

LAMP in Ubuntu 16.04 at transferlog.vssh.net

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Installation of apache2:

```
sudo apt-get update
sudo apt-get upgrade

sudo apt-get install apache2
sudo apache2ctl configtest
sudo vim /etc/apache2/apache2.conf

sudo systemctl status apache2.service
```

Installation of mariadb

```
sudo apt-get install mariadb-server
sudo systemctl status mysql.service
```

Then, secure the MariaDB installation and save the chose root password

```
sudo /usr/bin/mysql_secure_installation
```

Finally, to enable root login, issue

```
sudo mysql

USE mysql;
UPDATE user SET plugin='mysql_native_password' WHERE User='root';
FLUSH PRIVILEGES;
```

Granting access from remote hosts

Edit the configuration file

```
sudo vim /etc/mysql/mariadb.conf.d/50-server.cnf
```

and change the bind address into

```
bind-address = 0.0.0.0
```

The *systemctl* wrapper in Ubuntu 16.04 seems to be unreliable in restarting MariaDB:w. Thus, we shut down the daemon manually and start it again with the traditional *service* command:

```
sudo killall mysqld
# Wait until the daemon is dead. Repeat the command if needed
sudo service mysql start
```

Finally, check that mysqld is listening to the public ip (not 127.0.0.1):

```
sudo netstat -ntlp
Active Internet connections (only servers)

```

Proto	Recv-Q	Send-Q	Local Address	Foreign Address	State	PID/Program name
tcp	0	0	10.150.18.29:3306	0.0.0.0:*	LISTEN	27891/mysqld
...						

Test the connection with e.g.

```
mysql -h auriatieto.vssh.net -u bbcrm -p
```

Note: MySQL and MariaDB users are of the form 'username'@'host'. For example, jane@domain1 and jane@domain2 are different users. Users of the form 'username'@'%' can access the database from any machine.

Installing PHP 7.1

```
sudo apt-get install -y python-software-properties
sudo add-apt-repository -y ppa:ondrej/php
sudo apt-get update -y
sudo apt-get install -y php7.1 libapache2-mod-php7.1 php7.1-cli \
    php7.1-common php7.1-mbstring php7.1-gd php7.1-intl php7.1-xml \
    php7.1-mysql php7.1-mcrypt php7.1-zip
```

Myphpadmin

```
sudo apt-get install phpmyadmin
```