**Step-by-Step Guide to Install Frappe Bench**

**First of all create a user**

sudo adduser username && sudo usermod -aG sudo username

**Switch to the user**

su - username

**1. Prerequisites**

* **Operating System**: Updated Ubuntu 22.04
* **User**: A user with sudo privileges

**Software Requirements:**

* Python 3.10+
* Node.js 18

**Hardware Requirements:**

* 4GB RAM
* 40GB Hard Disk

**Step 1: Update System Packages**

Run the following commands to ensure your system is up-to-date:

sudo apt update

sudo apt upgrade -y

**Step 2: Install GIT**

Install the necessary packages using the following commands:

Sudo apt-get install git -y

**Step 3: Install python**

sudo apt-get install python3-dev python3.10-dev python3-setuptools python3-pip python3-distutils -y

**Step 4: Install python virtual Environment**

A virtual environment helps in managing the dependencies for one software at one place, without having to interfere with other sections in the computer or server in which the software is running.

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

**Step 5: Install MariaDB**

sudo apt-get install software-properties-common

sudo apt install mariadb-server mariadb-client -y

sudo mysql\_secure\_installation

Follow the prompts during mysql\_secure\_installation:

* Enter current password for root (enter for none): **PRESS ENTER**
* Switch to unix\_socket authentication: **Y**
* Change the root password: **Y**
* Remove anonymous users: **Y**
* Disallow root login remotely: **Y**
* Remove test database and access to it: **Y**
* Reload privilege tables: **Y**

**Step 6: add mariaDB configuration**

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

Add the following lines:

[mysqld]

character-set-client-handshake = FALSE

character-set-server = utf8mb4

collation-server = utf8mb4\_unicode\_ci

[mysql]

default-character-set = utf8mb4

**Restart MariaDB:**

sudo service mysql restart

**Step 7: Initialize Redis**

sudo apt-get install redis-server -y

**Step 8: Install Curl**

sudo apt install curl

**Step 9: Install Node.jd**

curl https://raw.githubusercontent.com/creationix/nvm/master/install.sh | bash

source ~/.profile

export NVM\_DIR="$HOME/.nvm"

[ -s "$NVM\_DIR/nvm.sh" ] && \ . "$NVM\_DIR/nvm.sh"

[ -s "$NVM\_DIR/bash\_completion" ] && \ . "$NVM\_DIR/bash\_completion"

nvm install 18

**Step 10: Install Yarn**

sudo apt-get install npm -y

sudo npm install -g yarn

**Step 11: Install Wkhtmltopdf**

sudo apt-get install xvfb libfontconfig wkhtmltopdf -y

**Step 12: Install Frappe Bench**

sudo -H pip3 install frappe-bench

Initialize Frappe Bench:

bench init frappe-bench --frappe-path https://github.com/jaydeep-sigzen/frappe.git --version version-15

**Step 13: Get ERPNext**

bench get-app erpnext --branch version-15

**Installation Complete**

**Common Issues and Resolutions**

**Issue 1: Error 2002: Can't connect to MySQL server**

**Resolution:** Ensure MariaDB is running:

sudo systemctl start mariadb

**Issue 2: Node.js or Yarn not found**

**Resolution:** Check Node.js and Yarn versions:

node -v

yarn -v

If not installed correctly, re-run the installation commands for Node.js and Yarn.

**Issue 3: frappe-bench command not found**

**Resolution:** Ensure Python and pip paths are correctly set. Reinstall frappe-bench:

sudo pip3 install --force-reinstall frappe-bench

**Issue 4: Permission Denied During Installation**

**Resolution:** Use sudo to grant necessary permissions.