

1. Install WSL Windows Subsystem for Linux version 2 and Ubuntu 20.04

- Enter this command in an **administrator** PowerShell or Windows Command Prompt and then restart your machine (only works if WSL is not installed):

```
wsl --install
```

- Upgrade version from WSL 1 to WSL 2:

```
wsl --set-default-version 2
```

- To see a list of available Linux distributions available for download, enter:

```
wsl --list --online
```

- By default, the installed Linux distribution will be Ubuntu. To change the distribution installed, enter (replace <Distribution Name> with the name of the distribution you would like to install):

```
wsl --install -d <Distribution Name>
```

- You can list your installed Linux distributions and check the version :

```
wsl --list -v
```

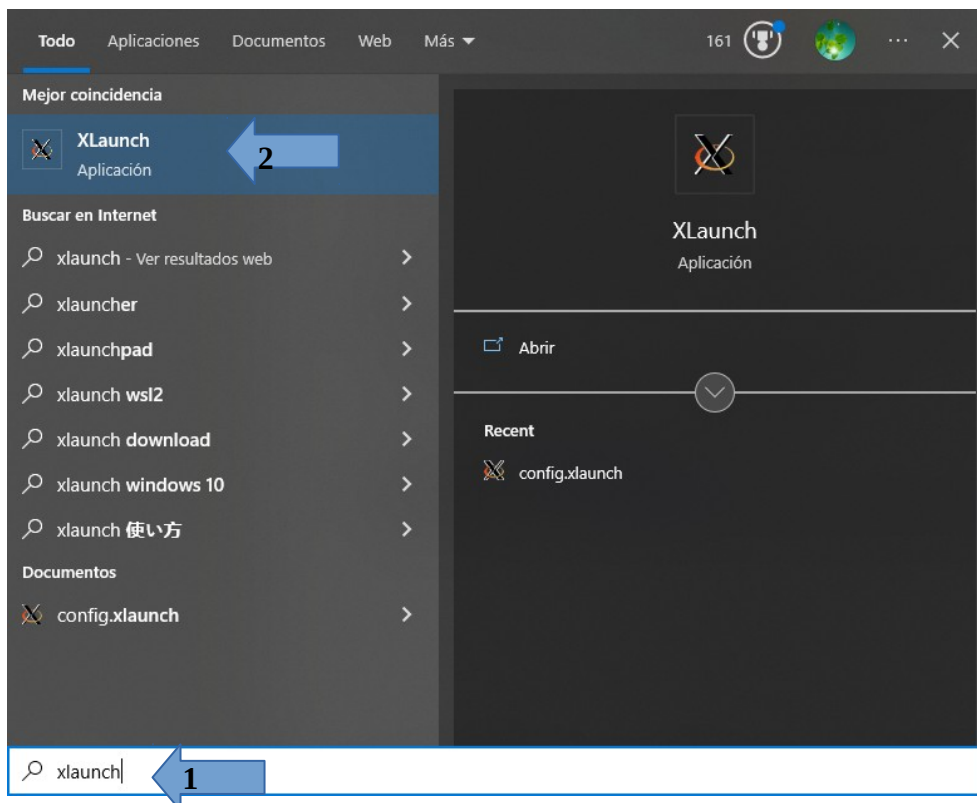
- To set the default Linux distribution used with the wsl command, enter:

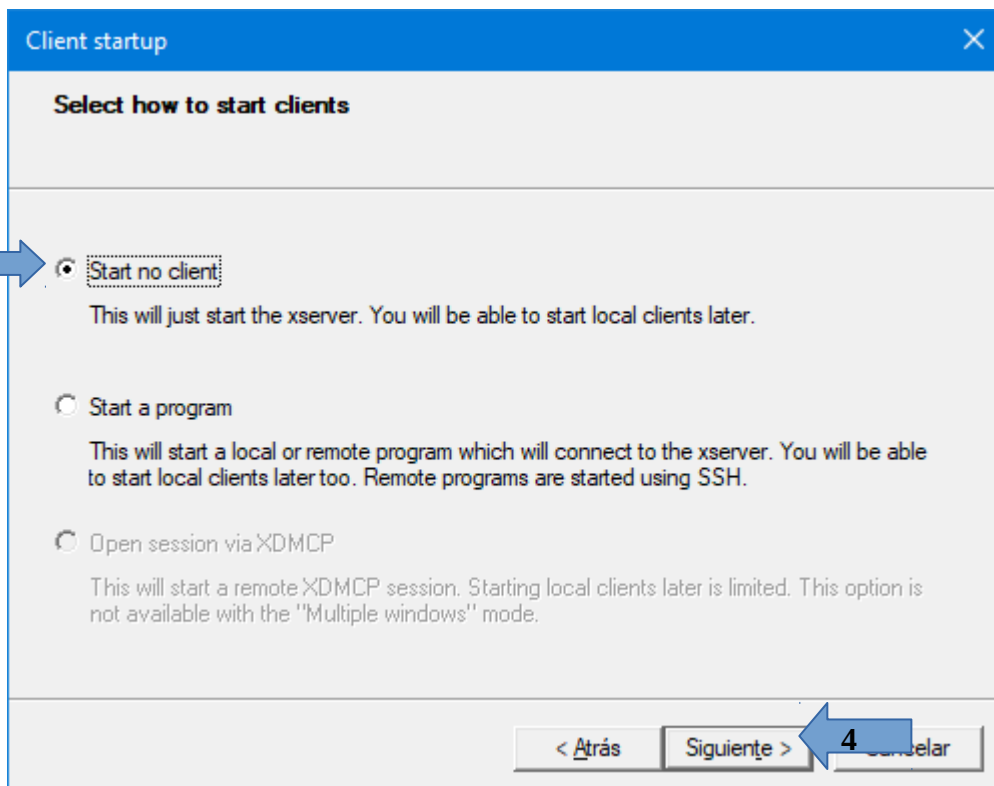
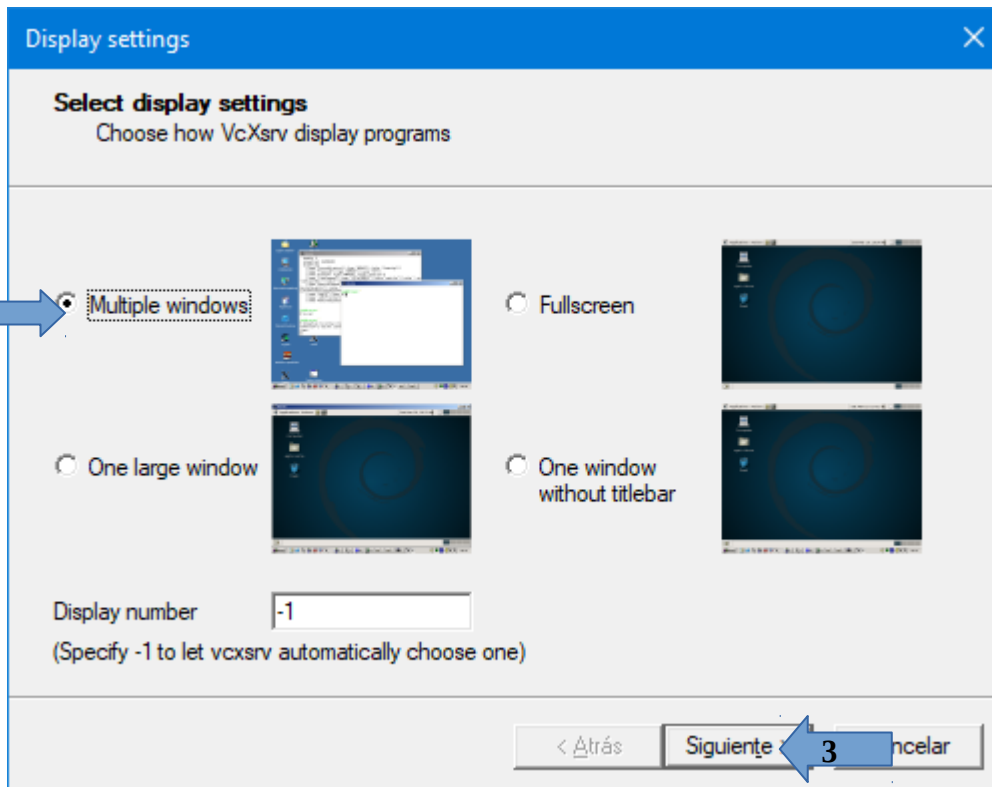
```
wsl --setdefault <DistributionName>
```

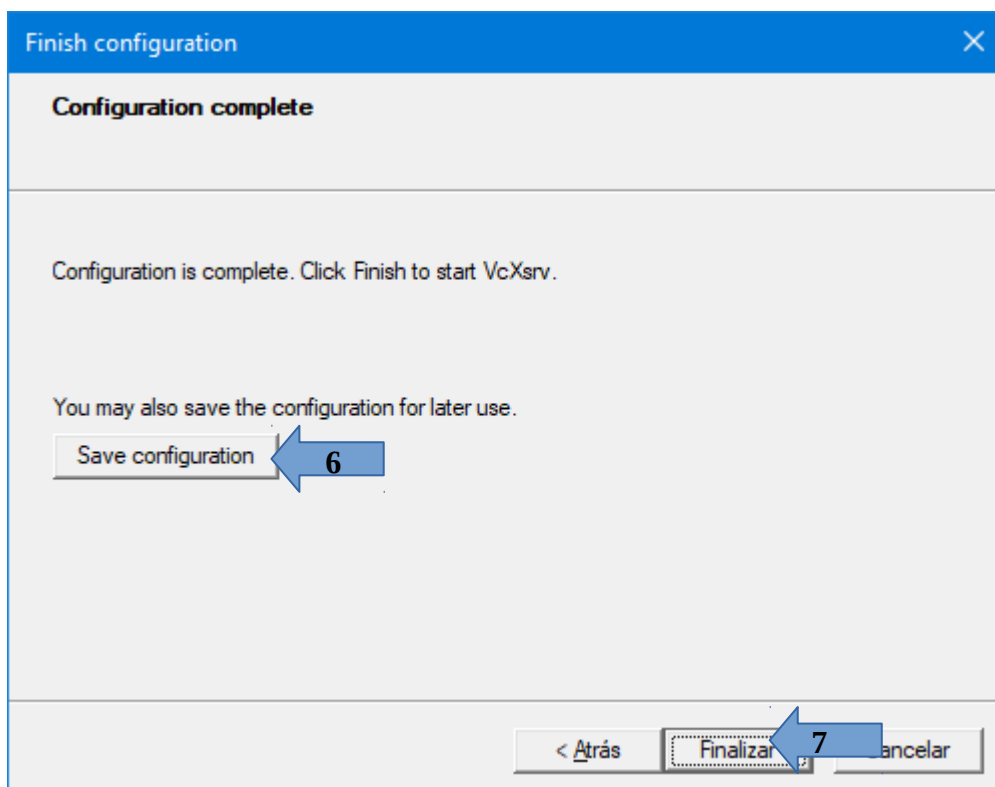
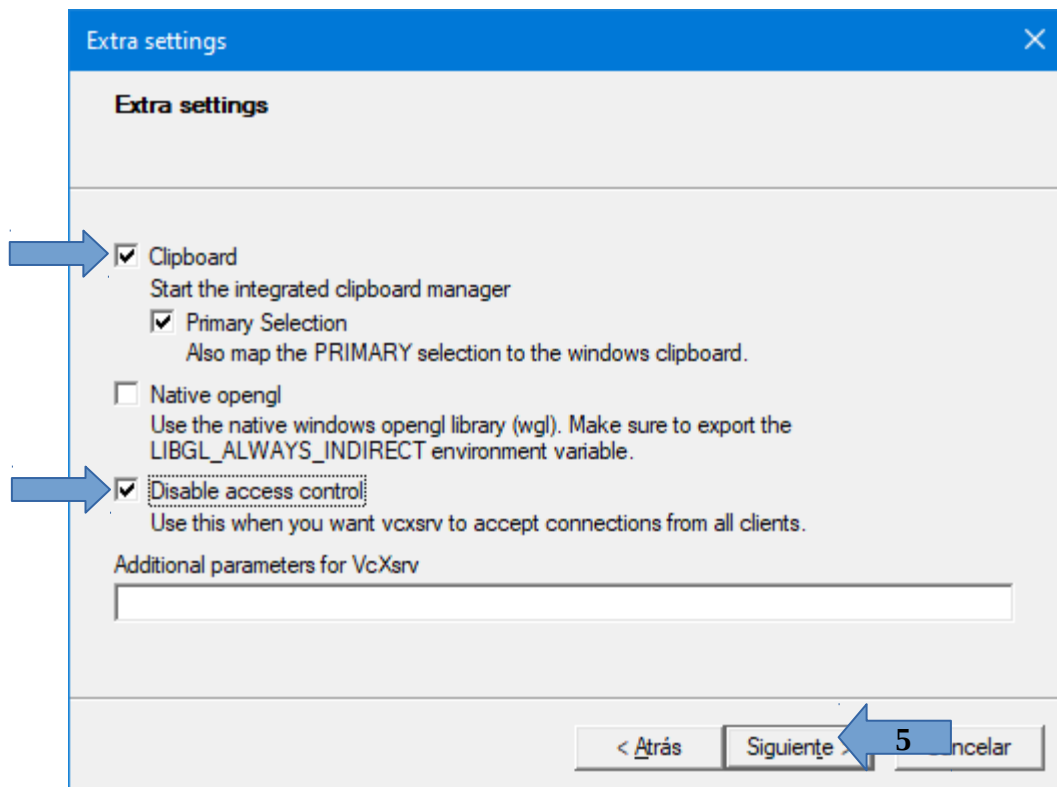
2. Install and start VcXsrv Windows X Server

- Download and install VcXsrv from: <https://sourceforge.net/projects/vcxsrv/files/latest/download>

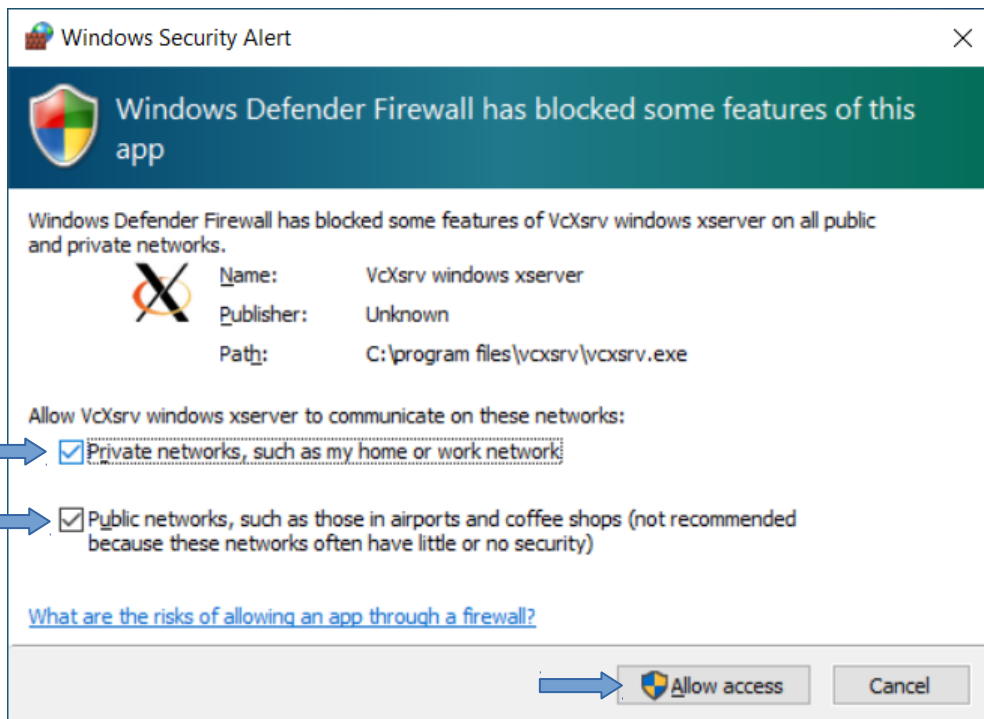
- Start VcXsrv:







- Next time, saved file from step 6 (config.xlaunch) can be used to start VcXsrv.
- Allow VcXsrv in the Windows firewall settings.



Alternatively, you can start VcXsrv from the command line by entering:

```
"%ProgramFiles%\VcXsrv\VcXsrv.exe" :0 -multiwindow -clipboard -wgl -ac
```

3. Setup ~/.bash_profile

- To start using WSL, open up a PowerShell terminal and type: `ws1`

- Add the following lines to the file `~/.bash_profile`

```
export DISPLAY_NUMBER="0.0"
export DISPLAY=$(grep -m 1 nameserver /etc/resolv.conf | awk '{print $2}'):${DISPLAY_NUMBER}
source ~/.bashrc
```

- Finally, type:

```
source ~/.bash_profile
```

4. Install Anaconda

Find the latest version of Anaconda for Python 3 at <https://repo.anaconda.com/archive>. Start Ubuntu and type:

```
cd /tmp
curl https://repo.anaconda.com/archive/Anaconda3-2022.05-Linux-x86_64.sh --output anaconda.sh
bash anaconda.sh
```

Accept the license terms and once installation is complete type yes so that you can initialize Anaconda3.

Add this line to `.bash_profile`:

```
export PATH=~/anaconda3/bin:$PATH
```

5. Install ISP.

Instructions detailed in this link:

https://projectisp.github.io/ISP_tutorial.github.io/install/#installation

```
cd ~
git clone https://github.com/ProjectISP/ISP.git
cd ~/ISP
git checkout ISP_2.0_development
git pull
cd ~/ISP/install
chmod u+x ISP_installer.sh
./ISP_installer.sh
```

```
conda activate isp
```

```
python ~/ISP/start_isp.py
```

