Setting And Installing Frappe Bench

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

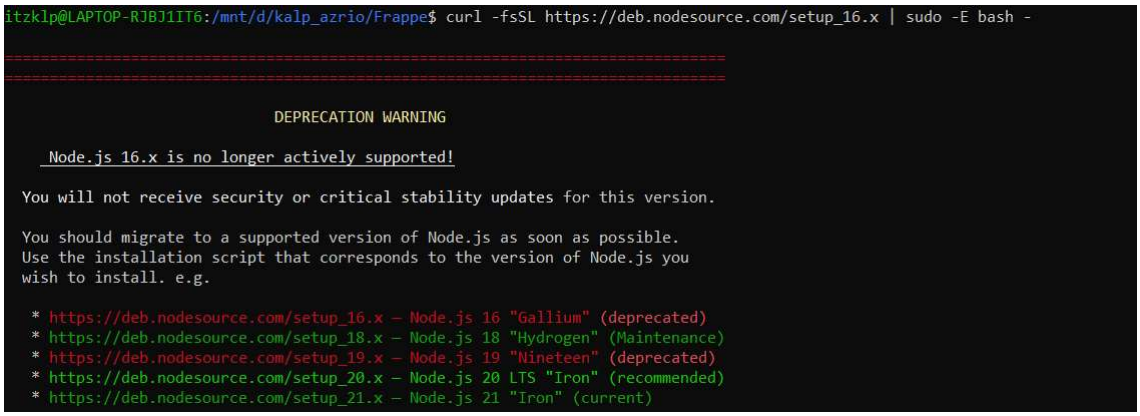
1. Update and Upgrade installing Packages in Linux.

```
itzklp@LAPTOP-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
```

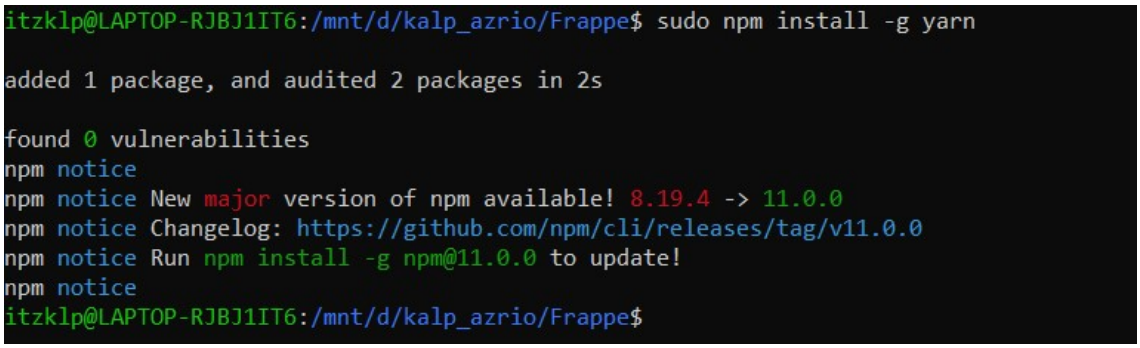
2. Installing necessary dependencies for setup of Frappe bench like Python3, git, wget etc.

```
itzklp@LAPTOP-RJBJ1IT6:/mnt/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 (1.21.4-1ubuntu4.1).
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 libgcc-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 libquadmath0 libstdc++-13-dev l
  manpages-dev python3-minimal python3-pkg-resources python3-setuptools python3-wheel python3.12 python3.12-dev python3.12-minimal rpc
Suggested packages:
```

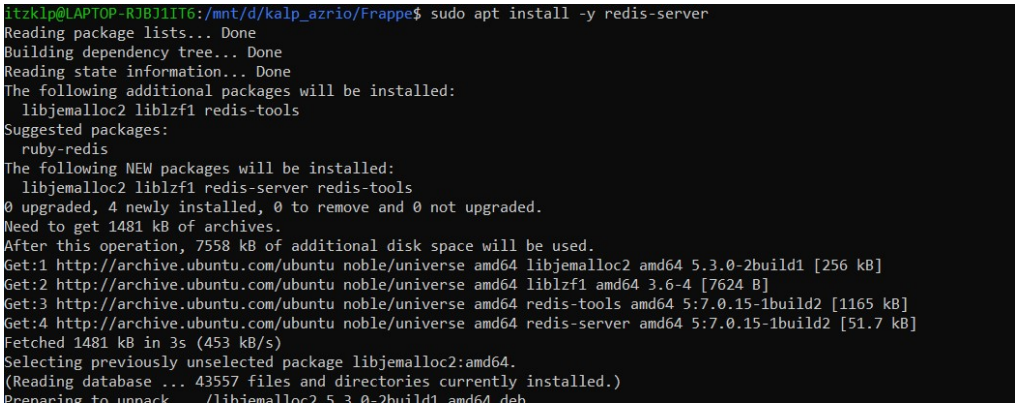
3. Installing Node.js v16 which is compatible with Frappe:



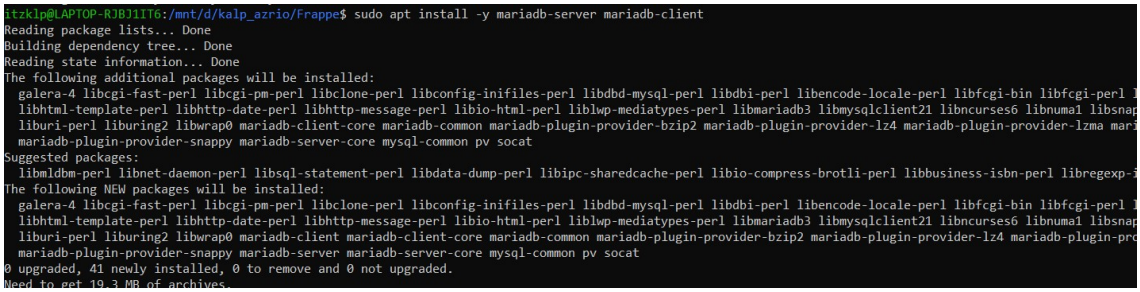
4. Installing YARN for Resource Management:



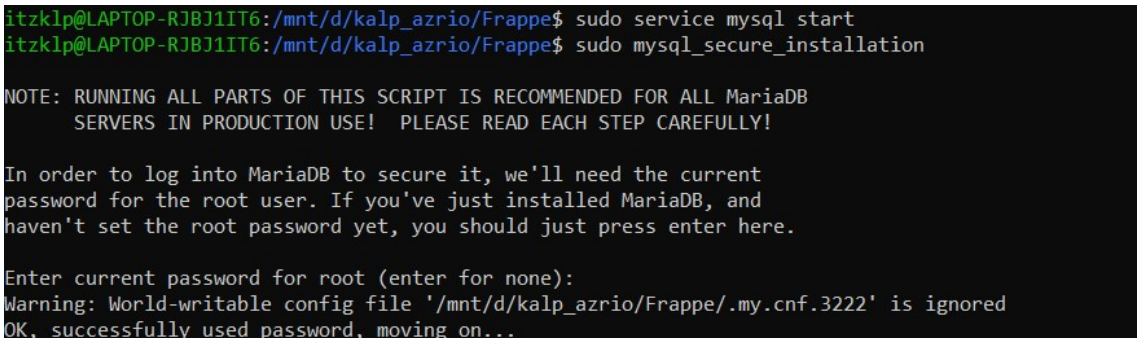
5. Installing Redis which helps in caching and queuing tasks.



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



7. Installing MariaDB and starting MariaDB server.



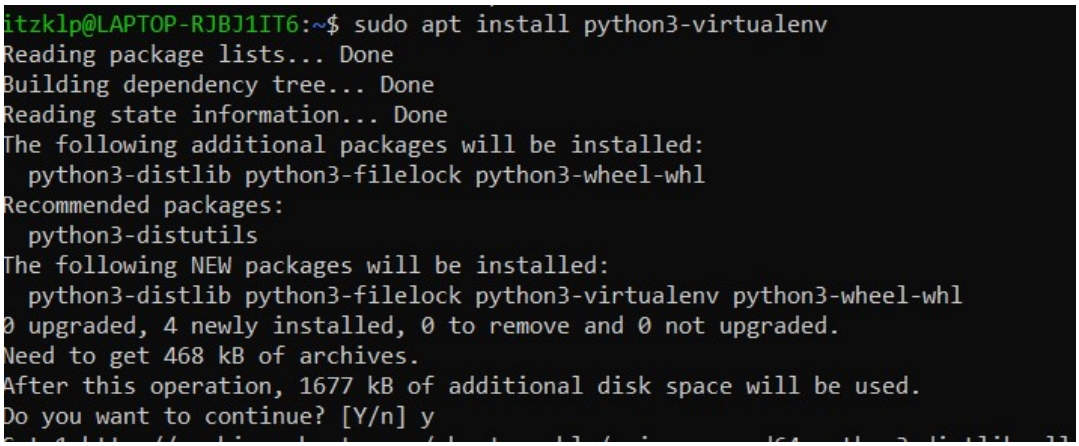
8. Creating new User in MariaDB using query.

```
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
```

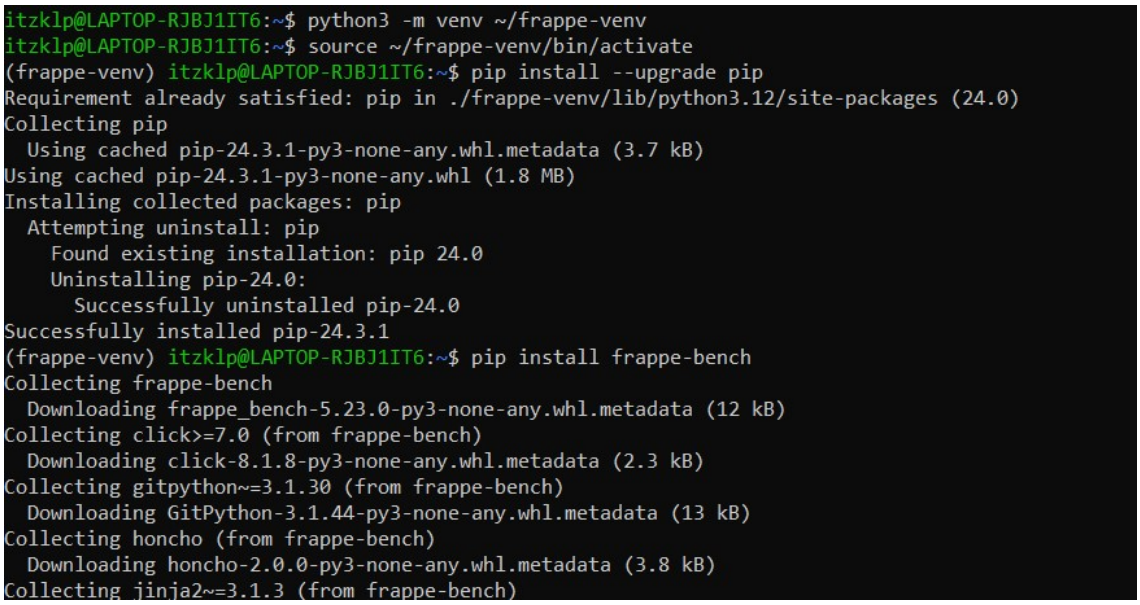
9. Installing wkhtmltopdf to get support for PDF related services.

```
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 libnl-3-200 libnl-genl-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



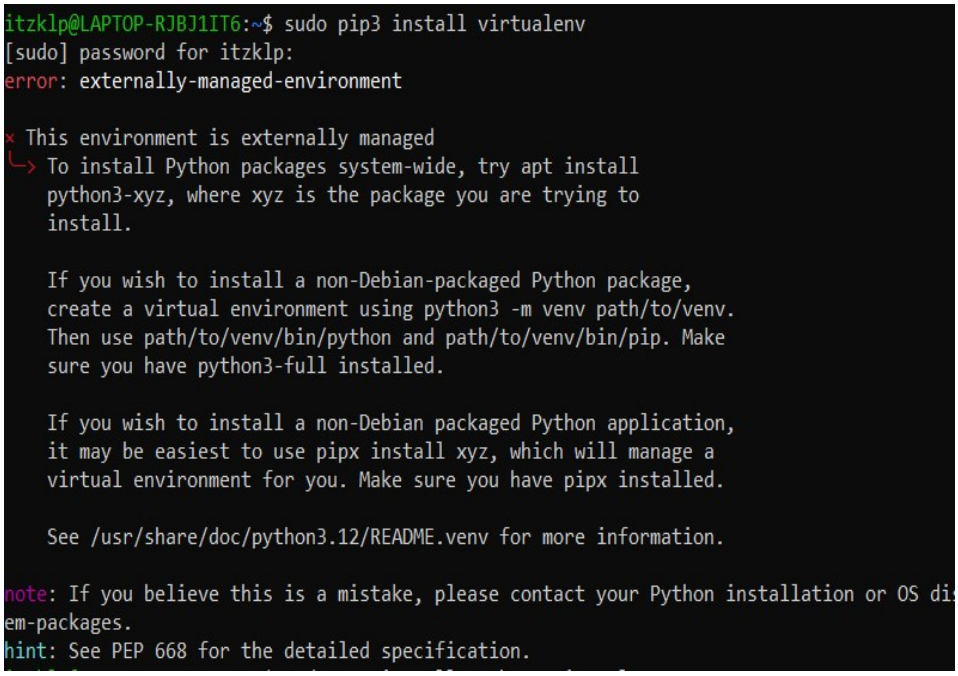
11. Installing Frappe Bench in virtual environment



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



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