ODOO15
INSTALLATION TUTORIAL
IN Isard

INTRODUCTION

Installation tutorial of *Odoo 15 Community* with the Ubuntu 22.04 operating system.

STEPS

1. Install initial dependencies.

During the installation process of the dependencies, by default, whenever it asks us *do you wish to continue?* we will say yes

We need to check your python version first. It must be equal to or greater than 3.7.

```
isard@ubuntu:~$ python3 --version
Python 3.10.12
```

```
isard@ubuntu:~$ sudo apt update
[sudo] password for isard:
Hit:1 http://packages.microsoft.com/repos/code stable InRelease
Hit:2 http://es.archive.ubuntu.com/ubuntu jammy InRelease
Get:3 http://es.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Hit:4 http://es.archive.ubuntu.com/ubuntu jammy-backports InRelease
Get:5 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Fetched 229 kB in 1s (372 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
290 packages can be upgraded. Run 'apt list --upgradable' to see them.
```

```
isard@ubuntu:~$ sudo apt install git
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
git is already the newest version (1:2.34.1-1ubuntu1.10).
The following packages were automatically installed and are no longer required:
  linux-headers-5.19.0-41-generic linux-hwe-5.19-headers-5.19.0-41
  linux-image-5.19.0-41-generic linux-modules-5.19.0-41-generic
  linux-modules-extra-5.19.0-41-generic
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 290 not upgraded.
```

```
isard@ubuntu:~$ sudo apt install python3-venv
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
python3-venv is already the newest version (3.10.6-1~22.04).
The following packages were automatically installed and are no longer required:
  linux-headers-5.19.0-41-generic linux-hwe-5.19-headers-5.19.0-41
  linux-image-5.19.0-41-generic linux-modules-5.19.0-41-generic
  linux-modules-extra-5.19.0-41-generic
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 290 not upgraded.
```

```
isard@ubuntu:~$ sudo apt install python3-dev libxml2-dev libxslt1-dev libldap2-dev libsasl2-dev \
   libtiff5-dev libjpeg8-dev libopenjp2-7-dev zlib1g-dev libfreetype6-dev \
   liblcms2-dev libwebp-dev libharfbuzz-dev libfribidi-dev libxcb1-dev libpq-dev
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
libjpeg8-dev is already the newest version (8c-2ubuntu10).
liblcms2-dev is already the newest version (2.12~rc1-2build2).
libopenjp2-7-dev is already the newest version (2.4.0-6).
libxcb1-dev is already the newest version (1.14-3ubuntu3).
libfreetype6-dev is already the newest version (2.11.1+dfsg-1ubuntu0.2).
libfribidi-dev is already the newest version (1.0.8-2ubuntu3.1).
libharfbuzz-dev is already the newest version (2.7.4-1ubuntu3.1).
libldap2-dev is already the newest version (2.5.16+dfsg-0ubuntu0.22.04.1).
libpq-dev is already the newest version (14.10-0ubuntu0.22.04.1).
libsasl2-dev is already the newest version (2.1.27+dfsg2-3ubuntu1.2).
libtiff5-dev is already the newest version (4.3.0-6ubuntu0.7).
libwebp-dev is already the newest version (1.2.2-2ubuntu0.22.04.2).
libxml2-dev is already the newest version (2.9.13+dfsg-1ubuntu0.3).
libxslt1-dev is already the newest version (1.1.34-4ubuntu0.22.04.1).
python3-dev is already the newest version (3.10.6-1~22.04).
zlib1g-dev is already the newest version (1:1.2.11.dfsg-2ubuntu9.2).
The following packages were automatically installed and are no longer required:
  linux-headers-5.19.0-41-generic linux-hwe-5.19-headers-5.19.0-41
  linux-image-5.19.0-41-generic linux-modules-5.19.0-41-generic
  linux-modules-extra-5.19.0-41-generic
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 290 not upgraded.
```

2. Create a system user for the Odoo environment

Running Odoo as root is a security risk.

That is why we will create a new system user that we will use to run the odoo service.

```
0 upgraded, 0 newly installed, 0 to remove and 290 not u
isard@ubuntu:~$ sudo adduser odoo13
Adding user `odoo13' ...
Adding new group `odoo13' (1001) ...
Adding new user `odoo13' (1001) with group `odoo13' ...
Creating home directory `/home/odoo13' ...
Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
Changing the user information for odoo13
Enter the new value, or press ENTER for the default
        Full Name []:
        Room Number []:
        Work Phone []:
        Home Phone []:
        Other []:
Is the information correct? [Y/n] y
```

We leave all the fields that ask us blank, and at the end we say yes (Y).

3. Install and configure PostgreSQL

```
isard@ubuntu:~$ sudo apt install postgresql postgresql-client
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
postgresql is already the newest version (14+238).
postgresql-client is already the newest version (14+238).
The following packages were automatically installed and are no longer required:
  linux-headers-5.19.0-41-generic linux-hwe-5.19-headers-5.19.0-41
  linux-image-5.19.0-41-generic linux-modules-5.19.0-41-generic
  linux-modules-extra-5.19.0-41-generic
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 290 not upgraded.
```

We will have to create a PostgreSQL user to be able to access the DB.

We can create the user with the name and password we want.

```
isard@ubuntu:~$ sudo -u postgres createuser -sP odoo13
could not change directory to "/home/isard": Permission denied
Enter password for new role:
Enter it again:
isard@ubuntu:~$ sudo -u postgres psql -c "\du"
could not change directory to "/home/isard": Permission denied
                                   List of roles
 Role name |                         Attributes                         | Member of
-----------+------------------------------------------------------------+-----------
 odoo12    | Superuser, Create role, Create DB                          | {}
 odoo13    | Superuser, Create role, Create DB                          | {}
 postgres  | Superuser, Create role, Create DB, Replication, Bypass RLS | {}
```

4. Install wkhtmltopdf

Package of tools necessary for the operation of odoo.

They are responsible for generating the pdf reports.

4.1. Ubuntu server 22.04

First we need to download **libssl1.1**.

```
isard@ubuntu:~$ wget http://archive.ubuntu.com/ubuntu/pool/main/o/openssl/libssl1.1_1.1.0g-2ubuntu4
_amd64.deb
--2023-12-13 10:16:51--  http://archive.ubuntu.com/ubuntu/pool/main/o/openssl/libssl1.1_1.1.0g-2ubu
ntu4_amd64.deb
Resolving archive.ubuntu.com (archive.ubuntu.com)... 91.189.91.83, 185.125.190.39, 91.189.91.82, ..
.
Connecting to archive.ubuntu.com (archive.ubuntu.com)|91.189.91.83|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1128092 (1,1M) [application/vnd.debian.binary-package]
Saving to: ‘libssl1.1_1.1.0g-2ubuntu4_amd64.deb’

libssl1.1_1.1.0g-2ubunt 100%[=============================>]   1,08M  1,92MB/s    in 0,6s

2023-12-13 10:16:52 (1,92 MB/s) - ‘libssl1.1_1.1.0g-2ubuntu4_amd64.deb’ saved [1128092/1128092]
```

Then we install it:

```
isard@ubuntu:~$ sudo dpkg -i libssl1.1_1.1.0g-2ubuntu4_amd64.deb
(Reading database ... 263018 files and directories currently installed.)
Preparing to unpack libssl1.1_1.1.0g-2ubuntu4_amd64.deb ...
Unpacking libssl1.1:amd64 (1.1.0g-2ubuntu4) over (1.1.0g-2ubuntu4) ...
Setting up libssl1.1:amd64 (1.1.0g-2ubuntu4) ...
Processing triggers for libc-bin (2.35-0ubuntu3.1) ...
```

We unload **wkhtmltopdf**

```
isard@ubuntu:~$ wget https://github.com/wkhtmltopdf/packaging/releases/download/0.12.6-1/wkhtmltox_
0.12.6-1.focal_amd64.deb
--2023-12-13 10:17:24--  https://github.com/wkhtmltopdf/packaging/releases/download/0.12.6-1/wkhtml
tox_0.12.6-1.focal_amd64.deb
Resolving github.com (github.com)... 140.82.121.4
Connecting to github.com (github.com)|140.82.121.4|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://objects.githubusercontent.com/github-production-release-asset-2e65be/131323182/10
e1d800-ab93-11ea-862e-4f209c09ebf0?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAIWNJYAX4CS
VEH53A%2F20231213%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20231213T091724Z&X-Amz-Expires=300&X-A
mz-Signature=986db0b5c3cb9f0f601c8dc0213bdb53fac06769bbc269010a28cd0e5ef749db&X-Amz-SignedHeaders=h
ost&actor_id=0&key_id=0&repo_id=131323182&response-content-disposition=attachment%3B%20filename%3Dw
khtmltox_0.12.6-1.focal_amd64.deb&response-content-type=application%2Foctet-stream [following]
--2023-12-13 10:17:24--  https://objects.githubusercontent.com/github-production-release-asset-2e65
be/131323182/10e1d800-ab93-11ea-862e-4f209c09ebf0?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential
=AKIAIWNJYAX4CSVEH53A%2F20231213%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20231213T091724Z&X-Amz-
Expires=300&X-Amz-Signature=986db0b5c3cb9f0f601c8dc0213bdb53fac06769bbc269010a28cd0e5ef749db&X-Amz-
SignedHeaders=host&actor_id=0&key_id=0&repo_id=131323182&response-content-disposition=attachment%3B
%20filename%3Dwkhtmltox_0.12.6-1.focal_amd64.deb&response-content-type=application%2Foctet-stream
Resolving objects.githubusercontent.com (objects.githubusercontent.com)... 185.199.111.133, 185.199
.108.133, 185.199.110.133, ...
Connecting to objects.githubusercontent.com (objects.githubusercontent.com)|185.199.111.133|:443...
 connected.
HTTP request sent, awaiting response... 200 OK
Length: 15721382 (15M) [application/octet-stream]
Saving to: ‘wkhtmltox_0.12.6-1.focal_amd64.deb’

wkhtmltox_0.12.6-1.foca 100%[=============================>]  14,99M  --.-KB/s    in 0,05s

2023-12-13 10:17:24 (299 MB/s) - ‘wkhtmltox_0.12.6-1.focal_amd64.deb’ saved [15721382/15721382]
```

```
isard@ubuntu:~$ sudo chmod +x wkhtmltox_0.12.6-1.focal_amd64.deb
```

Then we install it:

```
isard@ubuntu:~$ sudo apt install ./wkhtmltox_0.12.6-1.focal_amd64.deb
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Note, selecting 'wkhtmltox' instead of './wkhtmltox_0.12.6-1.focal_amd64.deb'
wkhtmltox is already the newest version (1:0.12.6-1.focal).
The following packages were automatically installed and are no longer required:
  linux-headers-5.19.0-41-generic linux-hwe-5.19-headers-5.19.0-41
  linux-image-5.19.0-41-generic linux-modules-5.19.0-41-generic
  linux-modules-extra-5.19.0-41-generic
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 290 not upgraded.
```

Let's create a symbolic link

```
isard@ubuntu:~$ sudo ln -s /usr/local/bin/wkhtmltopdf /usr/bin/wkhtmltopdf
ln: failed to create symbolic link '/usr/bin/wkhtmltopdf': File exists
```

We make sure it works properly

```
isard@ubuntu:~$ wkhtmltopdf --version
wkhtmltopdf 0.12.6 (with patched qt)
```

5. Install Odoo 15 Community

5.1. Switch to the odoo system user

```
isard@ubuntu:~$ su odoo13
Password:
```

5.2. We make sure that we are inside the user's folder *odoo13*

```
odoo13@ubuntu:/home/isard$ cd /home/odoo13/
```

5.3. Let's download the Odoo code from github

It's very important to put in the clone:

- **The *depth 1*** since it tells us to download only the latest version of the branch (branch) of the project.
- **branch 15.0**: indicate the branch we want to download.
- **single-branch**

Not adding these options would download the entire project with the code of all the branches!

```
odoo13@ubuntu:~$ git clone https://github.com/Odoo/odoo.git --depth 1 --branch 15.0 --single-branch
 odoo
S'està clonant a «odoo»...
remote: Enumerating objects: 35308, done.
remote: Counting objects: 100% (35308/35308), done.
remote: Compressing objects: 100% (27230/27230), done.
remote: Total 35308 (delta 9755), reused 22095 (delta 6789), pack-reused 0
S'estan rebent objectes: 100% (35308/35308), 147.04 MiB | 4.66 MiB/s, fet.
S'estan resolent les diferències: 100% (9755/9755), fet.
S'estan actualitzant els fitxers: 100% (31023/31023), fet.
```

5.4. Now to make one *or ones* we must have a folder called *odoo* where we will have all the files we downloaded from github.

```
odoo13@ubuntu:~$ ls
odoo
```

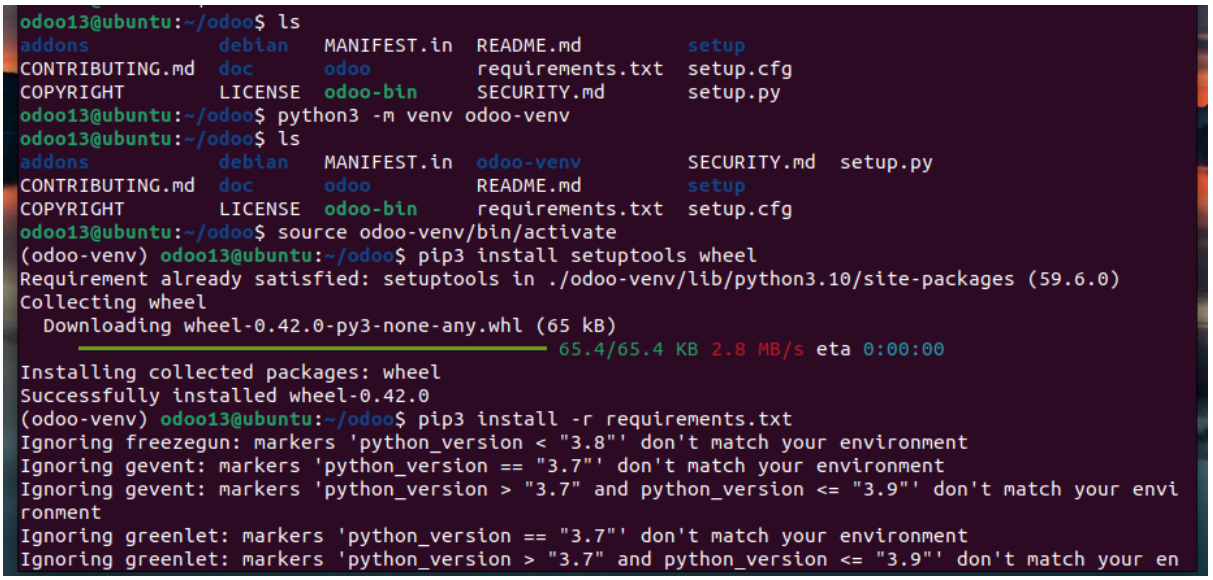
6. Create a python virtual environment

6.1. Let's continue with the system's odoo13 user

6.2. Let's go inside the folder *odoo*

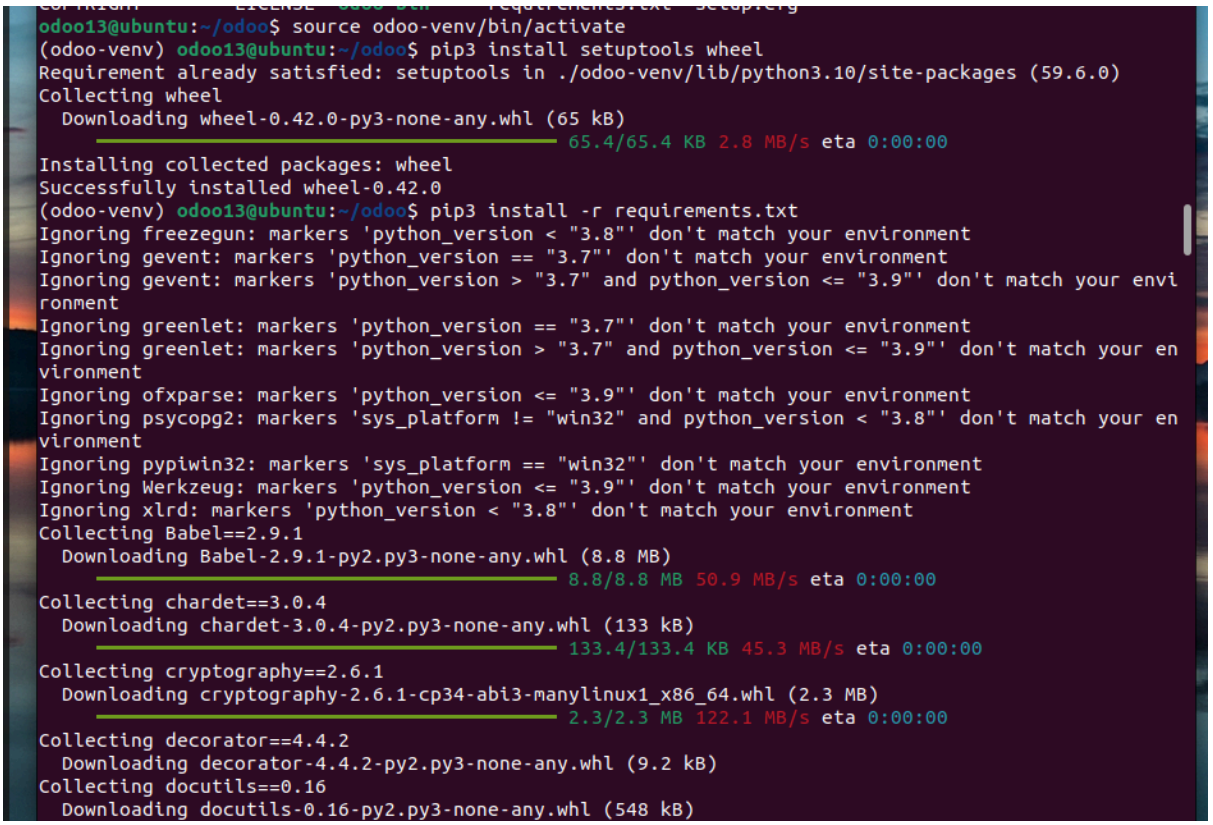
```
odoo13@ubuntu:~$ cd odoo
```

6.3. And we do one “*ls”* we will see the files and folders we have inside odoo and let's create a python virtual environment inside the folder *Odoo and* activate the python virtual environment



If the following command line appears, it means that we have activated the virtual environment.

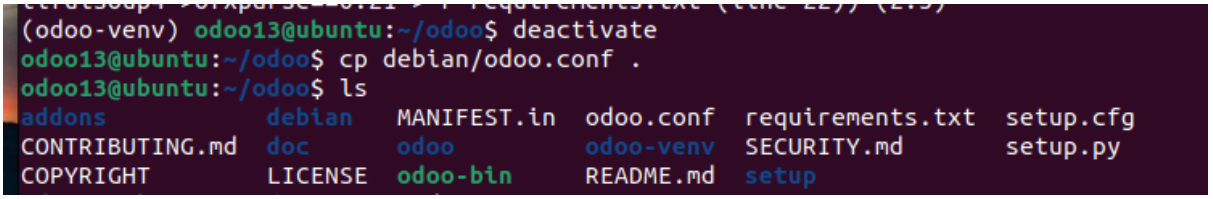
6.4. We install all the python requirements inside the virtual directory (with the virtual environment enabled)



It takes a while to install the requirements. It may give some errors that we will ignore...

6.5. Disable virtual directory

Once the previous steps have been completed, we will have to deactivate the python virtual environment



7. Configure Odoo 15 Community

7.1. First we make sure that:

- we are inside the folder *odoo*
- we have python virtual directory disabled
- we are with the system user we created by odoo, in our case,*odoo13*.

7.2. Let's copy the file *odoo.config* which is inside the folder *debian* in the root folder

```
odoo13@ubuntu:~/odoo$ cp debian/odoo.conf .
odoo13@ubuntu:~/odoo$ ls
addons            debian    MANIFEST.in  odoo.conf     requirements.txt  setup.cfg
CONTRIBUTING.md   doc       odoo         odoo-venv     SECURITY.md       setup.py
COPYRIGHT         LICENSE   odoo-bin     README.md     setup
```

7.3. We will modify the odoo.conf configuration file.

We will need to modify the odoo configuration file

We will access the file with:

```
odoo13@ubuntu:~/odoo$ nano odoo.conf
```

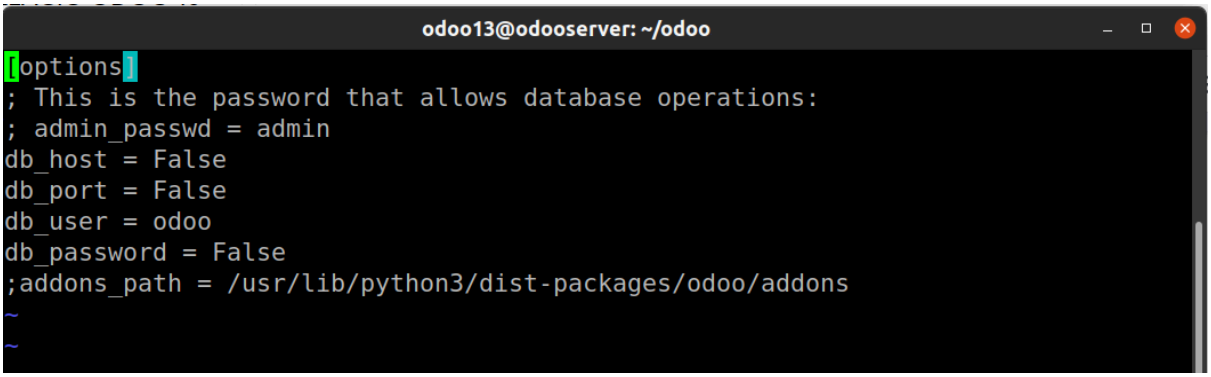
——----------

or in the following way:

```
sudo
```

Note: If you get an error trying to access the configuration file try without it *sudo* initial.

Initially we will find it like this:



Then we can copy the following code and replace it with the default:

```
[options]
; This is the password that allows database operations:
admin_passwd = odoo13
db_host = False
db_port = False
db_user = odoo13
db_password = odoo13
addons_path = /home/odoo13/odoo/addons
```

Note about the file:

- *admin_passwd* = odoo admin password. It must match what we will put in the initial form when starting odoo for the first time.
- *db_user* = must match the postgreSql user we created in point 4.
- *db_password* = must match the postgreSql password we created in point 4.
- *addons_path* = must match according to the system user created to run *odoo* and depending on where you have the folder *odoo*.

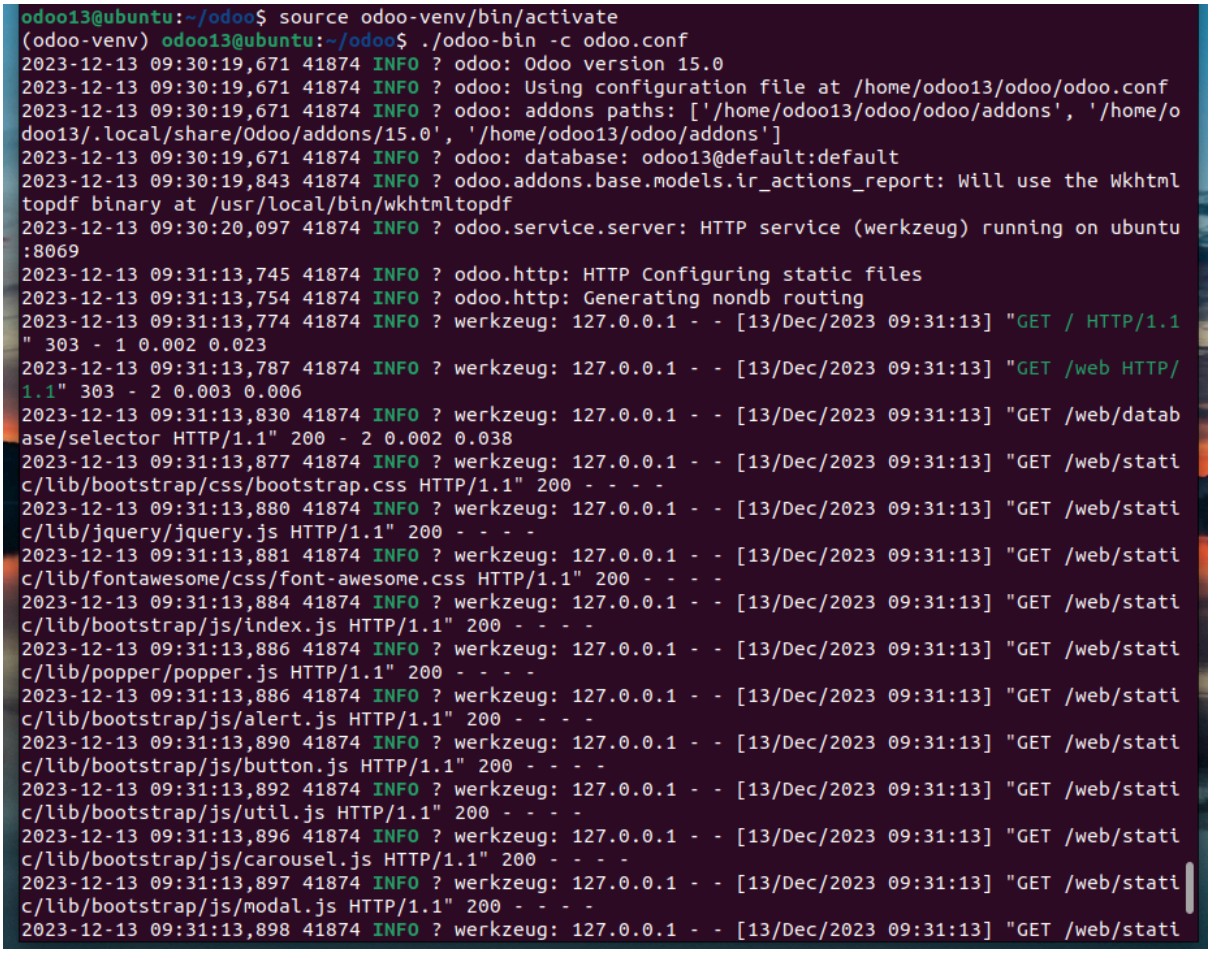
8. First access to Odoo

8.1. Start odoo without a server service

8.1.1. First we make sure that:

- we are inside the folder *odoo*
- we are with the system user we created by odoo, in our case,*odoo13*.

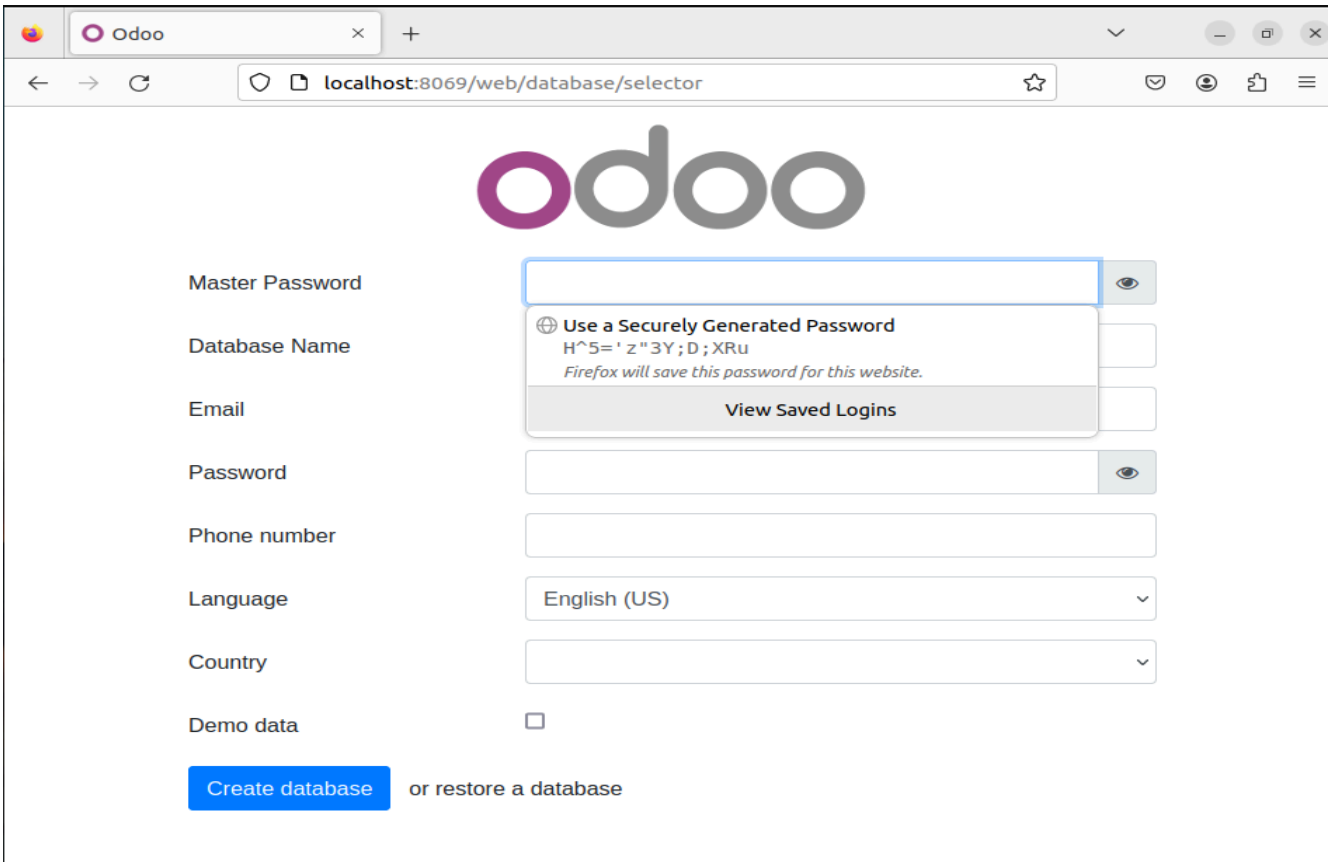
8.1.2. Let's start the Python virtual directory and Run odoo



8.2. Access odoo

Once odoo is started, we can access it through the browser and the following url:

Localhost:8069



OR

http://IP_SERVIDOR:8069/web