### **Setting And Installing Frappe Bench**

Following steps shows the installing and setup for Frappe bench in WSL (Windows Subsystem for Linux).

1. Update and Upgrade installing Packages in Linux.

```
PLAPTOP-RJBJ1IT6:/mnt/d/kalp_azrio/Frappe$ sudo apt update && sudo apt upgrade -y
[sudo] password for itzklp:
Hit:1 http://archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:3 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:4 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [7244 B]
Get:5 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.0 kB]
Get:6 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:7 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [151 kB]
Get:8 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]
Get:9 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [212 B]
Get:10 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [967 kB]
Get:11 http://archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [238 kB]
Get:12 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [310 kB]
Get:13 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 B]
Get:14 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 B]
Get:15 http://archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [208 B]
Get:16 http://archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [11.7 kB]
Get:17 http://archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 B]
Get:18 http://archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
Fetched 2117 kB in 7s (307 kB/s)
Reading package lists... Done
Building dependency tree... Done
```

**2.** Installing necessary dependencies for setup of Frappe bench like Python3, git, wget etc.

```
itzklp@LAPTOP-RJBJIIT6:/mmt/d/kalp_azrio/Frappe$ sudo apt install -y build-essential python3 python3-pip python3-dev git curl wget
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
git is already the newest version (1:2.43.0-1ubuntu7.1).
curl is already the newest version (8.5.0-2ubuntu10.6).
wget is already the newest version (1.2.14-1ubuntu4.1).
The following additional packages will be installed:
bzip2 cpp cpp-13 cpp-13-x86-64-linux-gnu cpp-x86-64-linux-gnu dpkg-dev fakeroot g++ g++-13 g++-13-x86-64-linux-gnu g++-x86-64-linux-javascript-common libalgorithm-diff-perl libalgorithm-diff-xs-perl libalgorithm-merge-perl libaom3 libasan8 libatomic1 libc-dev-bin
libexpat1-dev libfakeroot libfile-fcntllock-perl libgc-13-dev libgd3 libgomp1 libheif-plugin-aomdec libheif-plugin-aomenc libheif-p
libjs-sphinxdoc libjs-underscore liblsan0 libmpc3 libpython3-dev libpython3-stdlib libpython3.12-dev python3.12-dev python3.12-minimal rpc
Sugmarted neckages:
```

**3.** Installing Node.js v16 which is compatible with Frappe:

```
DEPRECATION WARNING

Node.js 16.x is no longer actively supported!

You will not receive security or critical stability updates for this version.

You should migrate to a supported version of Node.js as soon as possible.
Use the installation script that corresponds to the version of Node.js you wish to install. e.g.

* https://deb.nodesource.com/setup_16.x - Node.js 18 "Hydrogen" (Maintenance)
* https://deb.nodesource.com/setup_19.x - Node.js 19 "Invineteen" (deprecated)
* https://deb.nodesource.com/setup_19.x - Node.js 19 "Invineteen" (deprecated)
* https://deb.nodesource.com/setup_20.x - Node.js 20 LTS "Iron" (recommended)
* https://deb.nodesource.com/setup_21.x - Node.js 21 "Iron" (current)
```

**4.** Installing YARN for Resource Management:

```
itzklp@LAPTOP-RJBJ1IT6:/mnt/d/kalp_azrio/Frappe$ sudo npm install -g yarn
added 1 package, and audited 2 packages in 2s

found 0 vulnerabilities
npm notice
npm notice New major version of npm available! 8.19.4 -> 11.0.0
npm notice Changelog: https://github.com/npm/cli/releases/tag/v11.0.0
npm notice Run npm install -g npm@11.0.0 to update!
npm notice
itzklp@LAPTOP-RJBJ1IT6:/mnt/d/kalp_azrio/Frappe$
```

**5.** Installing Redis which helps in caching and queuing tasks.

```
itzklp@LAPTOP-RJBJIIT6:/mnt/d/kalp_azrio/Frappe$ sudo apt install -y redis-server
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
    libjemalloc2 liblzf1 redis-tools
Suggested packages:
    ruby-redis
The following NEW packages will be installed:
    libjemalloc2 liblzf1 redis-server redis-tools
0 upgraded, 4 newly installed, 0 to remove and 0 not upgraded.
Need to get 1481 kB of archives.
After this operation, 7558 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu noble/universe amd64 libjemalloc2 amd64 5.3.0-2build1 [256 kB]
Get:2 http://archive.ubuntu.com/ubuntu noble/universe amd64 redis-tools amd64 3.6-4 [7624 B]
Get:3 http://archive.ubuntu.com/ubuntu noble/universe amd64 redis-tools amd64 5:7.0.15-1build2 [1165 kB]
Get:4 http://archive.ubuntu.com/ubuntu noble/universe amd64 redis-tools amd64 5:7.0.15-1build2 [51.7 kB]
Fetched 1481 kB in 3s (453 kB/s)
Selecting previously unselected package libjemalloc2:amd64.
(Reading database ... 43557 files and directories currently installed.)
Prepaging to upgack /libjemalloc2 5 3 0-2build1 amd64 deb
```

### **6.** Now We have to install MariaDB which gives support for Database

#### 7. Installing MariaDB and starting MariaDB server.

#### 8. Creating new User in MariaDB using query.

```
itzklp@LAPTOP-RJBJ1IT6:/mnt/d/kalp_azrio/Frappe$ sudo mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with; or \g.
Your MariaDB connection id is 37
Server version: 10.11.8-MariaDB-0ubuntu0.24.04.1 Ubuntu 24.04
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> CREATE USER 'frappe'@'localhost' IDENTIFIED BY 'your_password';
GRANT ALL PRIVILEGES ON *.* TO 'frappe'@Query OK, 0 rows affected (0.005 sec)

MariaDB [(none)]> GRANT ALL PRIVILEGES ON *.* TO 'frappe'@'localhost' WITH GRANT OPTION;
LUSH PRIVILEQuery OK, 0 rows affected (0.002 sec)

MariaDB [(none)]> FLUSH PRIVILEGES;
EXIT;
Query OK, 0 rows affected (0.001 sec)

MariaDB [(none)]> EXIT;
Bye

MariaDB [(none)]> EXIT;
Bye
```

## **9.** Installing wkhtmltopdf to get support for PDF related services.

```
itzklp@LAPTOP-RJBJ1IT6:/mnt/d/kalp_azrio/Frappe$ sudo apt install -y wkhtmltopdf
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
   avahi-daemon geoclue-2.0 glib-networking glib-networking-common glib-networking-services gstreamer1.0-p
   libdouble-conversion3 libdw1t64 libevdev2 libfontenc1 libgstreamer-plugins-base1.0-0 libgstreamer1.0-0
   libmbim-glib4 libmbim-proxy libmbim-utils libmd4c0 libmm-glib0 libmtdev1t64 libn1-3-200 libn1-gen1-3-20
   libproxy1v5 libqmi-glib5 libqmi-proxy libqmi-utils libqrtr-glib0 libqt5core5t64 libqt5dbus5t64 libqt5gu
   libqt5quick5 libqt5sensors5 libqt5svg5 libqt5waylandclient5 libqt5waylandcompositor5 libqt5webchannel5
   libusb-1.0-0 libvisual-0.4-0 libvorbis0a libvorbisenc2 libwacom-common libwacom9 libwoff1 libxaw7 libxc
   libxcb-xinput0 libxcb-xkb1 libxfont2 libxkbcommon-x11-0 libxkbfile1 libxmu6 libxslt1.1 libxt6t64 modemm
   usb-modeswitch-data wpasupplicant x11-xkb-utils xfonts-base xfonts-encodings xfonts-utils xnest xserver
Suggested packages:
```

## **10.** Installing Python Virtual Environment Tools for setting Virtual environment

```
itzklp@LAPTOP-RJBJ1IT6:~$ sudo apt install python3-virtualenv
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
   python3-distlib python3-filelock python3-wheel-whl
Recommended packages:
   python3-distutils
The following NEW packages will be installed:
   python3-distlib python3-filelock python3-virtualenv python3-wheel-whl
Oupgraded, 4 newly installed, 0 to remove and 0 not upgraded.
Need to get 468 kB of archives.
After this operation, 1677 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
```

#### 11. Installing Frappe Bench in virtual environment

```
tzklp@LAPTOP-RJBJ1IT6:~$ python3 -m venv ~/frappe-venv
 tzklp@LAPTOP-RJBJ1IT6:~$ source ~/frappe-venv/bin/activate
(frappe-venv) itzklp@LAPTOP-RJBJ1IT6:~$ pip install --upgrade pip
Requirement already satisfied: pip in ./frappe-venv/lib/python3.12/site-packages (24.0)
Collecting pip
 Using cached pip-24.3.1-py3-none-any.whl.metadata (3.7 kB)
Using cached pip-24.3.1-py3-none-any.whl (1.8 MB)
Installing collected packages: pip
 Attempting uninstall: pip
   Found existing installation: pip 24.0
   Uninstalling pip-24.0:
      Successfully uninstalled pip-24.0
Successfully installed pip-24.3.1
(frappe-venv) itzklp@LAPTOP-RJBJ1IT6:~$ pip install frappe-bench
Collecting frappe-bench
 Downloading frappe_bench-5.23.0-py3-none-any.whl.metadata (12 kB)
Collecting click>=7.0 (from frappe-bench)
 Downloading click-8.1.8-py3-none-any.whl.metadata (2.3 kB)
Collecting gitpython~=3.1.30 (from frappe-bench)
 Downloading GitPython-3.1.44-py3-none-any.whl.metadata (13 kB)
Collecting honcho (from frappe-bench)
 Downloading honcho-2.0.0-py3-none-any.whl.metadata (3.8 kB)
 ollecting jinja2~=3.1.3 (from frappe-bench)
```

# Following are the Problems encountered and steps how I solve it

- ➡ While Installing Python I encountered error that was clashing with older version of Python so to solve it I first uninstalled the older of Python then tried installing new version which worked.
- ♣While Creating Python environment I encountered this error

```
tzklp@LAPTOP-RJBJ1IT6:~$ sudo pip3 install virtualenv
[sudo] password for itzklp:
rror: externally-managed-environment
 This environment is externally managed
   To install Python packages system-wide, try apt install
   python3-xyz, where xyz is the package you are trying to
   install.
   If you wish to install a non-Debian-packaged Python package,
   create a virtual environment using python3 -m venv path/to/venv.
   Then use path/to/venv/bin/python and path/to/venv/bin/pip. Make
   sure you have python3-full installed.
   If you wish to install a non-Debian packaged Python application,
   it may be easiest to use pipx install xyz, which will manage a
   virtual environment for you. Make sure you have pipx installed.
   See /usr/share/doc/python3.12/README.venv for more information.
 ote: If you believe this is a mistake, please contact your Python installation or OS di
em-packages.
hint: See PEP 668 for the detailed specification.
```

The error was encountered because using this command we cannot access or update externally managed environment So to solve this error I tried this three command to create new virtual environment in Python and it worked.

- 1) python3 -m venv ~/frappe-venv
- 2) source ~/frappe-venv/bin/activate
- 3) pip install virtualenv