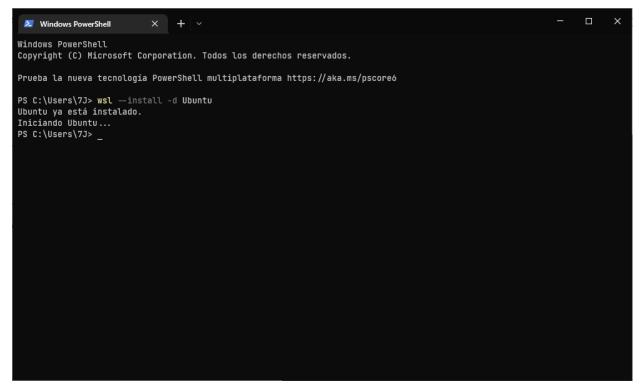


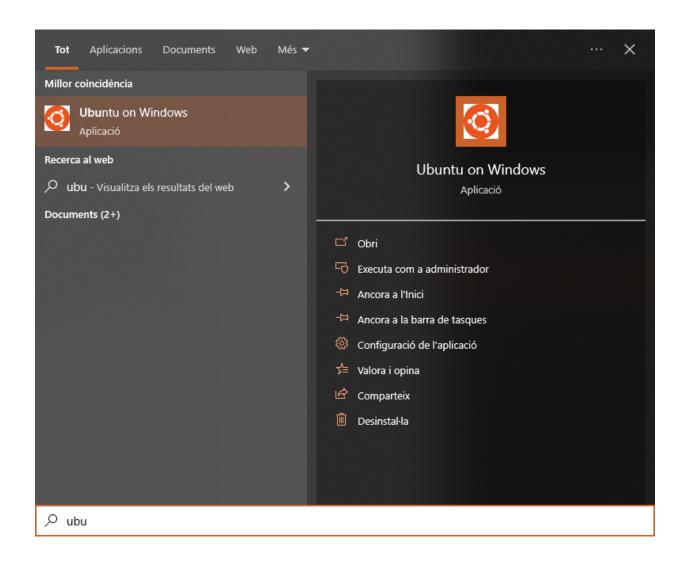
## Odoo + WSL + Pycharm

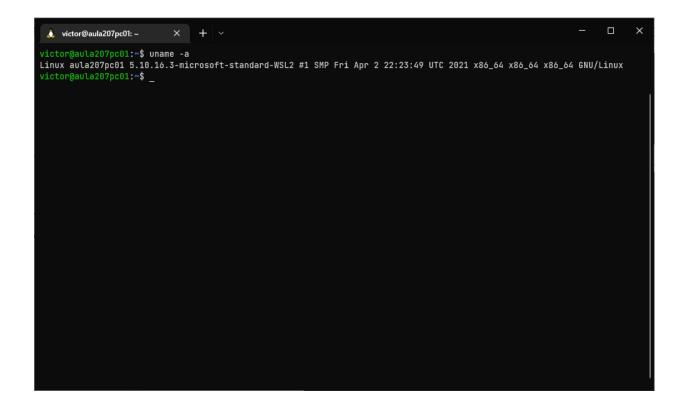
Víctor Piles.

## 1) Instalación del WSL (Microsoft Docs)

wsl --install -d Ubuntu







# 2) Instalación de Odoo (Odoo Docs)

Instalamos las dependencias.

install python3-dev libxml2-dev libxslt1-dev libldap2-dev sudo apt libsasl2-dev libtiff5-dev libjpeg8-dev libopenjp2-7-dev zlib1q-dev libfreetype6-dev liblcms2-dev libwebp-dev libharfbuzz-dev libfribidi-dev libxcb1-dev libpg-dev

```
© Seleccionar victor@aula207pc01:~$ sudo apt install python3-dev libxml2-dev libxslt1-dev libldap2-dev libsasl2-dev \libtiff5-dev libj ^ peg62-turbo-dev libopenjp2-7-dev zliblg-dev libfreetype6-dev \liblcms2-dev libwebp-dev libharfbuzz-dev libfribidi-dev lib xcb1-dev lippq-dev Reading package lists... Done Building dependency tree Reading state information... Done python3-dev is already the newest version (3.5.3-1). python3-dev set to manually installed. The following package was automatically installed and is no longer required: ucf

Use 'sudo apt autoremove' to remove it.

The following additional packages will be installed: icu-devtools libfreetype6 libfribidio libglib2.0-bin libglib2.0-dev libgraphite2-3 libgraphite2-dev libharfbuzz-gobject0 libharfbuzz-icu0 libharfbuzze0b libicu-dev libjbig_dev libjbig@ libjbeg62-turbo liblcms2-2 liblzma-dev liblzmas libopenjp2-7 libpcre6-3 libpcre3-3 versioned libxebpdemux2 libxau-dev libxau-dev libxau-dev libzharfbuzz-dev libtriffxs libtiffxx5 libwebp6 libwebpdemux2 libwebpmux2 libxau-dev libxau-dev libxau-dev libzharfbuzz-dev libjzend-dev libglib2.0-dev libjbig_dev libjbig_0 libjpeg62-turbo libjpeg62-turbo-dev liblcms2-2 liblcms2-dev libharfbuzz-gobject0 libharfbuzz-dev libharfbuzz-dev libharfbuzz-dev libharfbuzz-dev libharfbuzz-dev libharfbuzz-dev libharfbuzz-dev libharfbuzz-dev libhyarg-dev libpng10-10 li
```

#### sudo apt install python3-pip

```
victor@aula207pc01:~$ sudo apt install python3-pip
Reading package lists... Done
Building dependency tree
Reading state information... Done
python3-pip is already the newest version (9.0.1-2+deb9u2).
0 upgraded, 0 neuly installed, 0 to remove and 52 not upgraded.
victor@aula207pc01:~$ ■
```

PostgreSQL

sudo apt-get install postgresql postgresql-client

```
victor@aula207pc01:~$ sudo apt-get install postgresql postgresql-client
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
    distro-info-data libsensors4 lsb-release postgresql-9.6 postgresql-client-9.6 postgresql-client-common
    postgresql-common postgresql-contrib-9.6 ssl-cert sysstat ucf
Suggested packages:
    lm-sensors lsb postgresql-doc locales-all postgresql-doc-9.6 libdbd-pg-perl openssl-blacklist isag
The following NEW packages will be installed:
    distro-info-data libsensors4 lsb-release postgresql-postgresql-9.6 postgresql-client postgresql-client-9.6
    postgresql-client-common postgresql-contrib-9.6 ssl-cert sysstat ucf
O upgraded, 13 newly installed, 0 to remove and 52 not upgraded.
Need to get 5,539 kB/7,072 kB of archives.
After this operation, 32.5 MB of additional disk space will be used.
Do you want to continue? [Y/n]
```

Clonamos el repositorio de Odoo.

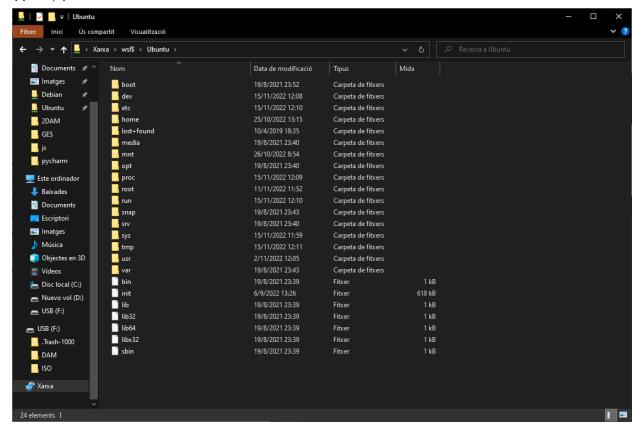
git clone https://github.com/odoo/odoo --depth 1 --branch 13.0 odoo

```
    victor@aula207pc01:~
    victor@aula207pc01:~
    yictor@aula207pc01:~
    pit clone https://github.com/odoo/odoo --depth 1 --branch 13.0 odoo
Cloning into 'odoo'...
```

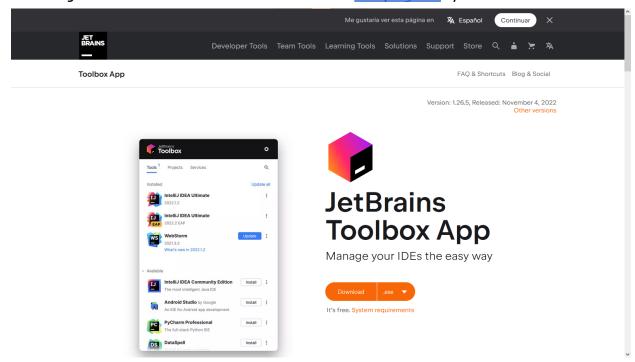
### 3) Pycharm en Windows 10

Desde el explorador de archivos podemos acceder a los ficheros de Ubuntu WSL.

#### \\wsl\$\Ubuntu

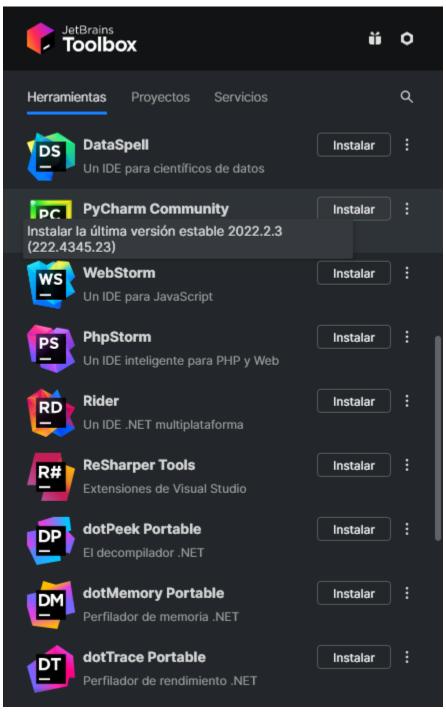


Nos bajamos Jetbrains Toolbox desde su página y lo instalamos.

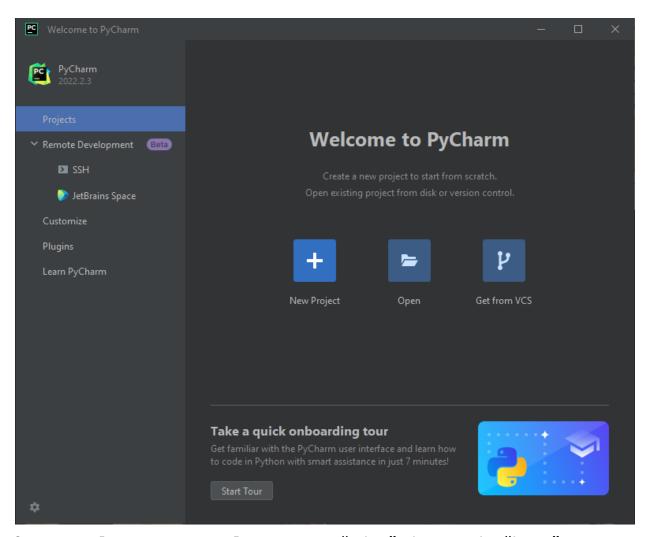


Desde la app podemos gestionar e instalar diferentes versiones de los IDE de Jetbrains.

Instalamos Pycharm Community.

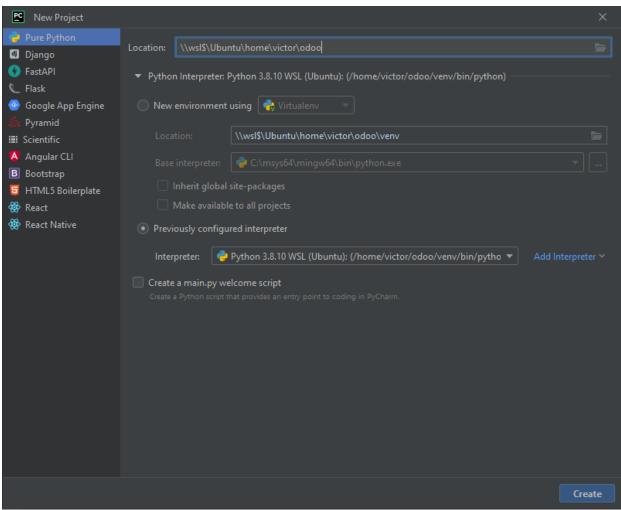


Abrimos PyCharm y le damos a "New Project".

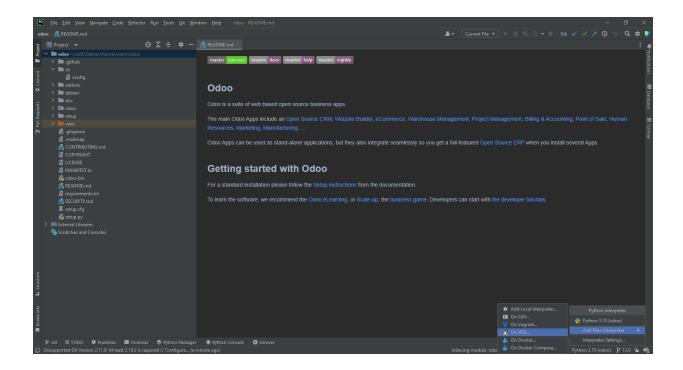


Creamos el proyecto en la carpeta "odoo" dentro de "home" en Ubuntu.

### \\wsl\$\Ubuntu\home\victor\odoo

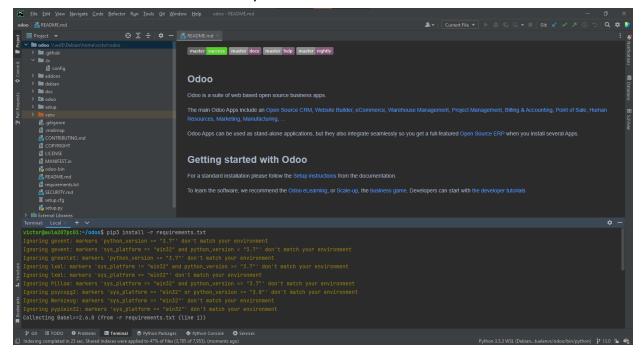


Configuramos el intérprete de Python para que use el del "virtualenv" WSL.



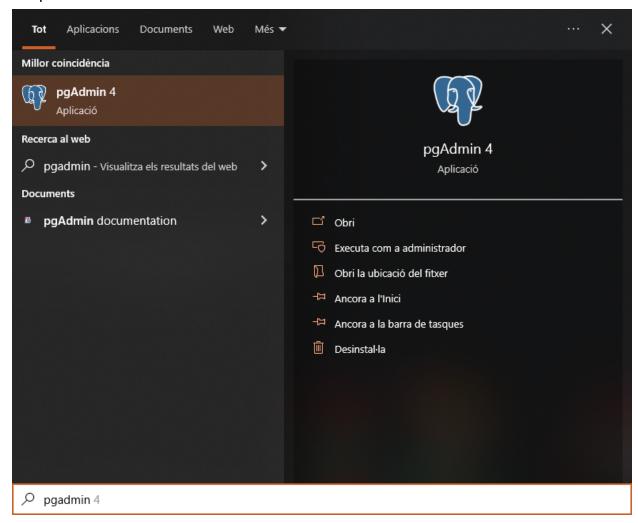
Instalamos las dependencias del proyecto. pip3 install -r requirements.txt

Nótese que el terminal que se me ha abierto es el de WSL, no el cmd de Windows. Lo hace Pycharm de forma automática.



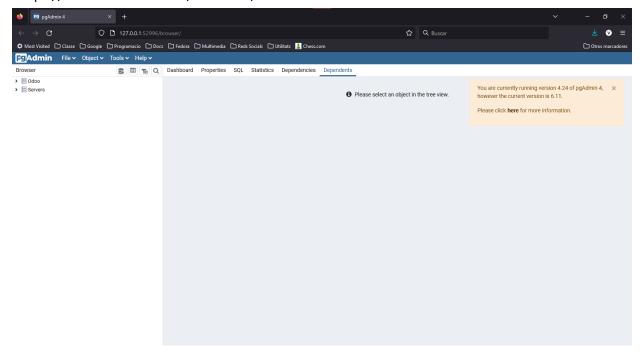
## 4) PGAdmin Windows 10

Descargamos PGAdmin desde su <u>página oficial</u> e instalamos. Después lo abrimos.



Se ejecuta en el navegador.

#### http://127.0.0.1:52996/browser/



Ahora nos vamos a conectar a la base de datos del subsistema. Encontraremos la IP del subsistema en el terminal. ip a

```
+ | ~
 🉏 victor@aula207pc01: ~
                           ×
victor@aula207pc01:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
      valid_lft forever preferred_lft forever
2: bond0: <BROADCAST,MULTICAST,MASTER> mtu 1500 qdisc noop state DOWN group default qlen 1000
   link/ether ee:b1:22:fb:b5:af brd ff:ff:ff:ff:ff
3: dummy0: <BROADCAST,NOARP> mtu 1500 qdisc noop state DOWN group default qlen 1000
link/ether fe:e5:ed:bb:01:5b brd ff:ff:ff:ff:ff
4: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000
    link/ether 00:15:5d:a8:c0:0a brd ff:ff:ff:ff:ff
    inet 172.19.231.29/20 brd 172.19.239.255 scope global eth0
      valid_lft forever preferred_lft forever
    inet6 fe80::215:5dff:fea8:c00a/64 scope link
       valid_lft forever preferred_lft forever
5: tunl@@NONE: <NOARP> mtu 1480 qdisc noop state DOWN group default qlen 1000
    link/ipip 0.0.0.0 brd 0.0.0.0
6: sit0@NONE: <NOARP> mtu 1480 qdisc noop state DOWN group default glen 1000
    link/sit 0.0.0.0 brd 0.0.0.0
victor@aula207pc01:~$
```

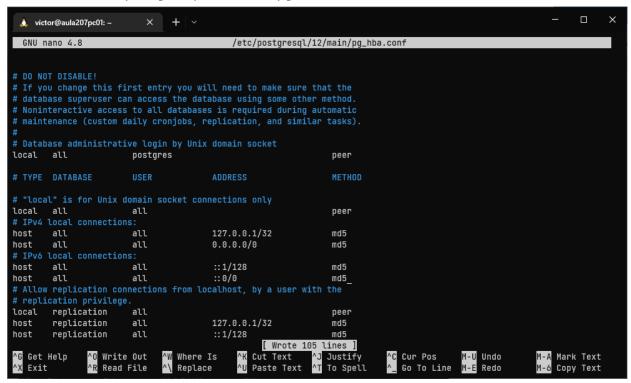
Iniciamos el servidor Postgres en Ubuntu y creamos el usuario odoo (contraseña odoo).

Modificamos los permisos de Postgres para poder conectarse de forma remota.

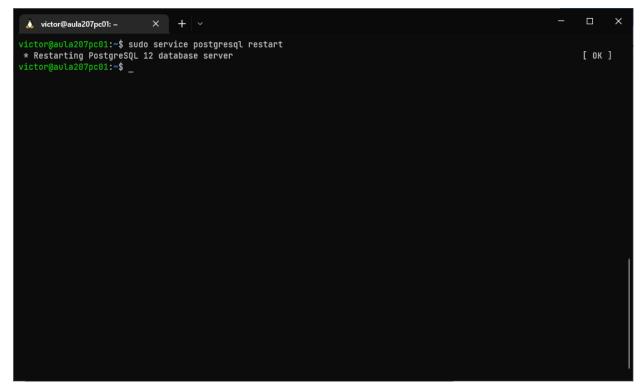
sudo nano /etc/postgresql/12/main/postgresql.conf listen\_addresses = '\*'

```
🙏 victor@aula207pc01: ~
                               + -
 GNU nano 4.8
                                            /etc/postgresql/12/main/postgresql.conf
                                                                                                                    Modified
# If external_pid_file is not explicitly set, no extra PID file is written.
external_pid_file = '/var/run/postgresql/12-main.pid'
                                                                            # write an extra PID file
                                          # (change requires restart)
# CONNECTIONS AND AUTHENTICATION
# - Connection Settings -
listen_addresses = '*'
                                          # what IP address(es) to listen on;
                                          # comma-separated list of addresses;
                                          # defaults to 'localhost'; use '*' for all
port = 5432
                                          # (change requires restart)
max_connections = 100
                                          # (change requires restart)
#superuser_reserved_connections = 3
                                          # (change requires restart)
unix_socket_directories = '/var/run/postgresql' # comma-separated list of directories
                                          # (change requires restart)
#unix_socket_group = ''
                                          # (change requires restart)
#unix_socket_permissions = 0777
                                          # (change requires restart)
                                          # advertise server via Boniour
                                          # (change requires restart)
^G Get Help
^X Exit
                ^O Write Out
^R Read File
                               ^W Where Is
^\ Replace
                                                ^K Cut Text
^U Paste Text
                                                               ^J Justify
^T To Spell
                                                                                ^C Cur Pos
                                                                                               M-U Undo
                                                                                                                M-A Mark Text
                                                                                ^_ Go To Line
                                                                                               M-E Redo
                                                                                                               M-6 Copy Text
```

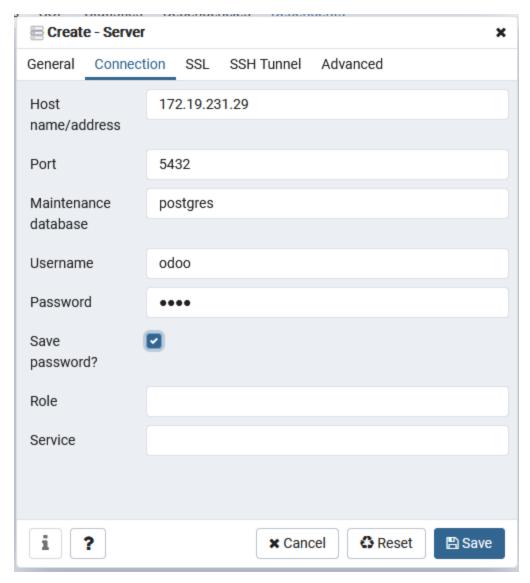
Añadimos la IP 0.0.0.0/0 tanto en IPv4 como en IPv6. sudo nano /etc/postgresql/12/main/pg\_hba.conf



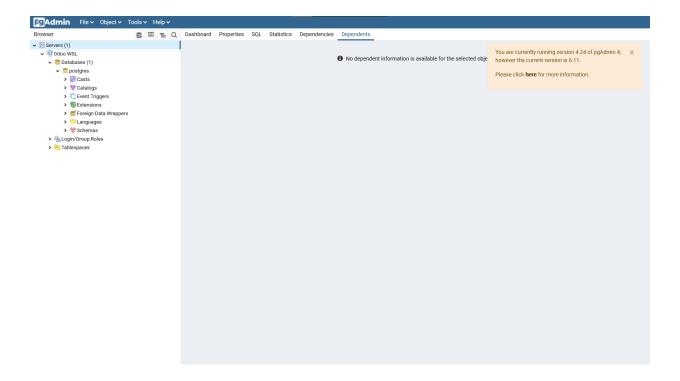
## Reiniciamos el servicio.



Nos conectamos desde PGAdmin.

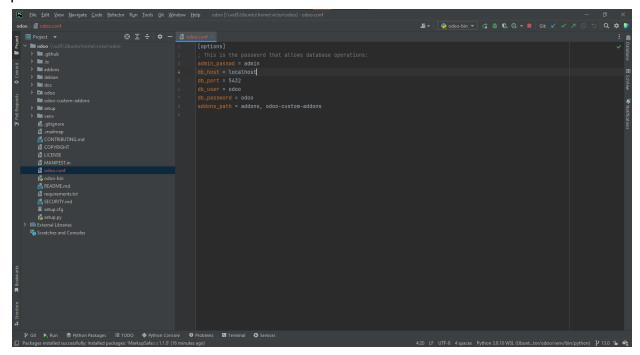


Se conecta correctamente.

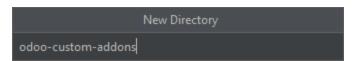


## 5) Configurar la base de datos en el proyecto

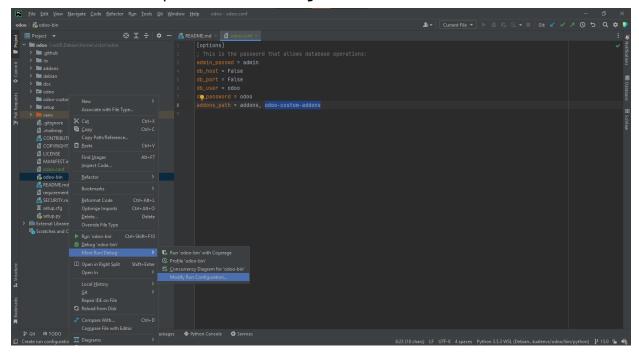
Creamos odoo.conf en el directorio raíz y configuramos los parámetros.



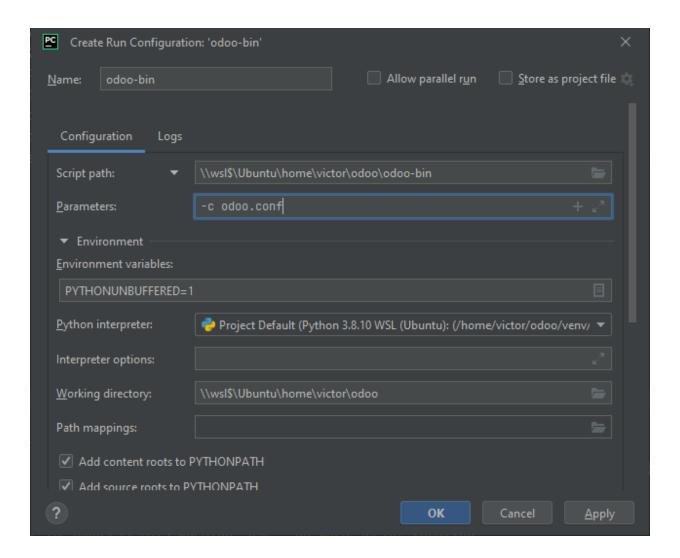
Creamos el directorio para las extensiones personalizadas.



Modificamos los parámetros de ejecución.



Añadimos los parámetros.



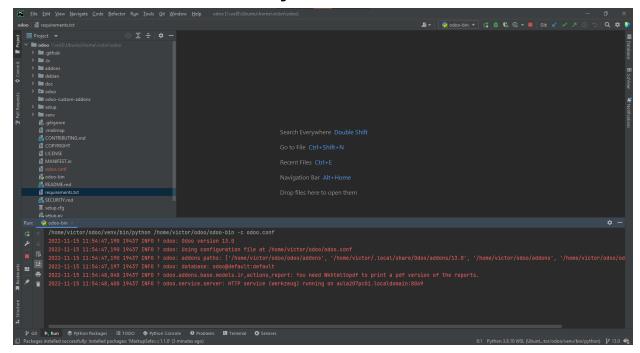
#### 6) Errores

Me da un error porqué me falta una dependencia.

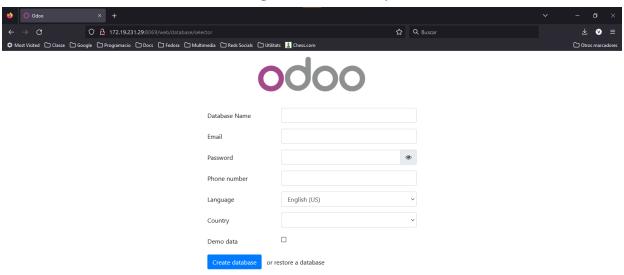
He encontrado la solución aquí.

## 7) Lanzar programa

Damos click en el botón de ejecutar.



Accedemos a través del navegador con IP:puerto.

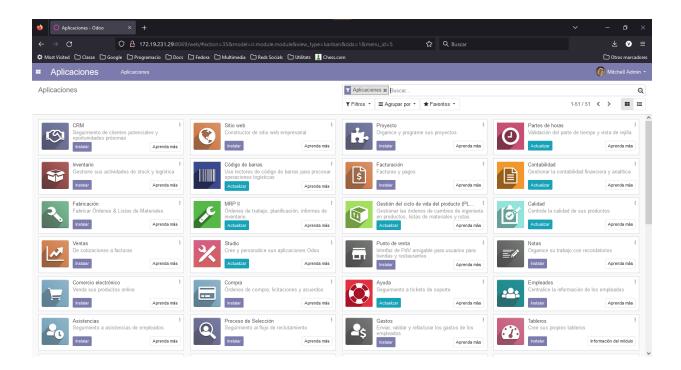


Rellenamos con los datos (contraseña odoo).



Database Name	ode	00	
Email	adı	min@odoo.com	
Password	••	••	•
Phone number	622	2674465	
Language	Sp	anish / Español	~
Country	Sp	ain	~
Demo data	<b>~</b>		
Create database	or restore	a database	

Finalmente estamos en Odoo.



#### 8) Conclusión

De esta forma podemos utilizar el ERP de forma virtualizada, pero sin tener que crear una máquina que utiliza muchos recursos en VirtualBox.

Además podemos utilizar el Pycharm en nuestro PC y se conecta de forma remota.

En mi opinión es una forma más cómoda de trabajar con un entorno virtualizado.