- 1. Install Ubuntu on WSL (Windows Subsystem for Linux ) for Windows 10/11
- To install WSL, you must run PowerShell or Command Prompt (optional, as an administrator). If you are using Windows 10, make sure it's fully updated.
- Run this command in PowerShell and then restart your machine:

wsl --install

```
Administrador: Windows PowerShell

Windows PowerShell
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Prueba la nueva tecnología PowerShell multiplataforma https://aka.ms/pscore6

PS C:\WINDOWS\system32> wsl --install
Descargando: Ubuntu

[========71,2%======]
]
```

- Upgrade version from WSL 1 to WSL 2 (if you are using Windows 10):

wsl --set-default-version 2

```
Administrador: Windows PowerShell

PS C:\WINDOWS\system32> wsl --set-default-version 2
Para obtener información sobre las diferencias clave con WSL 2, visita https://aka.ms/wsl2

La operación se completó correctamente.
PS C:\WINDOWS\system32> ____
```

- To start using WSL, type: wsl.

### 3. Install Anaconda

Now that you are inside WSL, download the latest version of Anaconda for Python 3 from <a href="https://repo.anaconda.com/archive">https://repo.anaconda.com/archive</a>. Start Ubuntu and type:

cd /tmp

curl https://repo.anaconda.com/archive/Anaconda3-2024.10-1-Linux-x86\_64.sh --output anaconda.sh

bash anaconda.sh

```
psus@DESKTOP-41T2C03:/tmp — X

PS C:\WINDOWS\system32> wsl
To run a command as administrator (user "root"), use "sudo <command>".

See "man sudo_root" for details.

jesus@DESKTOP-41T2C03:/mnt/c/WINDOWS/system32$ cd /tmp

tps://repo.anaconda.cjesus@DESKTOP-41T2C03:/tmp$ curl https://repo.anaconda.com/archive/Anaconda3-2024.10-1-L
inux-x86_64.sh --output anaconda.sh
sh % Total % Received % Xferd Average Speed Time Time Current
```

Accept the license terms. When the installation is complete, type yes to initialize Anaconda3.

Add the following line to .bash\_profile, initialize conda and reopen wsl:

```
export PATH=~/anaconda3/bin:$PATH conda init exit wsl
```

```
jesus@DESKTOP-41T2C03: /mnt/c/WINDOWS/system32
                                                                                 jesus@DESKTOP-41T2C03:
                          $ export PATH=~/anaconda3/bin:$PATH
                          $ conda init
jesus@DESKTOP-41T2C03:/
             /home/jesus/anaconda3/condabin/conda
no change
no change
             /home/jesus/anaconda3/bin/conda
             /home/jesus/anaconda3/bin/conda-env
no change
             /home/jesus/anaconda3/bin/activate
no change
no change
             /home/jesus/anaconda3/bin/deactivate
             /home/jesus/anaconda3/etc/profile.d/conda.sh
no change
no change
             /home/jesus/anaconda3/etc/fish/conf.d/conda.fish
             /home/jesus/anaconda3/shell/condabin/Conda.psml
no change
              /home/jesus/anaconda3/shell/condabin/conda-hook.ps1
no change
no change
              /home/jesus/anaconda3/lib/python3.12/site-packages/xontrib/conda.xsh
no change
              /home/jesus/anaconda3/etc/profile.d/conda.csh
modified
              /home/jesus/.bashrc
==> For changes to take effect, close and re-open your current shell. <==
jesus@DESKTOP-41T2C03:/tmp$ exit
logout
PS C:\WINDOWS\system32> wsl
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
(base) iesus@DESKTOP-41T2C03:
```

### 4. Install ISP.

See the detailed instructions in the following link:

https://projectisp.github.io/ISP\_tutorial.github.io/install/#installation

cd ~ git clone --depth 1 --branch master --single-branch https://github.com/ProjectISP/ISP.git

Before running the installer, you should install some compilation tools:

sudo apt-get update sudo apt-get install -y build-essential sudo apt-get install -y pkg-config

These packages provide the basic compilers and utilities required to build Python extensions and other dependencies.

```
Seleccionar jesus@DESKTOP-41T2C03: ~ — X

jesus@DESKTOP-41T2C03: ~ $ git clone --depth 1 --branch master --single-branch https://github.com/Project \( \)

ISP/ISP.git
```

cd ~/ISP git pull --depth 1 cd ~/ISP/install chmod u+x ISP\_installer.sh

```
jesus@DESKTOP-41T2C03: ~/ISP/install
                                                                                                              П
esus@DESKTOP-41T2C03:~/ISP$ cd ~/ISP/install
esus@DESKTOP-41T2C03:~
                                       $ chmod u+x ISP_installer.sh
esus@DESKTOP-41T2C03:~
                                        $ ./ISP_installer.sh
No 'isp' environment found. Proceeding to create one.
Operating System detected: Linux
Linux detected.
Using Conda environment file: ./linux_installer/linux_environment.yml
/home/jesus/anaconda3/lib/python3.12/argparse.py:2006: FutureWarning: `remote_definition` is deprecated and will be removed in 25.9. Use `conda env create --file=URL` instead.
 action(self, namespace, argument_values, option_string)
Channels:
 - conda-forge
 - defaults
```

### Before starting ISP, install the following system packages:

sudo apt-get update sudo apt-get install xdg-utils sudo apt install libqt5x11extras5 sudo apt-get install libpulse-dev

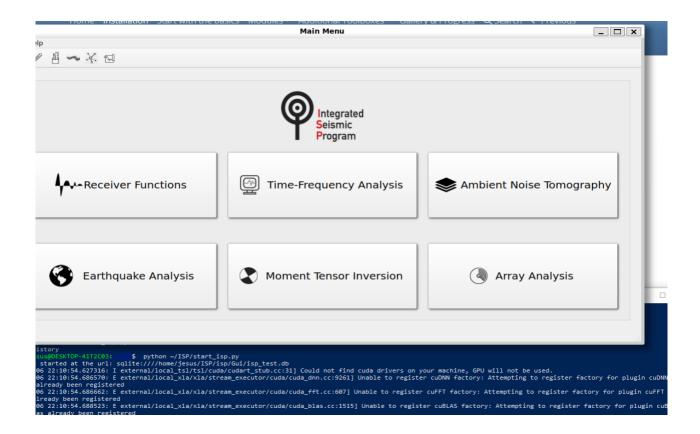
### **Start ISP:**

conda activate isp python ~/ISP/start isp.py

# Modify your shell configuration file (.bashrc) to automatically activate your environment when WSL starts:

echo "conda activate isp" >> ~/.bashrc source ~/.bashrc

From now on, you can use the command isp to start the program whenever you restart WSL.



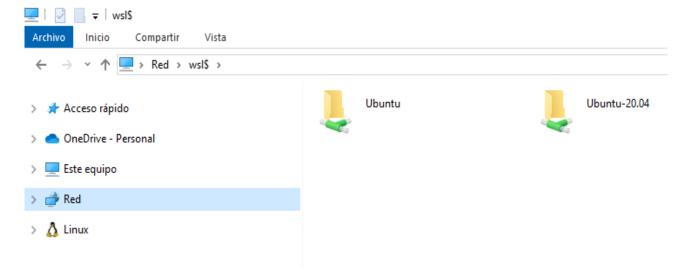
5. Sharing Files Between Windows and WSL

## **Accessing WSL Files from Windows**

a. You can access WSL files directly through the Windows File Explorer by typing the following in the address bar:

### \\wsI\$

You'll see a list of installed Linux distributions. Navigate to the folders you need.



b. Alternatively, you can access the files from the WSL terminal by running the following command:

explorer.exe .

This will open the Windows File Explorer, allowing you to view and work with the files stored in WSL.

## **Accessing Windows Files from WSL**

Windows drives are automatically mounted under /mnt. To access your Windows files from WSL, replace <your\_username> with your actual username and run the following command:

cd /mnt/c/Users/<your\_username>