\* CMD or Powershell **관리자 권한** 실행 dism.exe /online /enable-feature /featurename:Microsoft-Windows-Subsystem-Linux /all /norestart dism.exe /online /enable-feature /featurename:VirtualMachinePlatform /all /norestart

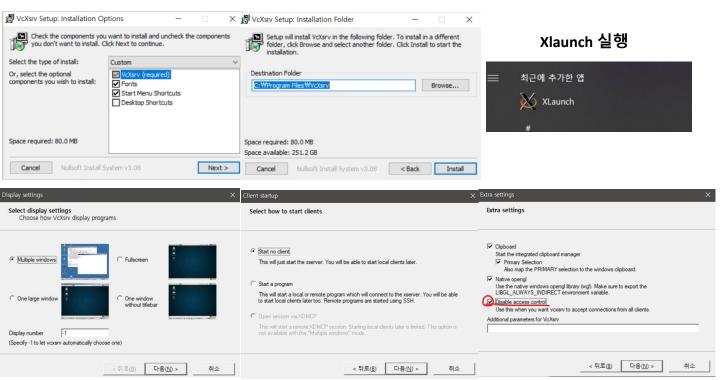
### 다운로드 후 설치

https://wslstorestorage.blob.core.windows.net/wslblob/wsl\_update\_x64.msi

### 다운로드 후 설치

https://sourceforge.net/projects/vcxsrv/

wsl --set-default-version 2



### Microsoft store ubutntu 20.04(WSL) 설치

https://apps.microsoft.com/detail/9mttcl66cpxj?hl=en-us&gl=US

# In Ubuntu 20.04

git clone -n --depth=1 --filter=tree:0 https://github.com/seonghoonko/plotjuggler.git && cd ~/plotjuggler && git sparse-checkout set --no-cone installer && git checkout && cd ~/plotjuggler/installer && chmod +x installer.sh; ./installer.sh

실행 op\_plot

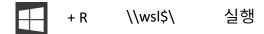
# **Appendix**

### 1 Install plot.sh 내용

```
#!/usr/bin/bash
 cd ~;
 sudo apt update;
 upgrade;
 sudo apt install x11-apps -y;
 sudo apt install python3-pip;
 curl https://bootstrap.pypa.io/get\-pip.py \-o get\-pip.py;
 python3 get-pip.py; pip3 install pip --upgrade;
 sudo pip install --ignore-installed poetry;
 sudo apt install python3-testresources;
 poetry init -n; pip3 install numpy;
 sudo apt install scons;
 pip3 install scons;
 curl -s https://packagecloud.io/install/repositories/github/git-lfs/script.deb.sh | sudo bash ;
 sudo apt-get update;
 sudo apt install git-lfs;
 cd ~;
 git clone --recurse-submodules https://github.com/commaai/openpilot.git;
 cd ~/openpilot; git Ifs pull;
 export PYTHONPATH="/home/$USER/openpilot/.venv/bin/python3:/home/$USER
 /openpilot";
 export DISPLAY="`grep nameserver /etc/resolv.conf | sed 's/nameserver //'`:0";
 export LIBGL ALWAYS INDIRECT=1;
 export DISPLAY=$WSL_IF_IP:0;
 unset LIBGL ALWAYS INDIRECT;
 cd ~/openpilot&&tools/ubuntu_setup.sh;
 cd ~/openpilot&&poetry shell;
 #add .bashrc for qt (network connection)
 cd ~;
 sed '98 i\
 #Custom alias
 alias op plot='cd ~/openpilot/tools/plotjuggler&&./juggle.py --stream'' .bashrc;
 sed \frac{s}{n}
 export PYTHONPATH="/home/$USER/openpilot/.venv/bin/python3:/home/$USER
 /openpilot"
 export DISPLAY="'grep nameserver /etc/resolv.conf | sed 's/nameserver //':0"
 export LIBGL ALWAYS INDIRECT=1
 export DISPLAY=$WSL IF IP:0
 unset LIBGL_ALWAYS_INDIRECT
 /g' .bashrc;
2_Install_plot.sh 내용
  #!/usr/bin/bash
  # build openpilot & install plotjuggler
```

```
cd ~/openpilot && scons -u -j$(nproc);
cd ~/openpilot/tools/plotjuggler;
./juggle.py --install
```

### \*우분투 설치 위치



### \*WSL 설치 안될때 CMD 나 Powershell 로 설치

wsl --unregister ubuntu wsl -unregister ubuntu-20.04 wsl --install -d Ubuntu-20.04

# **Appendix**

# **우분투 사용자 이름** 및 비밀번호 설정 후 sudo nano ~/.bashrc

```
# some more Is aliases
alias II='ls -aIF'
alias la='ls -A'
alias I='ls -CF'

# Add an "alert" alias for long running commands. Use like so:
# sleep 10; alert
alias alert='notify-send --urgency=low -i "$([ $? = 0 ] && echo terminal || echo error)" "$(history|tail -n1|sed -e '\")

# Alias definitions.
# You may want to put all your additions into a separate file like
# ~/.bash_aliases, instead of adding them here directly.
# See /usr/share/doc/bash-doc/examples in the bash-doc package.
```

빨간줄 친 부분에 아래 내용을 추가

#Custom alias alias op\_pl='cd ~/openpilot/tools/plotjuggler&&./juggle.py --stream'

맨 끝줄에.

export PYTHONPATH="/home/\$USER/openpilot/.venv/bin/python3:/home/\$USER /openpilot" export DISPLAY="`grep nameserver /etc/resolv.conf | sed 's/nameserver //'`:0" export LIBGL\_ALWAYS\_INDIRECT=1 export DISPLAY=\$WSL\_IF\_IP:0 unset LIBGL\_ALWAYS\_INDIRECT cd ~/openpilot&&poetry shell;

내용 추가 후

Ctrl + X & Y & Enter