**ERPNext-installation-Guide**

**STEP 1 Install git**

*Git is the most commonly used version control system. Git tracks the changes you make to files, so you have a record of what has been done, and you can revert to specific versions should you ever need to. Git also makes collaboration easier, allowing changes by multiple people to all be merged into one source.*

sudo apt-get install git

**STEP 2 install python-dev**

*python-dev is the package that contains the header files for the Python C API, which is used by lxml because it includes Python C extensions for high performance*

sudo apt-get install python3-dev

**STEP 3 Install setuptools and pip (Python's Package Manager).**

*Setuptools is a collection of enhancements to the Python distutils that allow developers to more easily build and distribute Python packages, especially ones that have dependencies on other packages. Packages built and distributed using setuptools look to the user like ordinary Python packages based on the distutils.*

*pip is a package manager for Python. It's a tool that allows you to install and manage additional libraries and dependencies that are not distributed as part of the standard library.*

sudo apt-get install python3-setuptools python3-pip

**STEP 4 Install virtualenv**

*virtualenv is a tool for creating isolated Python environments containing their own copy of python , pip , and their own place to keep libraries installed from PyPI. It's designed to allow you to work on multiple projects with different dependencies at the same time on the same machine.*

sudo apt-get install virtualenv

*CHECK PYTHON VERSION*

python3 -V

*IF VERSION IS 3.8.X RUN*

*sudo apt install python3.8-venv*

*IF VERSION IS 3.10.X RUN*

sudo apt install python3.10-venv

**STEP 5 Install MariaDB 10.3 stable package**

*MariaDB is developed as open source software and as a relational database it provides an SQL interface for accessing data.*

*open this link*

*For ubuntu 20.04*

sudo apt-get install software-properties-common

sudo apt-key adv --fetch-keys 'https://mariadb.org/mariadb\_release\_signing\_key.asc'

sudo add-apt-repository 'deb [arch=amd64,arm64,ppc64el] https://ftp.icm.edu.pl/pub/unix/database/mariadb/repo/10.3/ubuntu focal main'

sudo apt update

sudo apt install mariadb-server

*For ubuntu 18.04*

sudo apt-get install software-properties-common dirmngr apt-transport-https

sudo apt-key adv --fetch-keys 'https://mariadb.org/mariadb\_release\_signing\_key.asc'

sudo add-apt-repository 'deb [arch=amd64,arm64,ppc64el] https://mirrors.aliyun.com/mariadb/repo/10.3/ubuntu bionic main'

sudo apt update

sudo apt install mariadb-server

*IMPORTANT :During this installation you'll be prompted to set the MySQL root password. If you are not prompted for the same You can initialize the MySQL server setup by executing the following command*

sudo mysql\_secure\_installation

**During the setup process, the server will prompt you with a few questions as given below. Follow the instructions to continue the setup;**

* **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**

**STEP 6 MySQL database development files**

sudo apt-get install libmysqlclient-dev

**STEP 7 Edit the mariadb configuration ( unicode character encoding )**

sudo nano /etc/mysql/my.cnf

add this to the my.cnf file

[mysqld]

character-set-client-handshake = FALSE

character-set-server = utf8mb4

collation-server = utf8mb4\_unicode\_ci

[mysql]

default-character-set = utf8mb4

Now press (Ctrl-X) to exit

sudo service mysql restart

**STEP 8 install Redis**

*Redis is an open source (BSD licensed), in-memory data structure store, used as a database, cache, and message broker.*

sudo apt-get install redis-server

**STEP 9 install Node.js 14.X package**

Node.js is an open source, cross-platform runtime environment for developing server-side and networking applications. Node.js applications are written in JavaScript, and can be run within the Node.js runtime on OS X, Microsoft Windows, and Linux.

sudo apt-get install curl

curl -sL https://deb.nodesource.com/setup\_14.x | sudo -E bash -

sudo apt-get install -y nodejs

**STEP 10 install Yarn**

*Yarn is a JavaScript package manager that aims to be speedy, deterministic, and secure. See how easy it is to drop yarn in where you were using npm before, and get faster, more reliable installs. Yarn is a package manager for JavaScript.*

sudo npm install -g yarn

**STEP 11 install wkhtmltopdf**

*Wkhtmltopdf is an open source simple and much effective command-line shell utility that enables user to convert any given HTML (Web Page) to PDF document or an image (jpg, png, etc)*

sudo apt-get install xvfb libfontconfig wkhtmltopdf

**STEP 12 install frappe-bench**

sudo -H pip3 install frappe-bench

bench --version

**STEP 13 initilise the frappe bench & install frappe latest version**

bench init frappe-bench --frappe-branch version-13

cd frappe-bench/

bench start

**STEP 14 create a site in frappe bench**

bench new-site dcode.com

**STEP 15 install ERPNext latest version in bench & site**

bench get-app erpnext --branch version-13

###OR

bench get-app https://github.com/frappe/erpnext --branch version-13

bench --site dcode.com install-app erpnext

bench start