- 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 https://repo.anaconda.com/archive. 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 install libqt5x11extras5 sudo apt-get install libpulse-dev

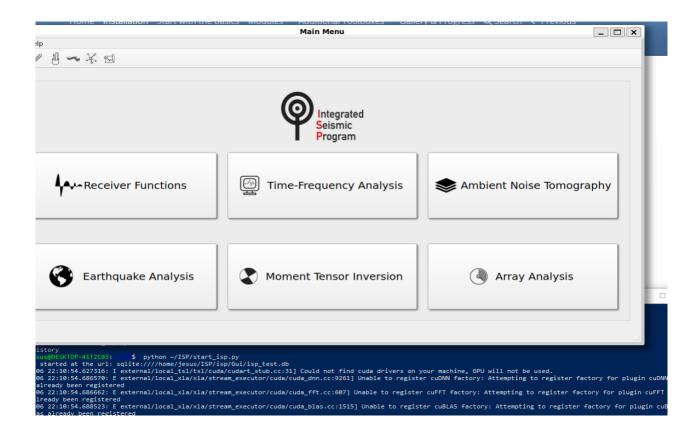
Start ISP:

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.



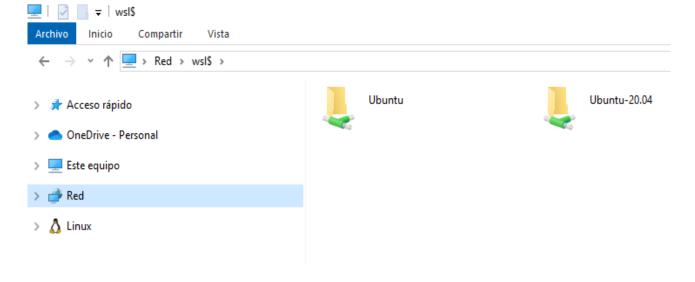
5. Sharing Files Between Windows and WSL

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:

\\wsl\$

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>