PPDM

Environment setup

Prepare the Server

- 1. Choose the Operating System:
- 2. Choose the Operating System:
 - a. Most commonly, Ubuntu LTS (e.g., 20.04 or 22.04) is used for deploying Odoo.
- 3. Update the System:

sudo apt update sudo apt upgrade -y

2. Install Dependencies

1. Install Python and Other Dependencies:

sudo apt install python3 python3-pip build-essential wget python3-dev python3-venv \ libxml2-dev libxslt1-dev zlib1g-dev libsasl2-dev libldap2-dev \ libpng-dev libpq-dev libfi-dev libssl-dev -y

2. Install PostgreSQL:

sudo apt install postgresql postgresql-server-dev-all -y sudo -i -u postgres createuser --createdb --username postgres --no-createrole --no-superuser --pwprompt odoo createdb --username postgres --owner odoo odoo exit

3. Install Odoo

1. Create a System User for Odoo:

sudo adduser --system --home=/opt/odoo --group odoo

2. Download Odoo Source Code:

sudo apt install git

sudo git clone https://www.github.com/odoo/odoo --depth 1 --branch 14.0 --single-branch /opt/odoo/odoo

3. Create a Python Virtual Environment:

cd /opt/odoo

sudo python3 -m venv odoo-venv

source odoo-venv/bin/activate

pip install wheel

pip install -r odoo/requirements.txt

Deactivate

4. Install Wkhtmltopdf (for PDF generation in Odoo):

sudo apt install xfonts-75dpi

wget

https://github.com/wkhtmltopdf/packaging/releases/download/0.12.6-1/wkhtmltox_0.12.6-1.bionic_amd64.deb

sudo dpkg -i wkhtmltox_0.12.6-1.bionic_amd64.deb

sudo apt -f install -y

4. Configure Odoo

1. Create Odoo Configuration File:

Add the following content to the file:

```
[options]
; This is the password that allows database operations:
admin_passwd = admin
db_host = False
db_port = False
db_user = odoo
db_password = False
addons_path = /opt/odoo/odoo/addons
```

2.Set File Permissions:

```
sudo chown odoo: /etc/odoo.conf
sudo chmod 640 /etc/odoo.conf
```

5. Setup Systemd Service

1.Create a Systemd Service File for Odoo:

sudo nano /etc/systemd/system/odoo.service

Add the following content:

```
[Unit]
Description=Odoo
Documentation=https://www.odoo.com
[Service]
# Ubuntu/Debian convention:
Type=simple
User=odoo
```

ExecStart=/opt/odoo/odoo-venv/bin/python3 /opt/odoo/odoo/odoo-bin -c /etc/odoo.conf [Install]
WantedBy=default.target

2. Start and Enable the Odoo Service:

sudo systemctl daemon-reload

sudo systemctl start odoo

sudo systemctl enable odoo

6. Configure Reverse Proxy with Nginx

```
1.Install Nginx:
```

sudo apt install nginx -y

2. Create Nginx Configuration for Odoo:

sudo nano /etc/nginx/sites-available/odoo

Add the following content:

```
server {
```

listen 80;

server_name your_domain_or_IP;

```
proxy_read_timeout 720s;
proxy_connect_timeout 720s;
proxy_send_timeout 720s;
# Add Headers for odoo proxy mode
proxy_set_header X-Forwarded-Host $host;
proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
proxy_set_header X-Forwarded-Proto $scheme;
proxy_set_header X-Real-IP $remote_addr;
# log files
access_log /var/log/nginx/odoo.access.log;
error_log /var/log/nginx/odoo.error.log;
# Proxy requests to odoo backend
location / {
  proxy_pass http://127.0.0.1:8069;
  proxy_redirect off;
}
# Cache static files
```

```
location ~* /web/static/ {
    proxy_cache_valid 200 60m;
    proxy_buffering on;
    expires 864000;
    proxy_pass http://127.0.0.1:8069;
    }
}

3.Enable Nginx Configuration:

sudo ln -s /etc/nginx/sites-available/odoo /etc/nginx/sites-enabled/
sudo nginx -t
sudo systemctl restart nginx
```

7. Secure the Installation

1. Secure Odoo with SSL (optional but recommended):

Use Let's Encrypt for a free SSL certificate.
 sudo apt install certbot python3-certbot-nginx -y
 sudo certbot --nginx -d your_domain_or_IP

2.Enable Firewall:

sudo ufw allow OpenSSH

sudo ufw allow 'Nginx Full'

sudo ufw enable

8. Access Odoo

• Open a web browser and navigate to http://your_domain_or_IP. You should see the Odoo login page.