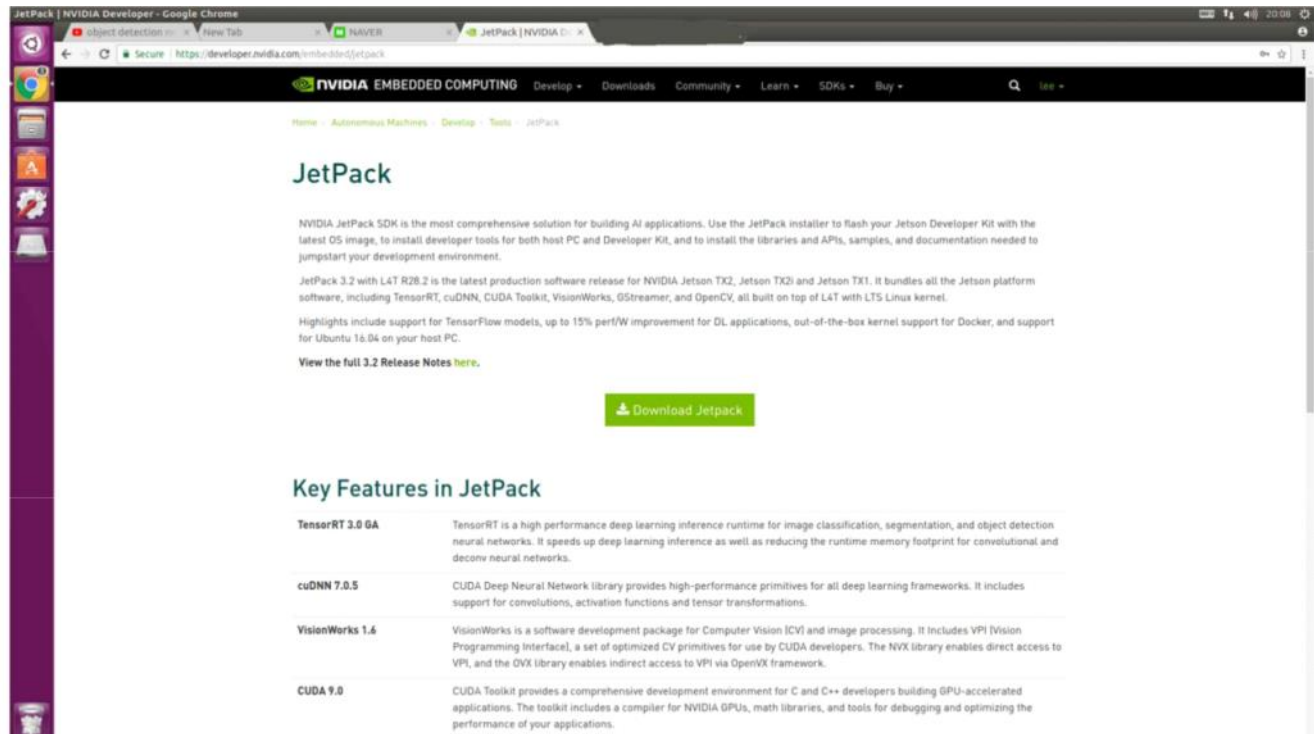


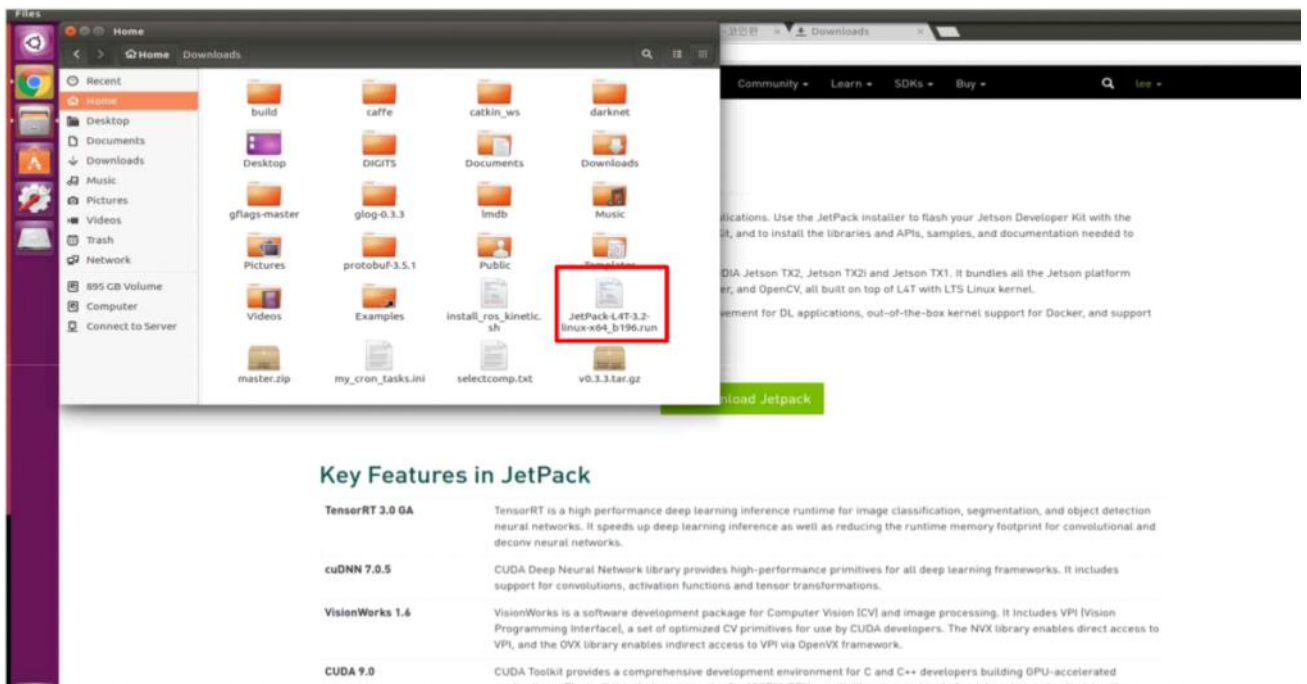
Jetpack 설치

Wednesday, August 15, 2018 9:18 AM

- 설치용 노트북 환경 : 우분투 16.04
- 사이트 가입 및 최종버전 다운받는다
 - <https://developer.nvidia.com/embedded/jetpack>

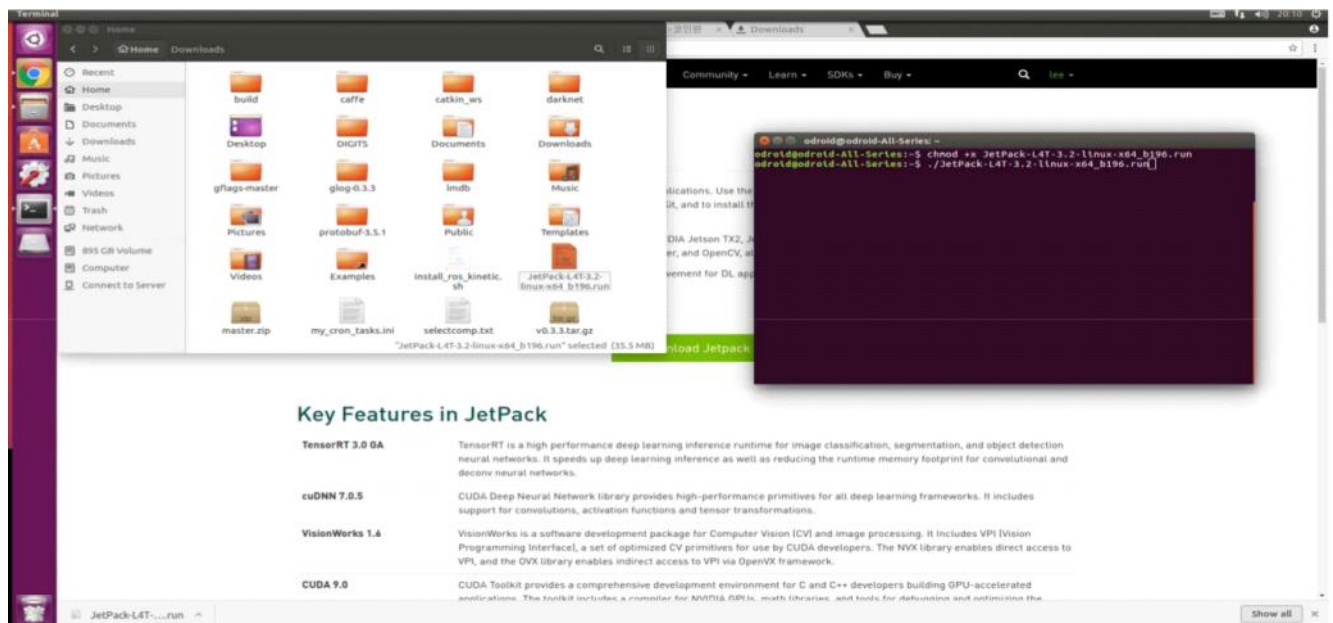


- \$CD 다운받은폴더

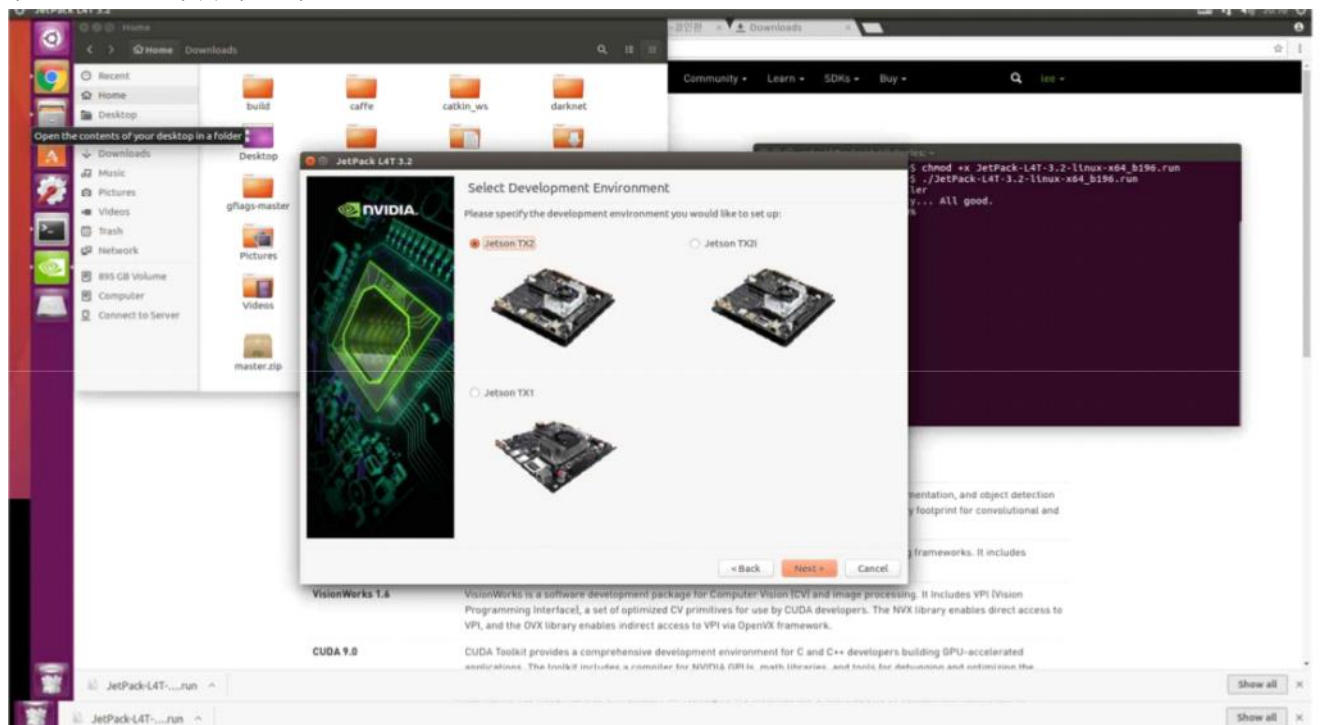


- \$chmod +x JetPack이름.run ==> 실행권한 부여

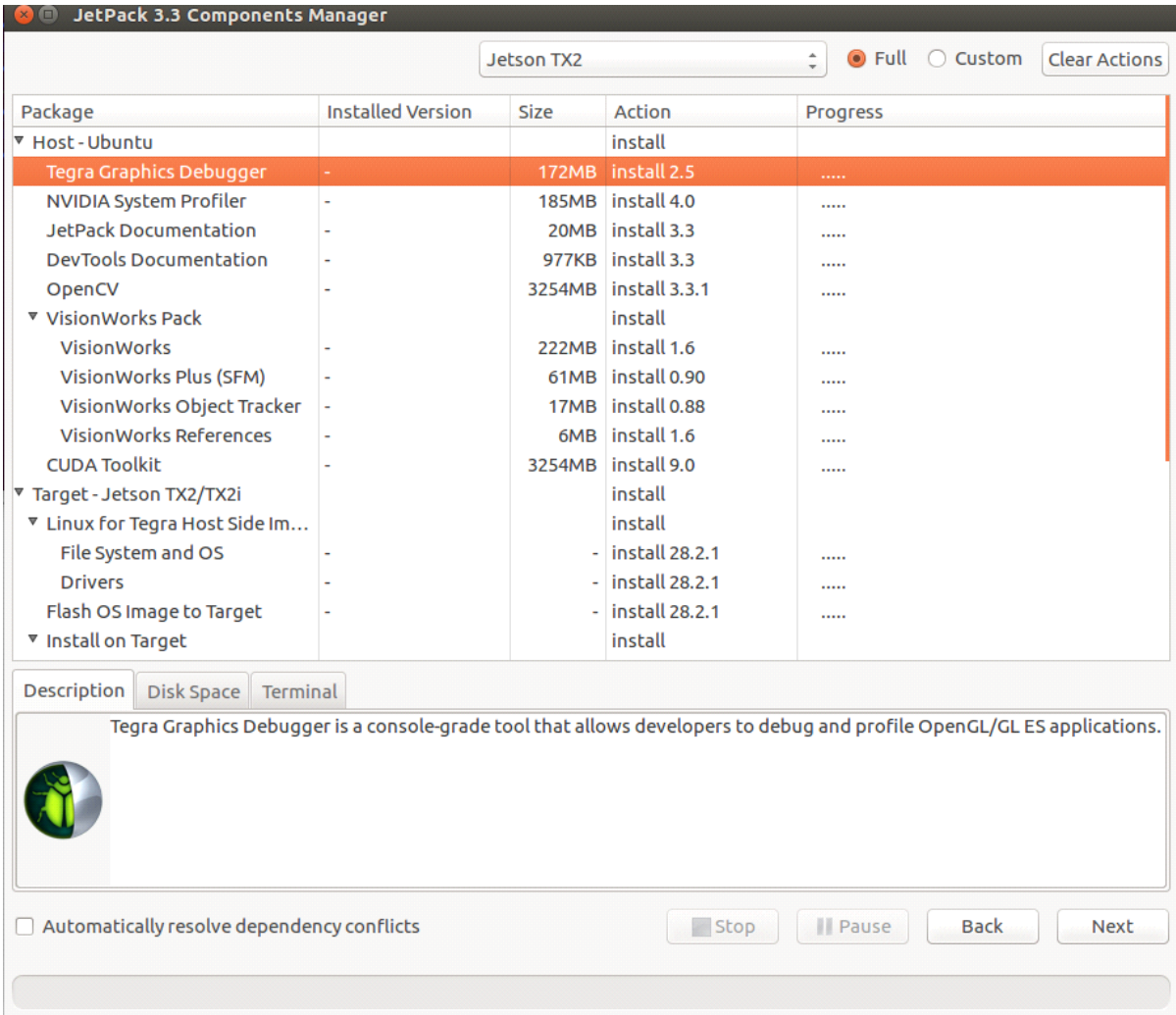
- `./JetPack이름.run ==> 실행`

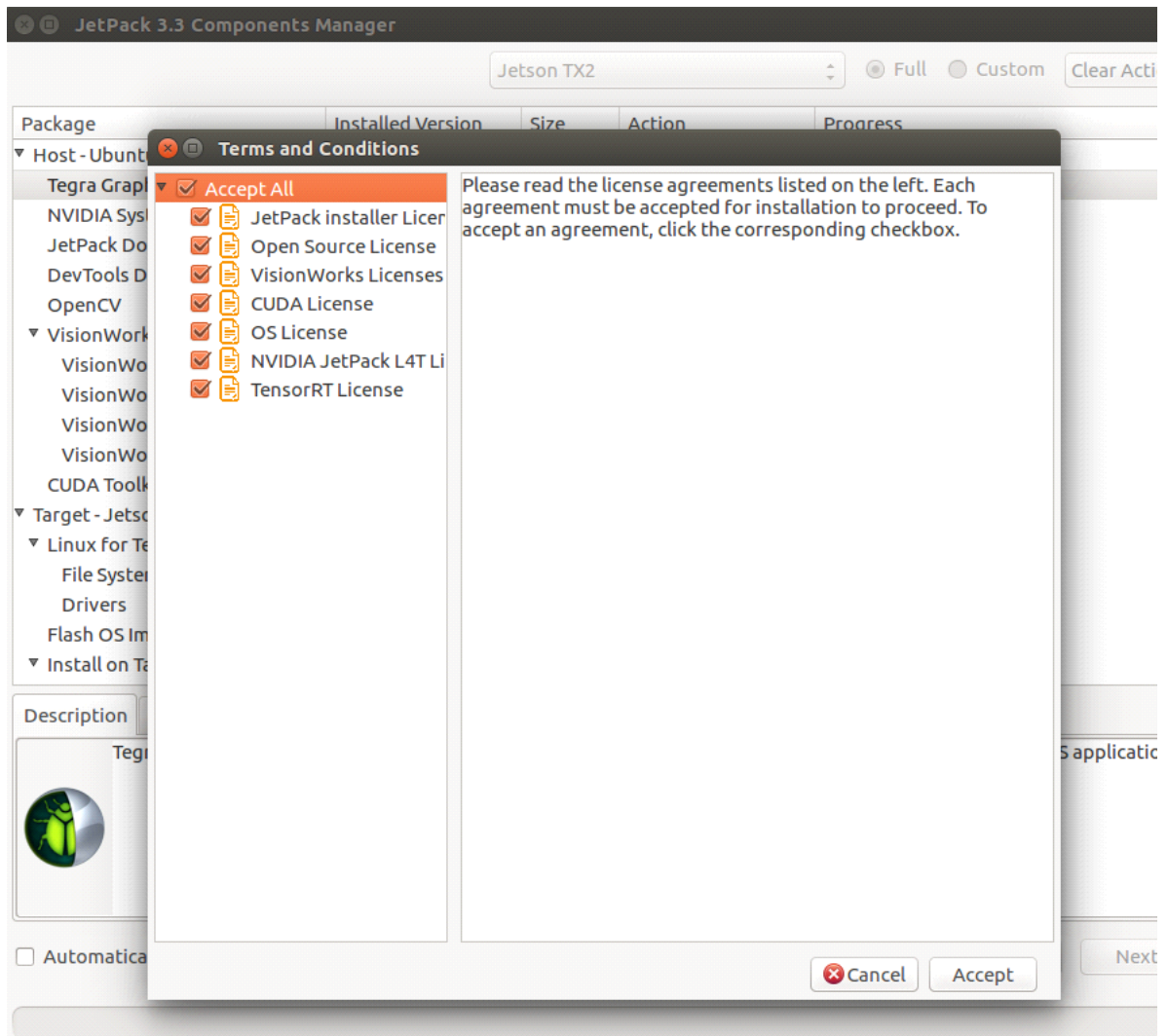


- 자신의 Jetson 보드에 맞게 선택



- 진행중 화면





JetPack 3.3 Components Manager

Jetson TX2

☒ Full
 ☐ Custom
 Clear Actions

Package	Installed Version	Size	Action	Progress
▼ Host - Ubuntu			install	
Tegra Graphics Debugger	-	172MB	install 2.5	Pending install
NVIDIA System Profiler	-	185MB	install 4.0	Pending install
JetPack Documentation	-	20MB	install 3.3	Pending install
DevTools Documentation	-	977KB	install 3.3	Pending install
OpenCV	-	3254MB	install 3.3.1	Pending install
▼ VisionWorks Pack			install	
VisionWorks	-	222MB	install 1.6	Pending install
VisionWorks Plus (SFM)	-	61MB	install 0.90	Pending install
VisionWorks Object Tracker	-	17MB	install 0.88	Pending install
VisionWorks References				Pending install
CUDA Toolkit				Pending install
▼ Target - Jetson TX2/TX2i				
▼ Linux for Tegra Host Side Im...				
File System and OS				Pending install
Drivers				Pending install
Flash OS Image to Target				Pending install
▼ Install on Target				

Important Note

Depending on the component selection, please pay attention to the prompt in embedded terminal:

- * Additional user input may be required.
- * Follow on-screen instructions to continue.

OK

Description

Disk Space

Terminal

Tegra Graphics Debugger is a console-grade tool that allows developers to debug and profile OpenGL/GL ES applications.

☐ Automatically resolve dependency conflicts

Stop

Pause

Back

Next

Waiting for validation... it will take a few minutes

JetPack 3.3 Components Manager

Target: Jetson TX2 | Mode: Full | Clear Actions

Package	Installed Version	Size	Action	Progress
Host - Ubuntu			install	
Tegra Graphics Debugger	-	172MB	install 2.5	Installing
NVIDIA System Profiler	-	185MB	install 4.0	Pending install
JetPack Documentation	-	20MB	install 3.3	Pending install
DevTools Documentation	-	977KB	install 3.3	Pending install
OpenCV	-	3254MB	install 3.3.1	Pending install
VisionWorks Pack			install	
VisionWorks	-	222MB	install 1.6	Pending install
VisionWorks Plus (SFM)	-	61MB	install 0.90	Pending install
VisionWorks Object Tracker	-	17MB	install 0.88	Pending install
VisionWorks References	-	6MB	install 1.6	Pending install
CUDA Toolkit	-	3254MB	install 9.0	Pending install
Target - Jetson TX2/TX2i			install	
Linux for Tegra Host Side Im...			install	
File System and OS	-		install 28.2.1	Pending install
Drivers	-		install 28.2.1	Pending install
Flash OS Image to Target	-		install 28.2.1	Pending install
Install on Target			install	

Description | Disk Space | Terminal

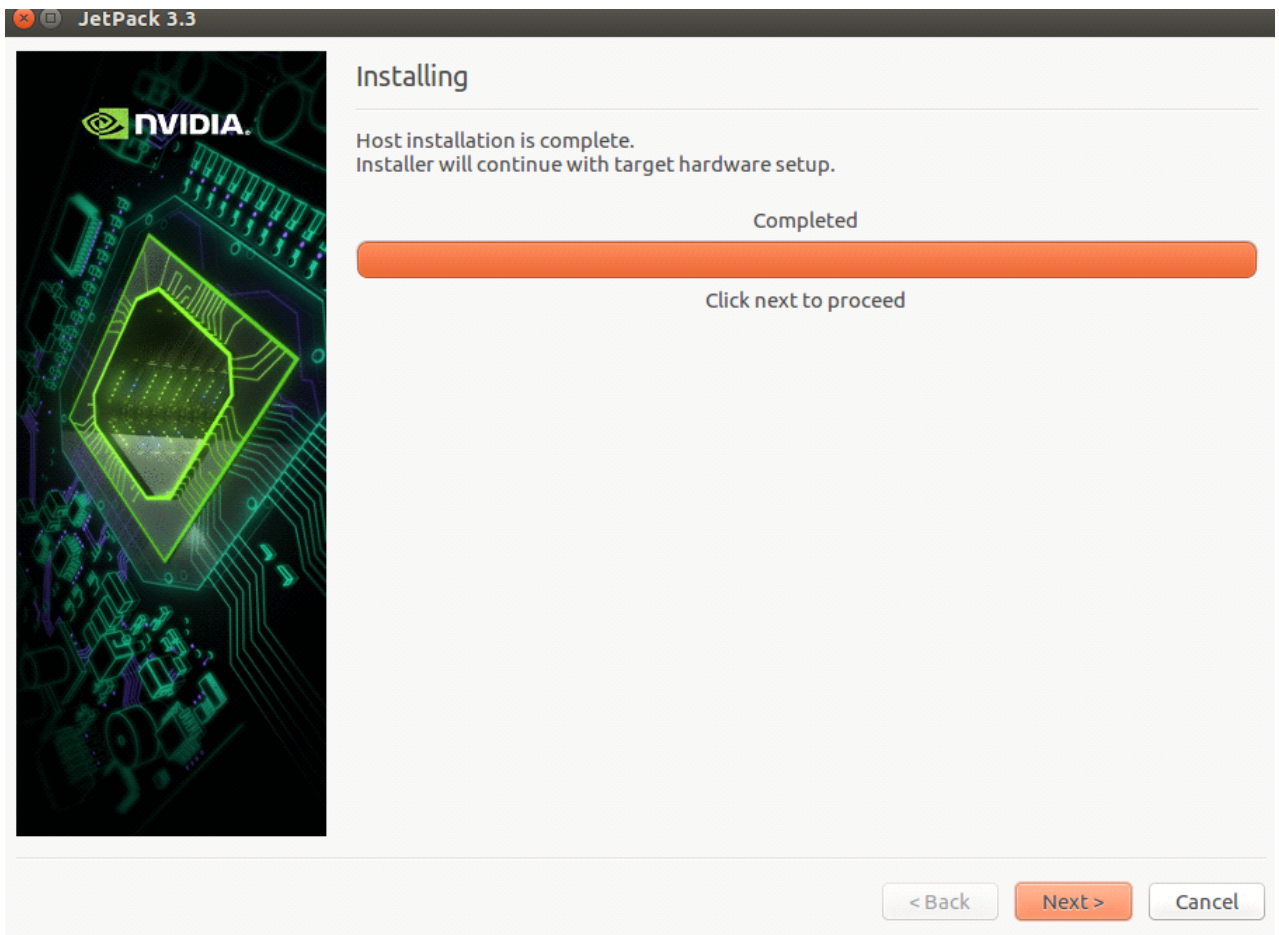
```

root      4414   0.0   0.0 266772 2836 ?        Ssl  18:20   0:00 /home/david/jetpack/_installer/sudo_daemon -installer=4242 -d=/home/david/jetpack/_installer/tmp
0
/home/david/jetpack//_installer/run_command -c="/home/david/jetpack/jetpack_download/2017_11_28_1956-23204764-NVIDIA_Tegra_Graphics_Debugger_2.5.17332.1956_Release_External_tgd-l4t_linux-l4t.run --noxl1 --noprompt" -d=/home/david/jetpac
k//_installer/tmp -l=/home/david/jetpack/_installer/logs/install_tegra_graphics_debugger.log
Verifying archive integrity... All good.
Uncompressing NVIDIA Tegra Graphics Debugger 100%
    
```

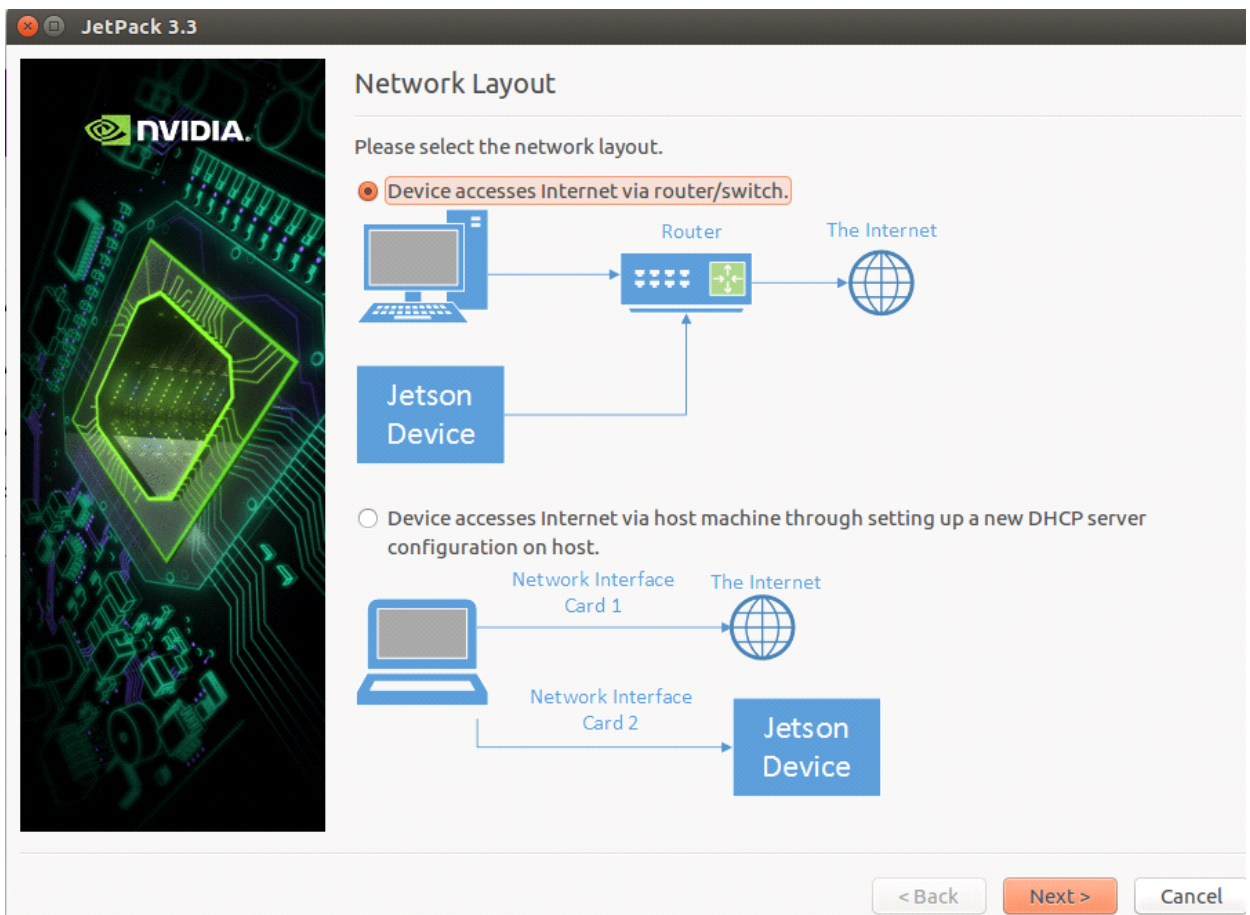
Export Log...

☐ Automatically resolve dependency conflicts
Stop
Pause
Back
Next

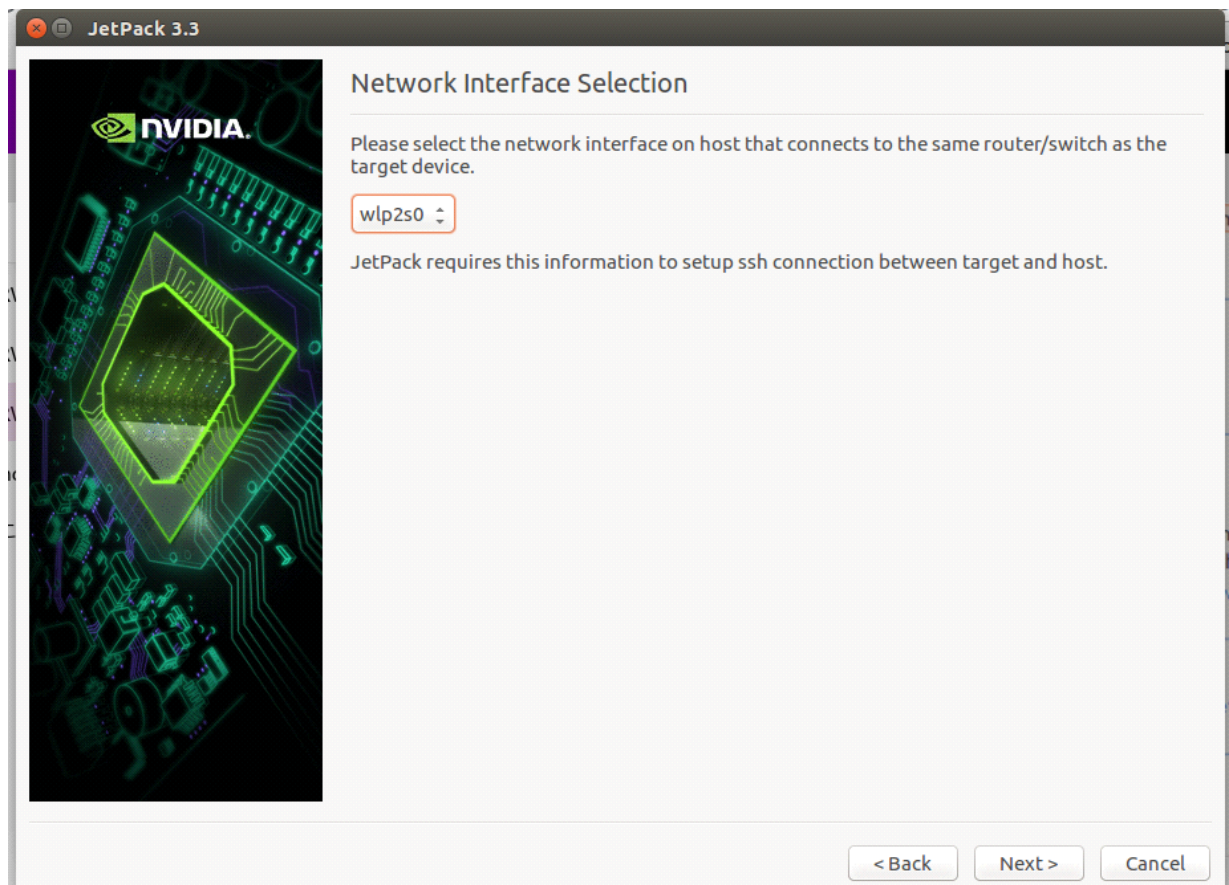
(0/22) Installing Tegra Graphics Debugger



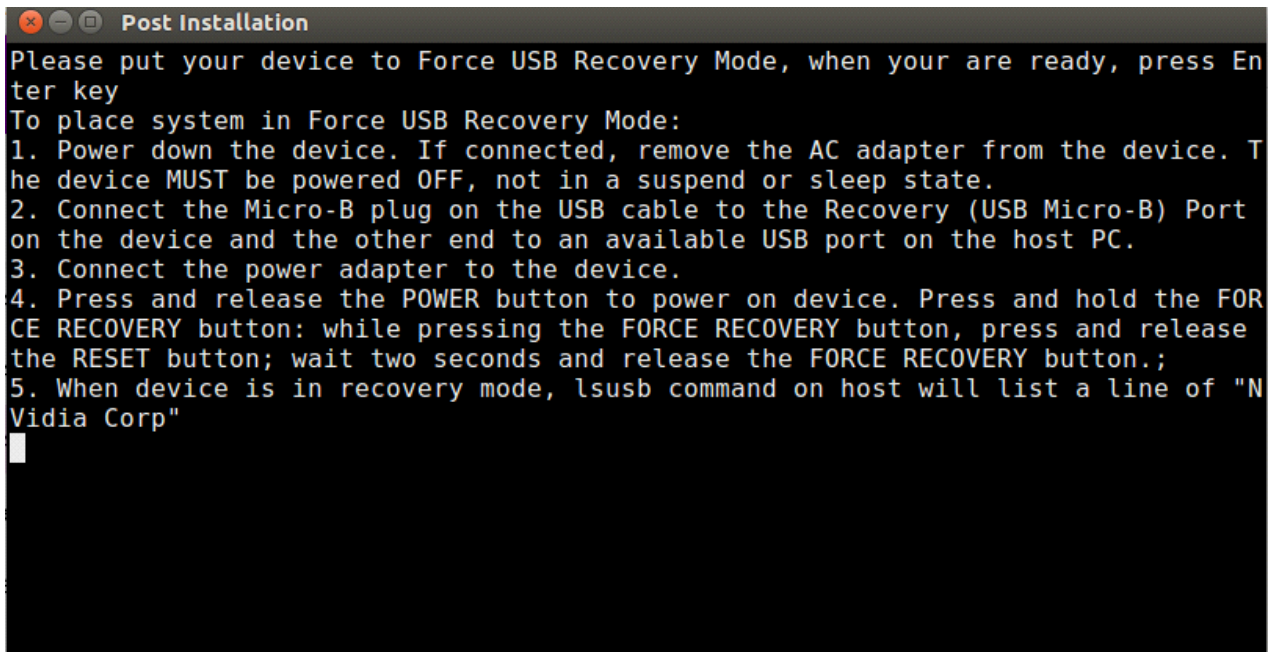
- 네트워크 레이아웃 선택



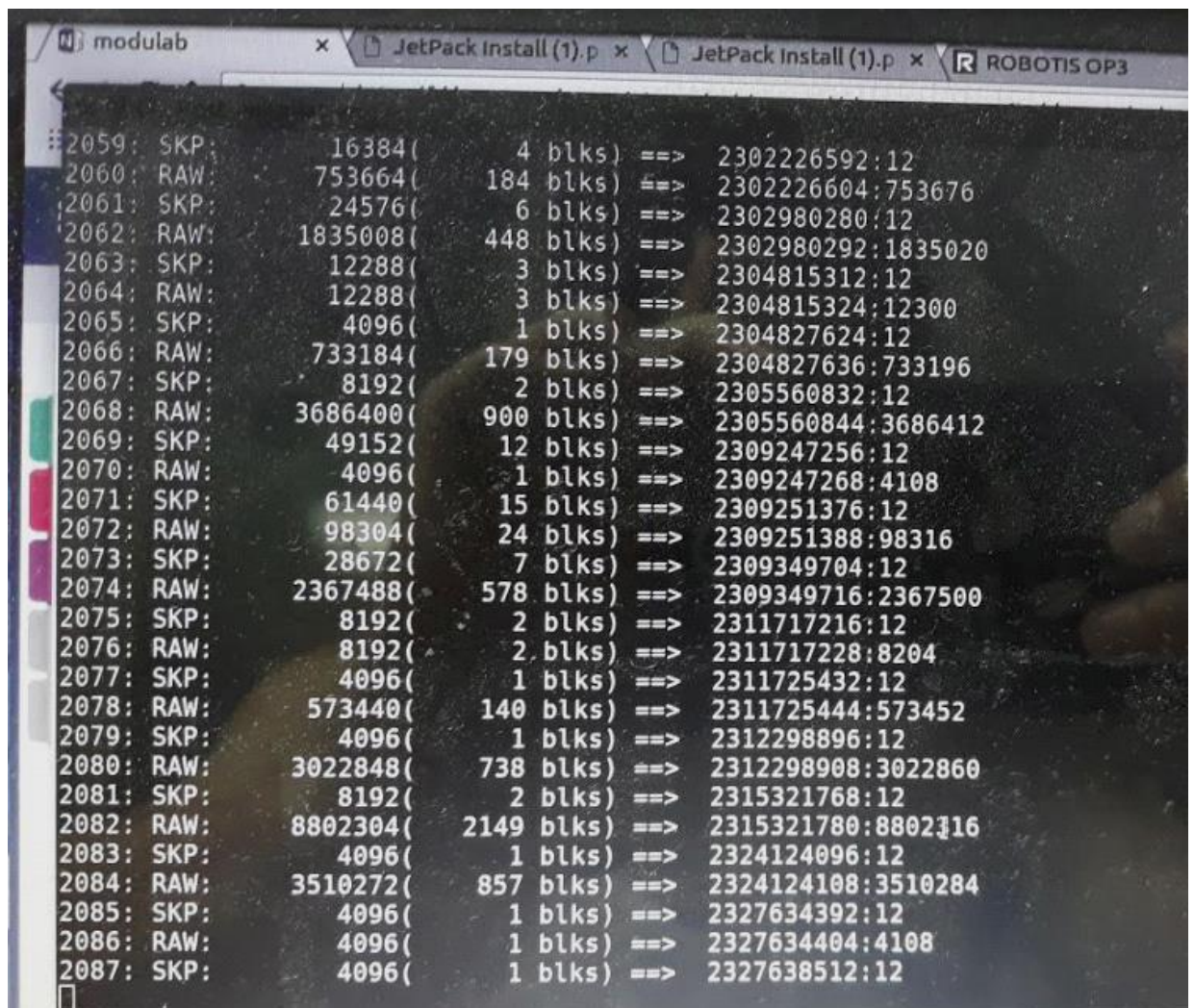
- 노트북의 인터넷 연결을 선택한다. 무선으로 선택함 (wire less ==> wlp2s0)



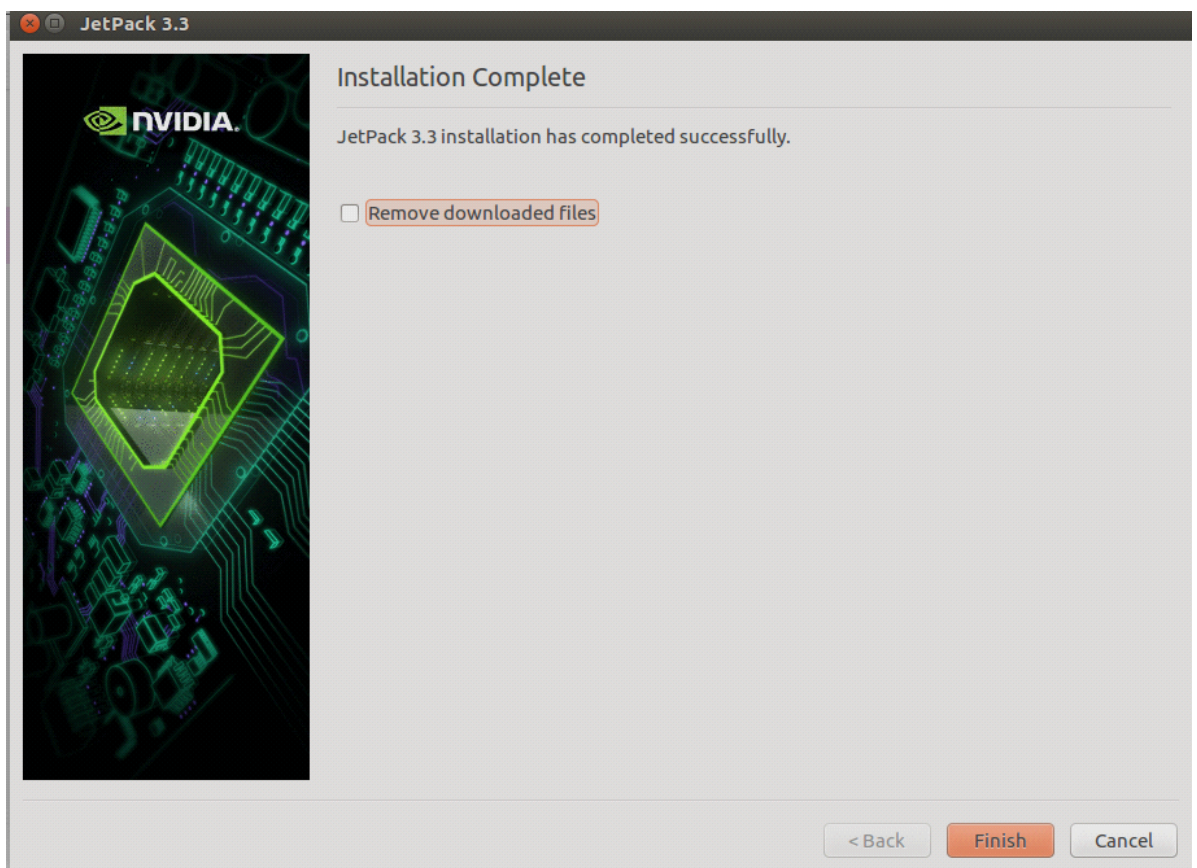
- 하드웨어 준비하기
 1. jetson 의 전원이 꺼져있는 상태로 만든다.
 2. Jetson을 Micro -B Type을 Host Pc와 연결
Host Pc와 같은 Router를 쓰는 유선 랜을 Jetson에도 연결
 3. jetson에 전원을 연결한다
 4. jetson의 power on 한다
REC 버튼을 누르면서 RST버튼을 2초간 눌렀다가 땀
 5. Host Pc로와서 Enter를 눌러준다



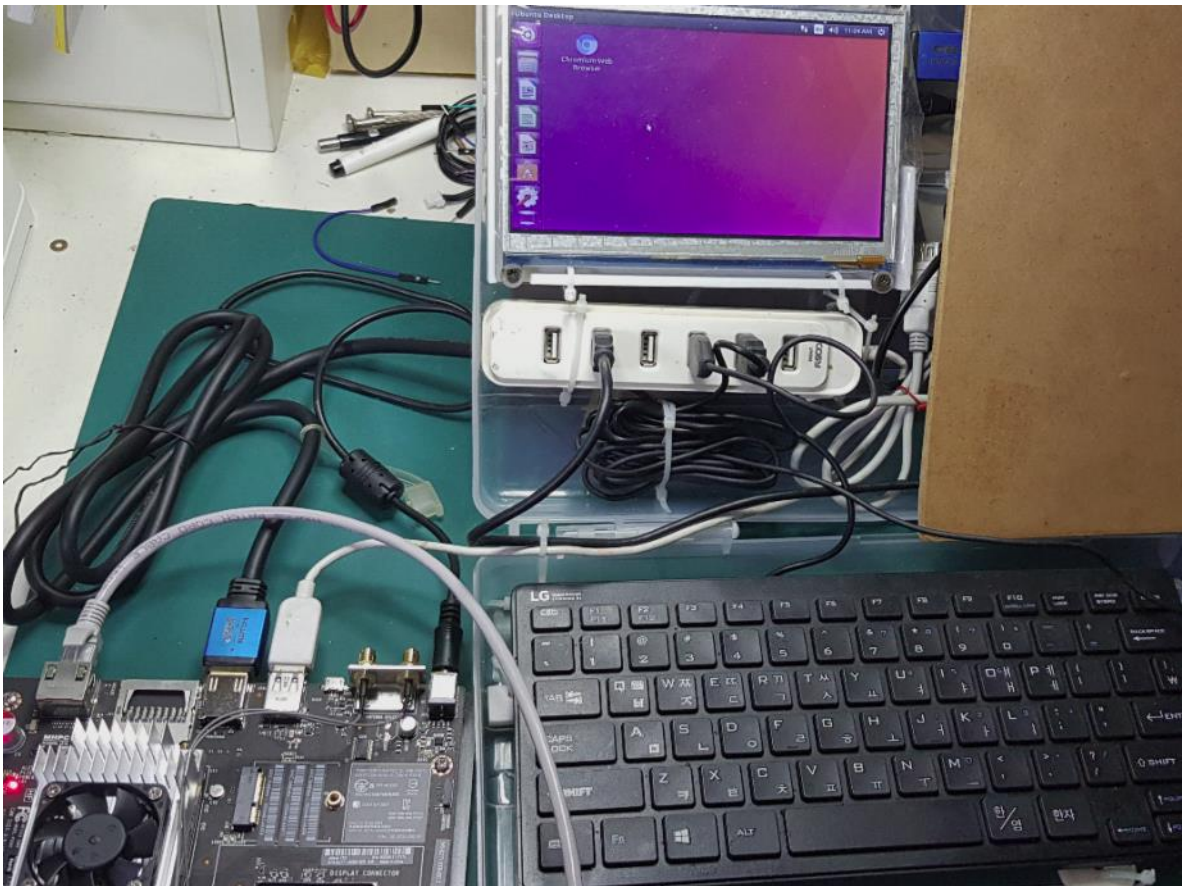
- Host pc 에서 enter 후에 약 2분정도 화면이 멈춰있다가, 이후 아래 화면이 나오면서 진행이 됨.



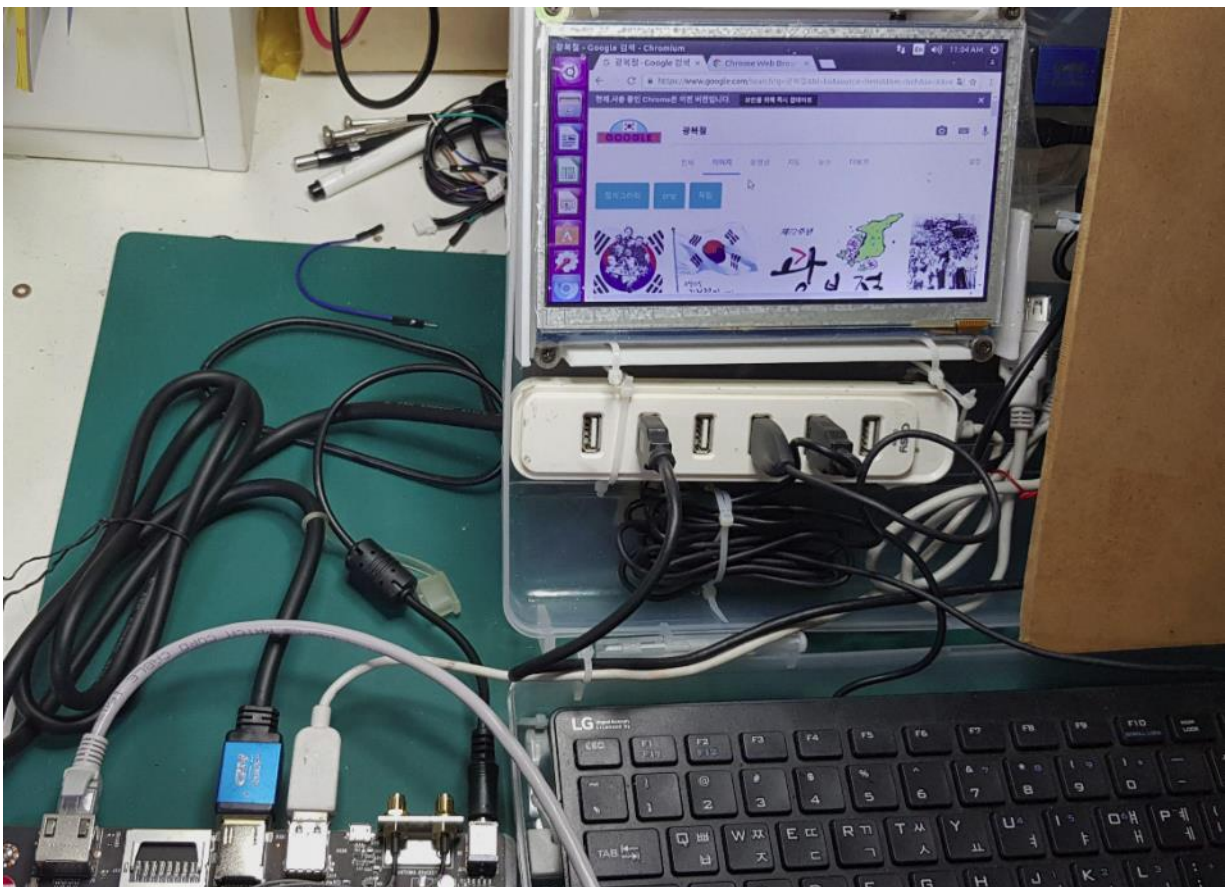
```
Installing MMAPi on target
Compiling: main.cpp
Linking: multi_camera
make[1]: Leaving directory '/home/nvidia/tegra_multimedia_api/samples/13_multi_camera'
Make in samples/backend
make[1]: Entering directory '/home/nvidia/tegra_multimedia_api/samples/backend'
Compiling: v4l2_backend_csyparser.cpp
Compiling: v4l2_backend_main.cpp
Linking: backend
make[1]: Leaving directory '/home/nvidia/tegra_multimedia_api/samples/backend'
Make in samples/frontend
make[1]: Entering directory '/home/nvidia/tegra_multimedia_api/samples/frontend'
Compiling: main.cpp
Compiling: StreamConsumer.cpp
Compiling: VideoEncodeStreamConsumer.cpp
Compiling: VideoEncoder.cpp
Compiling: TRTStreamConsumer.cpp
Linking: frontend
make[1]: Leaving directory '/home/nvidia/tegra_multimedia_api/samples/frontend'
Make in samples/v4l2cuda
make[1]: Entering directory '/home/nvidia/tegra_multimedia_api/samples/v4l2cuda'
Compiling: capture.cpp
Compiling: yuv2rgb.cu
Linking: capture-cuda
make[1]: Leaving directory '/home/nvidia/tegra_multimedia_api/samples/v4l2cuda'
Make in tools/ConvertCaffeToTrtModel
make[1]: Entering directory '/home/nvidia/tegra_multimedia_api/tools/ConvertCaffeToTrtModel'
Compiling: ConvertCaffeToTrtModel_main.cpp
Linking: ConvertCaffeToTrtModel
make[1]: Leaving directory '/home/nvidia/tegra_multimedia_api/tools/ConvertCaffeToTrtModel'
Installation of target components finished, close this window to continue.
```



- HOST PC 에서 usb 연결 제거
Jetson 에 디스플레이 장치 및 마우스 키보드 연결함 ==> JETSON에 USB 포트가 1개밖에 없으므로, 연결 소켓(6구)를 이용함
Jetson 재부팅함



- 인터넷 연결 : 랜선



- 인터넷 연결 : 무선 (랜선제거후 무선으로 연결)



- 비밀번호

Jetpack 설치를 하면 계정(사용자)이 2개(Ubuntu , nvidia)가 생긴다
각각의 비밀번호는 Ubuntu => Ubuntu , nvidia==> nvidia 입니다.
비밀번호를 설정한적이 없지만, 자동으로 위와같이 생성이 됩니다.

추후에 각자 비밀번호를 변경하시면 됩니다.

- 문제점

Jetson 보드의 휠 이 돌지 않음, 아래 명령어가 작동않됨
==> Sudo nvpmodel -m 0