## Software Requirements

- Updated Ubuntu 22.04
- A user with sudo privileges

## Hardware Requirements

- 4GB RAM
- 40GB Hard Disk

# Pre-requisites

- Python 3.10
- Node.js 14+
- Redis 5 (caching and real time updates)
- MariaDB 10.3.x / Postgres 9.5.x (to run database driven apps)
- yarn 1.12+ (js dependency manager)
- pip 20+ (py dependency manager)
- wkhtmltopdf (version 0.12.5 with patched qt) (for pdf generation)
- NGINX (proxying multitenant sites in production)

First update and upgrade os sudo apt update sudo apt -y upgrade

Install Git sudo apt install git

# Install Python Tools & wkhtmltopdf

sudo apt-get install python3-dev sudo apt-get install python3-setuptools python3-pip sudo apt-get install xvfb libfontconfig wkhtmltopdf sudo apt-get install libmysqlclient-dev

## Install virtualenv

sudo apt-get install virtualenv sudo apt install python3.10-venv

# Install Curl, Redis and Node.js

sudo apt install curl curl https://raw.githubusercontent.com/creationix/nvm/master/install.sh | bash source ~/.profile nvm install 14.15.0

## Install Yarn

sudo apt-get install npm sudo npm install -g yarn

## install Redis

## Install MariaDB

sudo apt-get install software-properties-common sudo apt install mariadb-server sudo mysql\_secure\_installation

When you run this command, the server will show the following prompts. Please follow the steps as shown below to complete the setup correctly.

Enter current password for root: (Enter your SSH root user password)

Switch to unix socket authentication [Y/n]: Y

Change the root password? [Y/n]: Y

It will ask you to set new MySQL root password at this step. This can be different from the SSH root user password.

Remove anonymous users? [Y/n] Y

Disallow root login remotely? [Y/n]: N

This is set as N because we might want to access the database from a remote server for using business analytics software like Metabase / PowerBI / Tableau, etc.

Remove test database and access to it? [Y/n]: Y

Reload privilege tables now? [Y/n]: Y

# MySQL database development files

sudo apt-get install libmysglclient-dev

# Edit the mariadb configuration ( unicode character encoding )

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

#### Add this

[server]
user = mysql
pid-file = /run/mysqld/mysqld.pid
socket = /run/mysqld/mysqld.sock
basedir = /usr
datadir = /var/lib/mysql
tmpdir = /tmp
lc-messages-dir = /usr/share/mysql
bind-address = 127.0.0.1
query\_cache\_size = 16M
log\_error = /var/log/mysql/error.log

[mysqld] innodb-file-format=barracuda innodb-file-per-table=1 innodb-large-prefix=1 character-set-client-handshake = FALSE character-set-server = utf8mb4 collation-server = utf8mb4\_unicode\_ci

#### RESTART THE MYSQL

sudo service mysql restart

AGAIN RUN THIS COMMAND AND ADD THESE TEXT MENTIONED.

sudo nano /etc/mysql/my.cnf

**ADD THIS** 

[mysqld]

```
character-set-client-handshake = FALSE
character-set-server = utf8mb4
collation-server = utf8mb4_unicode_ci
[mysql]
default-character-set = utf8mb4
```

#### Like this

```
# The MariaDB/MySQL tools read configuration files in the following order:
# 0. "/etc/mysql/my.cnf" symlinks to this file, reason why if you're using the .cnf extension
# 1. "/etc/mysql/mariadb.cnf" (this file) to set global defaults,
# 2. "/etc/mysql/conf.d/*.cnf" to set global options.
# 3. "/etc/mysgl/mariadb.conf.d/*.cnf" to set MariaDB-only options.
# 4. "~/.my.cnf" to set user-specific options.
# If the same option is defined multiple times, the last one will apply.
# One can use all long options that the program supports.
# Run program with --help to get a list of available options and with
# --print-defaults to see which it would actually understand and use.
# If you are new to MariaDB, check out
https://mariadb.com/kb/en/basic-mariadb-configuration-file/
# This group is read both by the client and the server
# use it for options that affect everything
#[client-server]
# Port or socket location where to connect
# port = 3306
# socket = /run/mysqld/mysqld.sock
# Import all .cnf files from configuration directory
#!includedir /etc/mysql/conf.d/
#!includedir /etc/mysql/mariadb.conf.d/
#
[mysqld]
character-set-client-handshake = FALSE
character-set-server = utf8mb4
collation-server = utf8mb4 unicode ci
```

```
# Add your additional MySQL server configurations below this line
# For example:
# innodb_buffer_pool_size = 2G
# max_connections = 200
# log_error = /var/log/mysql/error.log
[mysql]
default-character-set = utf8mb4
```

Save this and exit

#### Restart the my sql

sudo service mysql restart

# Install frappe-bench

sudo -H pip3 install frappe-bench bench --version

## Initialize Frappe Bench

bench init --frappe-branch version-14 frappe-bench

## Switch directories into the Frappe Bench directory

Cd frappe\_bench

Then

#### Create new site

bench new-site [site-name]

Ex- bench new-site vibhanshu.com

#### Then use the site

bench use (site-name) Ex- bench use vibhanshu.com

## Set the bench configuration (adds a key value pair to site configuration file )

bench set-config developer mode 1

### Start your bench using bench command

Bench start