata failed: Setting attribute metadata::gedit-spell-language not supported
** (gedit:19276): WARNING **: 15:28:33.244: Set document metadata failed: Setting attribute metadata::gedit-encoding not supported
** (gedit:19276): WARNING **: 15:28:36.672: Set document metadata failed: Setting attribute metadata::gedit-position not supported
mca@U49:/var/www/html$

```

```

Activities  Terminal  Mon 15:32
mca@U49: /var/www/html

File Edit View Search Terminal Help

Creating config file /etc/php/7.2/mods-available/gd.ini with new version
Setting up php7.2-cli (7.2.3-1ubuntu1) ...
update-alternatives: using /usr/bin/php7.2 to provide /usr/bin/php (php) in auto mode
update-alternatives: using /usr/bin/phar7.2 to provide /usr/bin/phar (phar) in auto mode
update-alternatives: using /usr/bin/phar.phar7.2 to provide /usr/bin/phar.phar (phar.phar) in auto mode

Creating config file /etc/php/7.2/cli/php.ini with new version
Setting up php-gd (1:7.2+60ubuntu1) ...
Setting up libapache2-mod-php7.2 (7.2.3-1ubuntu1) ...

Creating config file /etc/php/7.2/apache2/php.ini with new version
Module mpm_event disabled.
Enabling module mpm_prefork.
apache2_switch_mpm Switch to prefork
apache2_invoke: Enable module php7.2
Setting up php-mysql (1:7.2+60ubuntu1) ...
Setting up libapache2-mod-php (1:7.2+60ubuntu1) ...
Setting up php-cli (1:7.2+60ubuntu1) ...
Setting up php7.2 (7.2.3-1ubuntu1) ...
Setting up php (1:7.2+60ubuntu1) ...
mca@U49:~$ sudo systemctl restart apache2
mca@U49:~$ /var/www/html/phpinfo.php
bash: /var/www/html/phpinfo.php: No such file or directory
mca@U49:~$ /var/www/html/
bash: /var/www/html/: Is a directory
mca@U49:~$ cd /var/www/html/
mca@U49:/var/www/html$ gedit phpinfo.php

(gedit:19250): Gtk-WARNING **: 15:24:57.451: gtk_widget_size_allocate(): attempt to allocate widget with width -28 and height 32
mca@U49:/var/www/html$ sudo gedit phpinfo.php

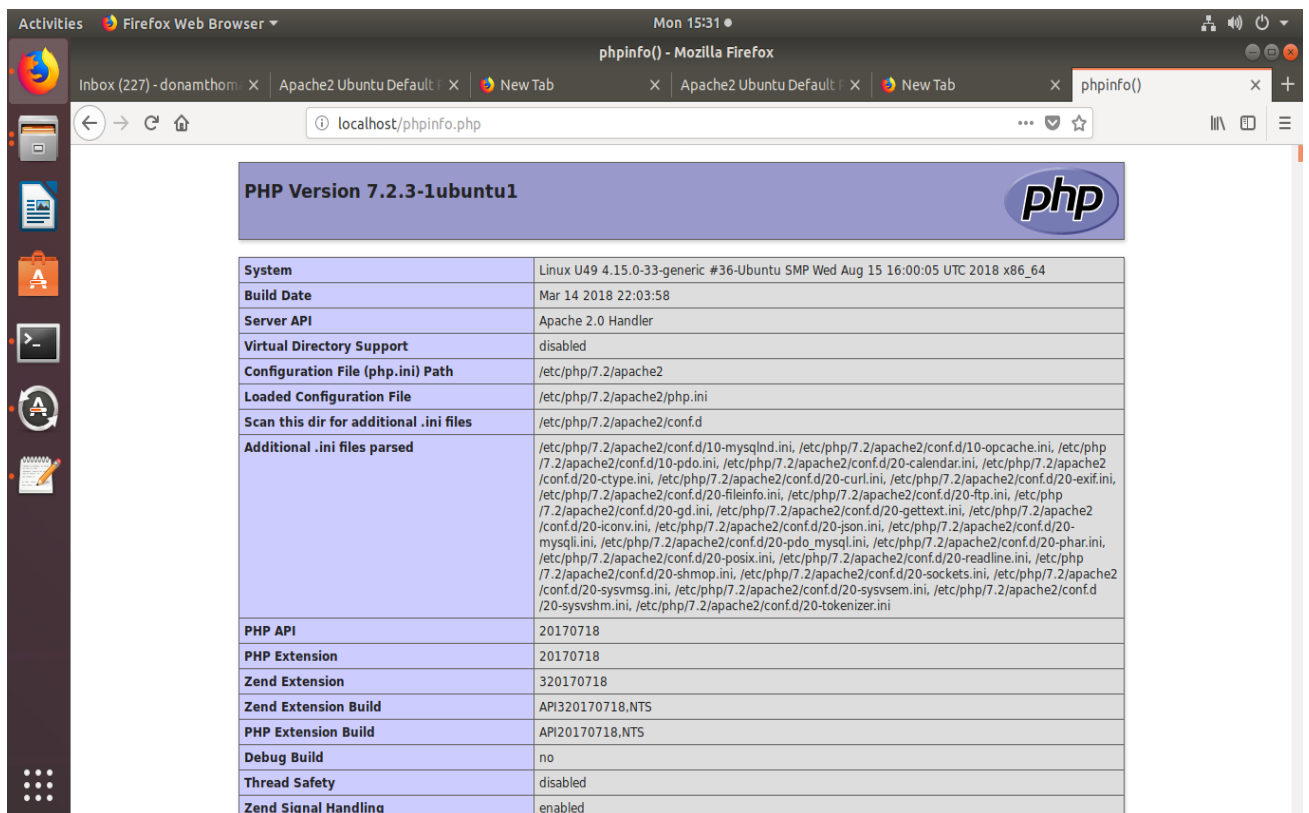
** (gedit:19276): WARNING **: 15:28:33.244: Set document metadata failed: Setting attribute metadata::gedit-spell-language not supported
** (gedit:19276): WARNING **: 15:28:33.244: Set document metadata failed: Setting attribute metadata::gedit-encoding not supported
** (gedit:19276): WARNING **: 15:28:36.672: Set document metadata failed: Setting attribute metadata::gedit-position not supported
mca@U49:/var/www/html$ sudo gedit phpinfo.php

```



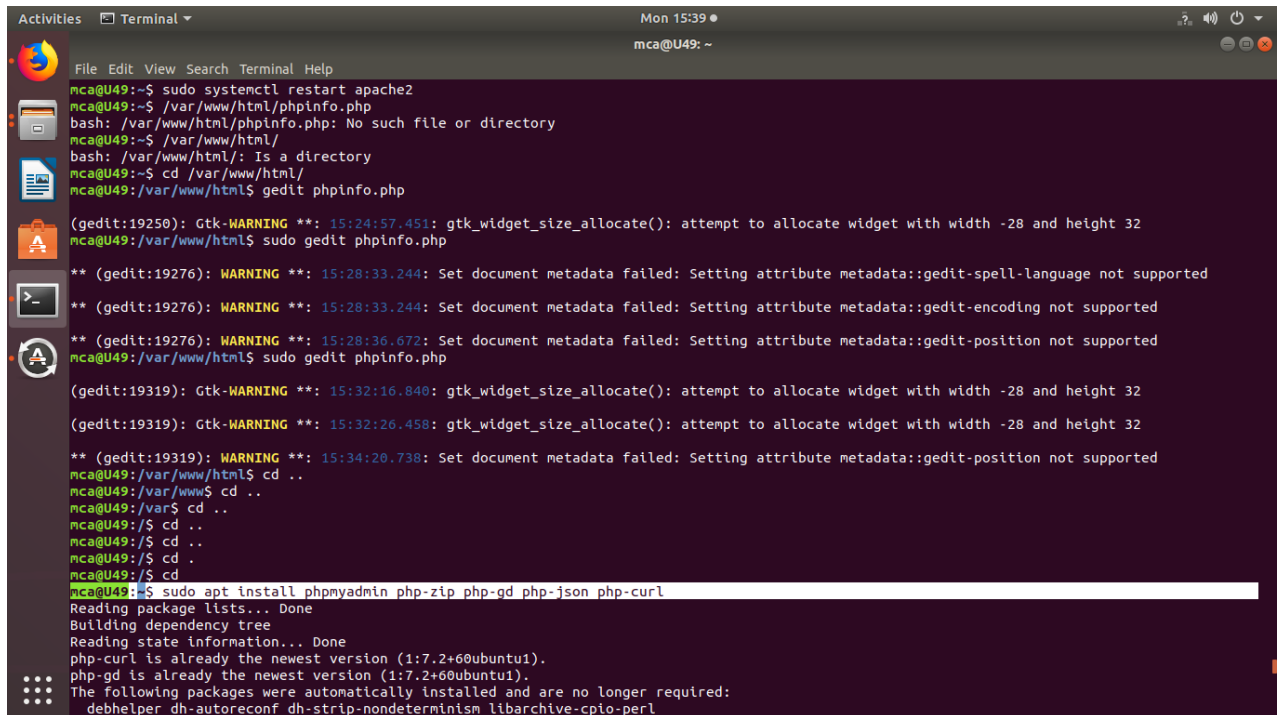

Open a browser

<http://127.0.0.1/phpinfo.php>



Install phpmyadmin

```
sudo apt install phpmyadmin php-mbstring php-zip php-gd php-  
json php-curl
```

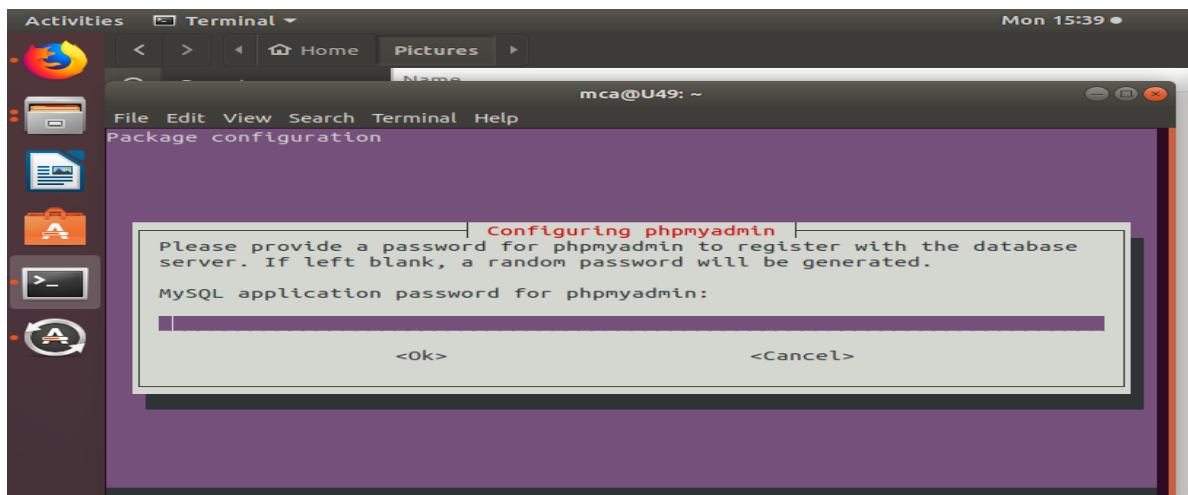


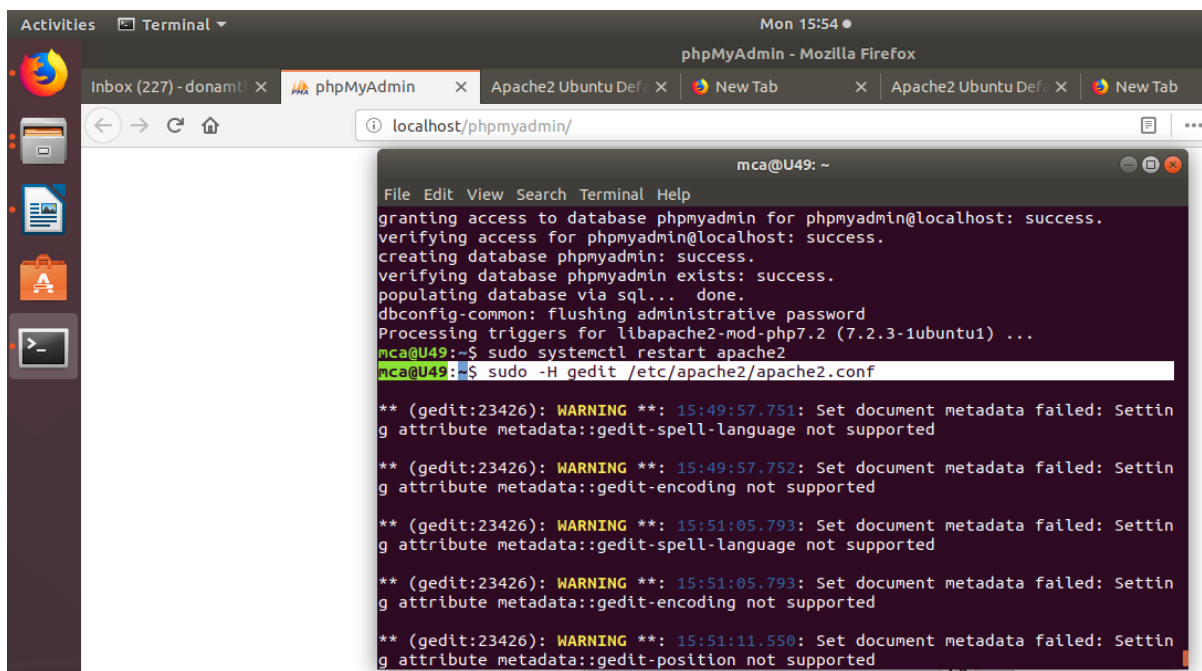
(It ask for webserver select apache2, select db-configuration and set password)

Restart apache2

```
sudo systemctl restart apache2
```

Check phpMyAdmin





```

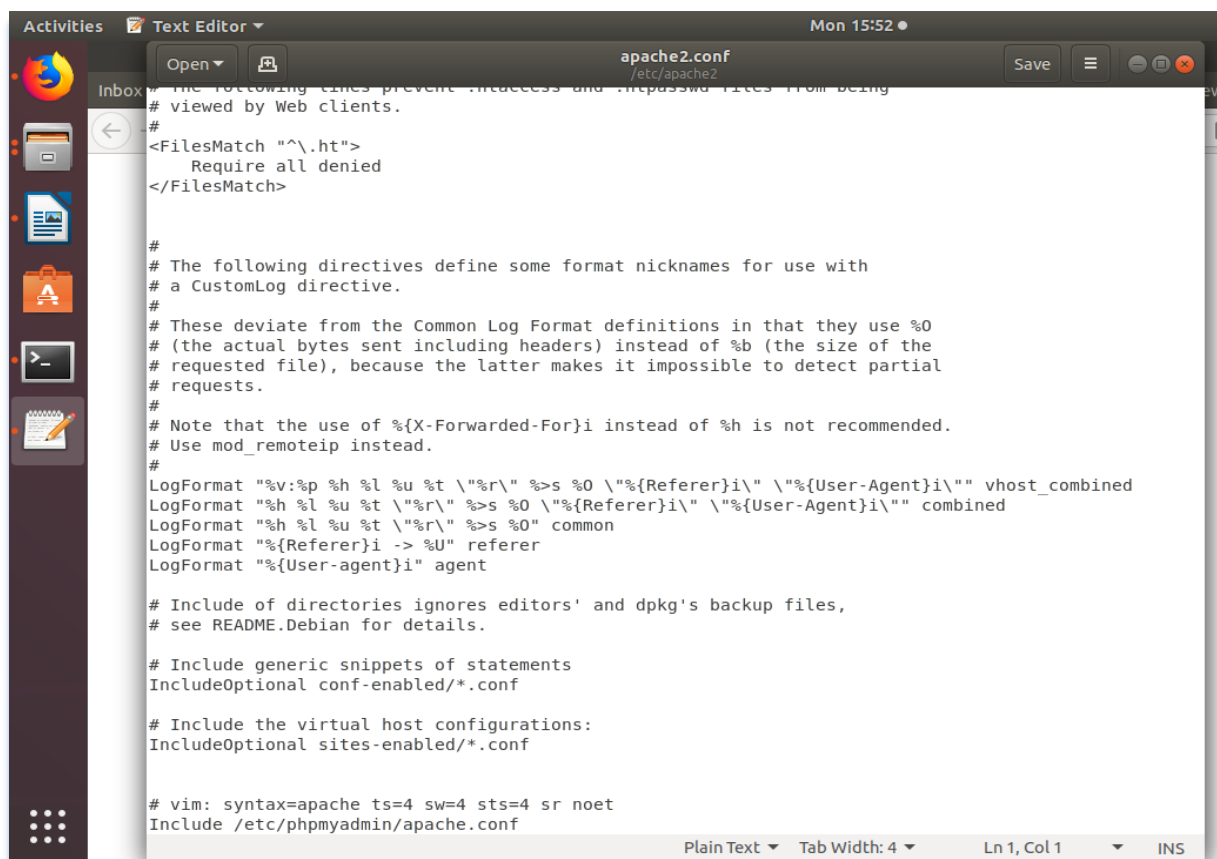
Mon 15:54 •
phpMyAdmin - Mozilla Firefox
localhost/phpmyadmin/

mca@U49: ~
File Edit View Search Terminal Help
granting access to database phpmyadmin for phpmyadmin@localhost: success.
verifying access for phpmyadmin@localhost: success.
creating database phpmyadmin: success.
verifying database phpmyadmin exists: success.
populating database via sql... done.
dbconfig-common: flushing administrative password
Processing triggers for libapache2-mod-php7.2 (7.2.3-1ubuntu1) ...
mca@U49:~$ sudo systemctl restart apache2
mca@U49:~$ sudo -H gedit /etc/apache2/apache2.conf

** (gedit:23426): WARNING **: 15:49:57.751: Set document metadata failed: Setting attribute metadata::gedit-spell-language not supported
** (gedit:23426): WARNING **: 15:49:57.752: Set document metadata failed: Setting attribute metadata::gedit-encoding not supported
** (gedit:23426): WARNING **: 15:51:05.793: Set document metadata failed: Setting attribute metadata::gedit-spell-language not supported
** (gedit:23426): WARNING **: 15:51:05.793: Set document metadata failed: Setting attribute metadata::gedit-encoding not supported
** (gedit:23426): WARNING **: 15:51:11.550: Set document metadata failed: Setting attribute metadata::gedit-position not supported

```

Add Include /etc/phpmyadmin/apache.conf and save the file



```

Mon 15:52 •
apach2.conf
/etc/apache2
Save

# viewed by Web clients.
#
<FilesMatch "^\.ht">
    Require all denied
</FilesMatch>

#
# The following directives define some format nicknames for use with
# a CustomLog directive.
#
# These deviate from the Common Log Format definitions in that they use %0
# (the actual bytes sent including headers) instead of %b (the size of the
# requested file), because the latter makes it impossible to detect partial
# requests.
#
# Note that the use of %{X-Forwarded-For}i instead of %h is not recommended.
# Use mod_remoteip instead.
#
LogFormat "%v:%p %h %l %u %t \"%r\" %>s %0 \"%{Referer}i\" \"%{User-Agent}i\"" vhost_combined
LogFormat "%h %l %u %t \"%r\" %>s %0 \"%{Referer}i\" \"%{User-Agent}i\"" combined
LogFormat "%h %l %u %t \"%r\" %>s %0" common
LogFormat "%{Referer}i -> %U" referer
LogFormat "%{User-agent}i" agent

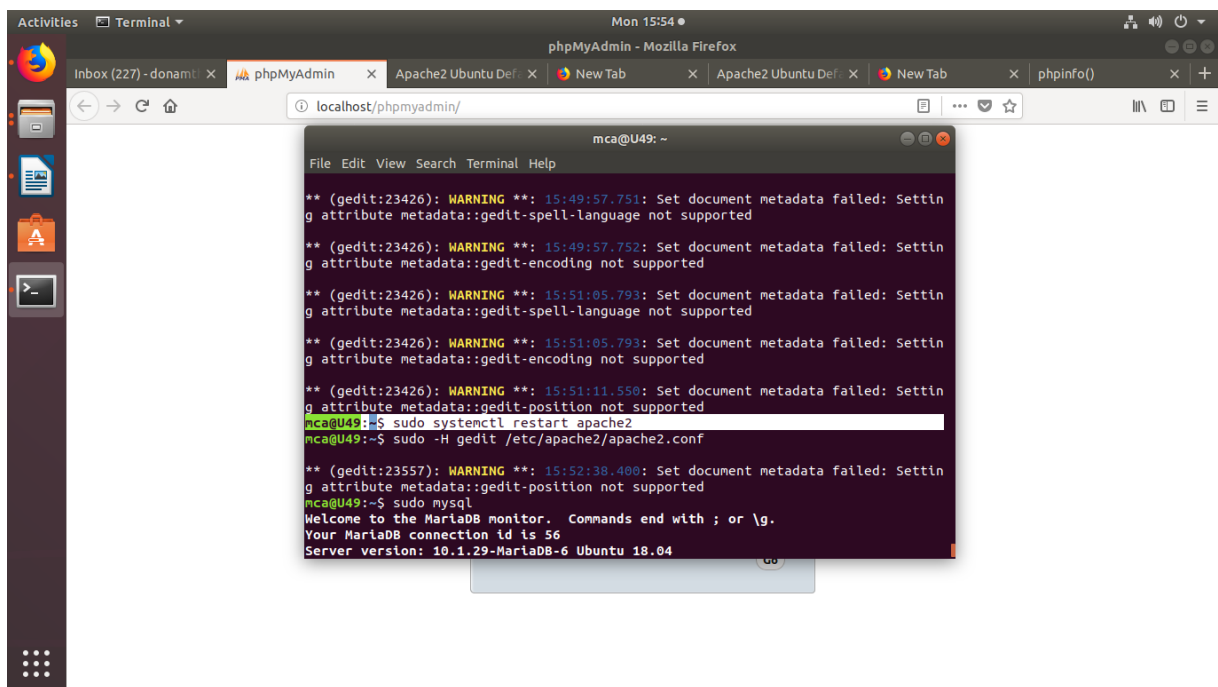
# Include of directories ignores editors' and dpkg's backup files,
# see README.Debian for details.

# Include generic snippets of statements
IncludeOptional conf-enabled/*.conf

# Include the virtual host configurations:
IncludeOptional sites-enabled/*.conf

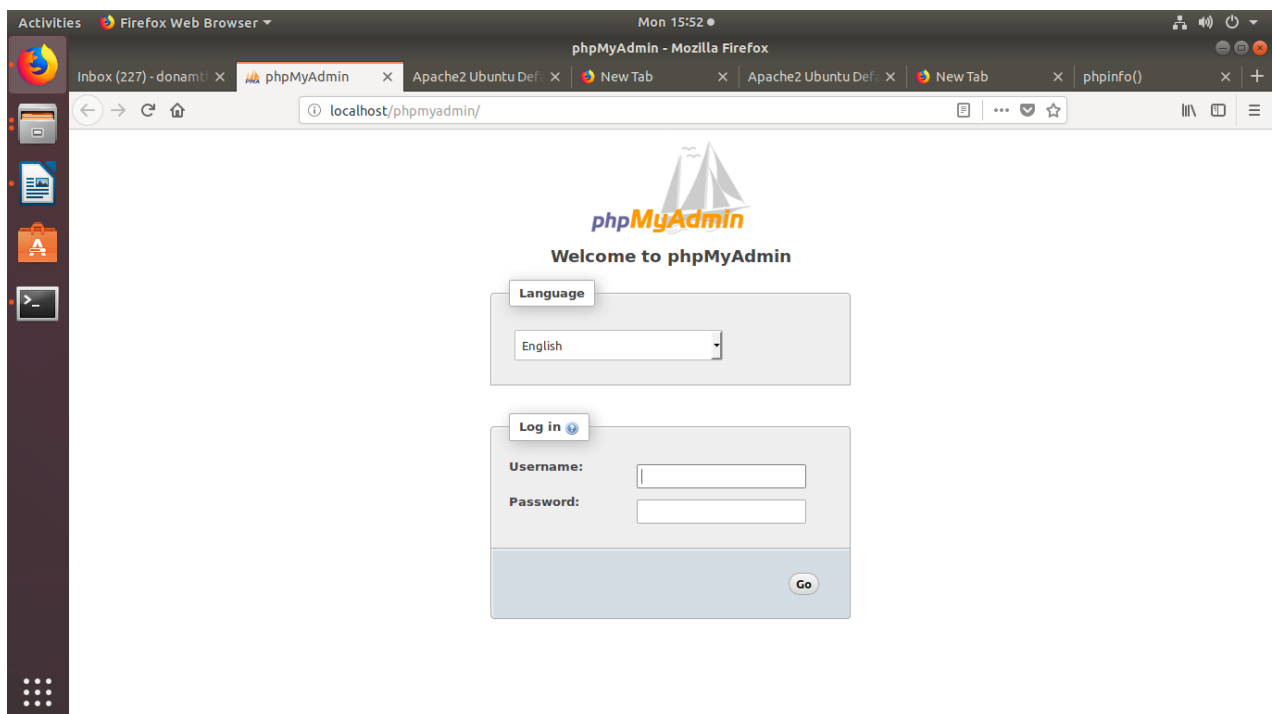
# vim: syntax=apache ts=4 sw=4 sts=4 sr noet
Include /etc/phpmyadmin/apache.conf

```



Open a browser

<http://localhost/phpmyadmin>



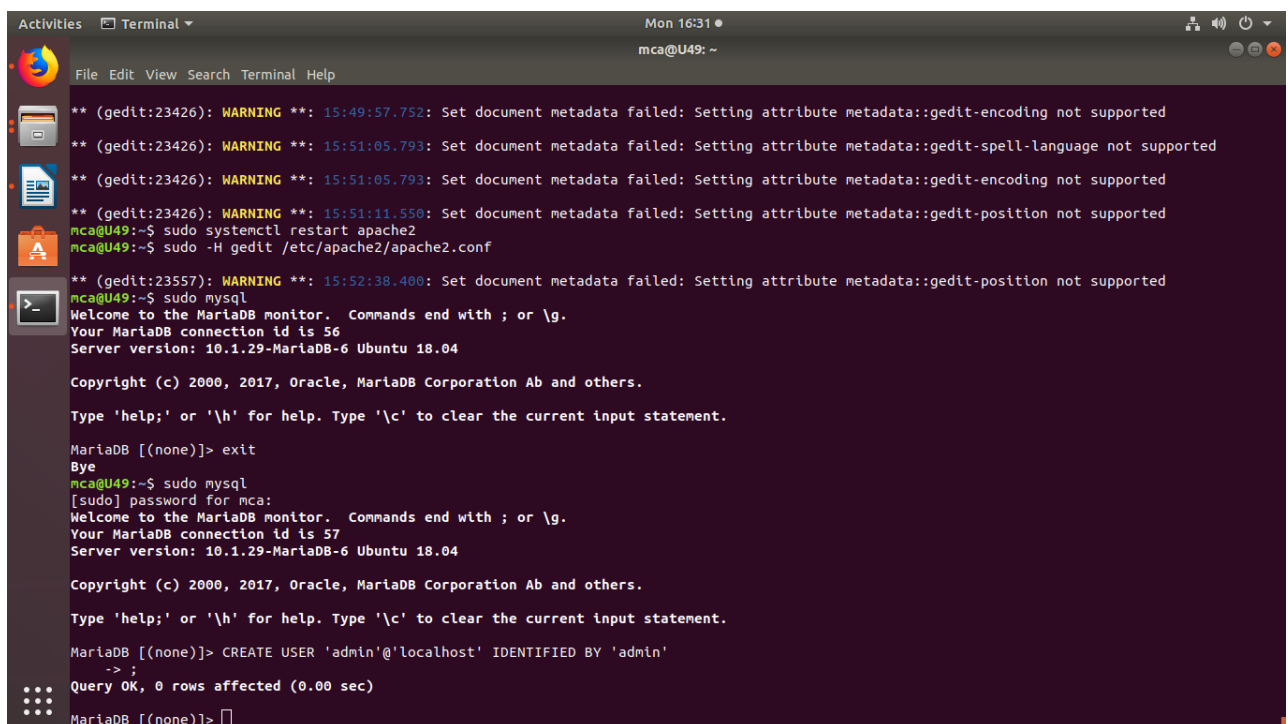
username : root

password : yourpassword

If any problem for login run the following command:

sudo mysql

CREATE USER 'admin'@'localhost' IDENTIFIED BY 'admin';



```
Activities  Terminal  Mon 16:31  mca@U49: ~
File Edit View Search Terminal Help

** (gedit:23426): WARNING **: 15:49:57.752: Set document metadata failed: Setting attribute metadata::gedit-encoding not supported
** (gedit:23426): WARNING **: 15:51:05.793: Set document metadata failed: Setting attribute metadata::gedit-spell-language not supported
** (gedit:23426): WARNING **: 15:51:05.793: Set document metadata failed: Setting attribute metadata::gedit-encoding not supported
** (gedit:23426): WARNING **: 15:51:11.550: Set document metadata failed: Setting attribute metadata::gedit-position not supported
mca@U49:~$ sudo systemctl restart apache2
mca@U49:~$ sudo -H gedit /etc/apache2/apache2.conf

** (gedit:23557): WARNING **: 15:52:38.400: Set document metadata failed: Setting attribute metadata::gedit-position not supported
mca@U49:~$ sudo mysql
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 56
Server version: 10.1.29-MariaDB-6 Ubuntu 18.04

Copyright (c) 2000, 2017, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> exit
Bye
mca@U49:~$ sudo mysql
[sudo] password for mca:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 57
Server version: 10.1.29-MariaDB-6 Ubuntu 18.04

Copyright (c) 2000, 2017, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> CREATE USER 'admin'@'localhost' IDENTIFIED BY 'admin'
-> ;
Query OK, 0 rows affected (0.00 sec)

MariaDB [(none)]>
```

Enter username & password: **admin**

