# -Vipul

# Bare Metal Setup

**Ubuntu ≥ 20.04**

**Postgresql**

# Installation Steps

**Install System Packages**

sudo apt-get update

sudo apt-get install \

python3 python3-dev python3-pip python3-invoke python3-venv \

git gcc g++ gettext gnupg \

poppler-utils libpango-1.0-0 libpangoft2-1.0-0 \

libjpeg-dev webp

**Create a python virtual environment**

python3 -m venv ./venv

**Activate virtual environment(venv)**

source venv/bin/activate

**Install weasyprint**

*To install WeasyPrint inside a virtualenv using wheels (if possible), you need the following packages:*

apt install python3-pip python3-cffi python3-brotli libpango-1.0-0 libharfbuzz0b libpangoft2-1.0-0

**Create InvenTree User**

sudo useradd -m -d /home/inventree -s /bin/bash inventree

sudo su inventree

cd /home/inventree

mkdir log static data

git clone https://github.com/inventree/inventree src

**Install InventTree Packages**

pip install -U -r src/requirements.txt

**Create Database**

sudo apt-get install postgresql postgresql-contrib and libpq-dev

sudo service postgresql start

**Create Database and User**

sudo -u postgres psql

*Enter the bulleted commands into the interactive database shell:*

*(‘Inventree’ can be replaced by a database name of your choice)*

*(Replace ‘myuser’ and ‘mypass’ with user and password of your choice)*

* create database inventree;
* create user myuser with encrypted password 'mypass';
* grant all privileges on database inventree to myuser;

**Install Python Bindings**

pip3 install psycopg2 pgcli

**Edit the configuration file**

cp /home/inventree/src/InvenTree/config\_template.yaml /home/inventree/src/InvenTree/config.yaml

nano /home/inventree/src/InvenTree/config.yaml

or

vim /home/inventree/src/InvenTree/config.yaml

*In the Editor*

*Uncomment the lines below* and replace with your variables

# --- Example Configuration - Postgresql ---

ENGINE: postgresql

NAME: inventree

USER: myuser

PASSWORD: mypass

HOST: 'localhost'

PORT: '5432'

**Initialize Database**

cd /home/inventree/src

invoke update

**Create admin account**

invoke superuser

***Commands to start the development server from system bootup***

cd /home/inventree/src

source ../env/bin/activate

sudo service postgresql start

invoke worker &

invoke server

# List of Components Needed for Bare Metal Dev Setup

**System Packages –**

Python >= 3.8

Invoke >= 1.4.0

postgresql

postgresql-contrib

libpq-dev

gcc – latest

g++ – latest

gettext – latest

python3-dev – latest

python3-pip – latest

python3-invoke – latest

python3-venv – latest

git – latest

gcc – latest

g++ – latest

gettext – latest

gnupg – latest

poppler-utils – latest

libpango – 1.0-0

libpangoft – 2-1.0-0

libjpeg-dev – latest

webp – latest

**Python Package**

Django==3.2.13 # Django package

bleach==4.1.0 # HTML santization

certifi # Certifi is (most likely) installed through one of the requirements above

coreapi==2.3.0 # API documentation

coverage==5.3 # Unit test coverage

coveralls==2.1.2 # Coveralls linking (for Travis)

cryptography==3.4.8 # Cryptography support

django-admin-shell==0.1.2 # Python shell for the admin interface

django-allauth==0.48.0 # SSO for external providers via OpenID

django-allauth-2fa==0.9 # MFA / 2FA

django-cleanup==5.1.0 # Manage deletion of old / unused uploaded files

django-cors-headers==3.2.0 # CORS headers extension for DRF

django-crispy-forms==1.11.2 # Form helpers

django-debug-toolbar==3.2.4 # Debug / profiling toolbar

django-error-report==0.2.0 # Error report viewer for the admin interface

django-filter==2.4.0 # Extended filtering options

django-formtools==2.3 # Form wizard tools

django-import-export==2.5.0 # Data import / export for admin interface

django-maintenance-mode==0.16.1 # Shut down application while reloading etc.

django-markdownify==0.8.0 # Markdown rendering

django-markdownx==3.0.1 # Markdown form fields

django-money==1.1 # Django app for currency management

django-mptt==0.11.0 # Modified Preorder Tree Traversal

django-redis>=5.0.0 # Redis integration

django-q==1.3.4 # Background task scheduling

django-sql-utils==0.5.0 # Advanced query annotation / aggregation

django-sslserver==0.22 # Secure HTTP development server

django-stdimage==5.1.1 # Advanced ImageField management

django-test-migrations==1.1.0 # Unit testing for database migrations

django-user-sessions==1.7.1 # user sessions in DB

django-weasyprint==2.1.0 # django weasyprint integration

djangorestframework==3.12.4 # DRF framework

django-xforwardedfor-middleware==2.0 # IP forwarding metadata

flake8==3.8.3 # PEP checking

flake8-docstrings==1.6.0 # docstring format testing

gunicorn>=20.1.0 # Gunicorn web server

importlib\_metadata # Backport for importlib.metadata

isort==5.10.1 # DEV: python import sorting

markdown==3.3.4 # Force particular version of markdown

pdf2image==1.16.0 # PDF to image conversion

pep8-naming==0.11.1 # PEP naming convention extension

pre-commit==2.19.0 # Git pre-commit

pillow==9.1.1 # Image manipulation

py-moneyed==0.8.0 # Specific version requirement for py-moneyed

pygments==2.7.4 # Syntax highlighting

python-barcode[images]==0.13.1 # Barcode generator

qrcode[pil]==6.1 # QR code generator

rapidfuzz==0.7.6 # Fuzzy string matching

sentry-sdk==1.5.12 # Error reporting (optional)

tablib[xls,xlsx,yaml] # Support for XLS and XLSX formats

weasyprint==55.0 # PDF generation library

**PostgreSQL Python Packages**

*(using pip)*

psycopg2 – latest

pgcli – latest

Views

Django Apps

Part  
order  
stock  
company  
…

Models

InvenTree

URL

Database