tensorflow

- description : tensorflow 관련 내용 기술
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Tensorflow

Install

Ubuntu 18.04 (GPU version)

1. CUDA Toolkit 10.1 update2

```
https://developer.nvidia.com/cuda-toolkit-archive (회원 가입 필요 없음)
```

tip:위 버전이 Tensorflow2 gpu 호환 가능 버전

2. cuDNN v7.6.4 설치

```
https://developer.nvidia.com/rdp/cudnn-archive (회원가입 필요)
```

tip:위 버전이 CUDA Toolkit 10.1 update2 호환 버전

3. python3.8 설치

```
https://linuxize.com/post/how-to-install-python-3-8-on-ubuntu-18-04/
```

4. NVIDIA driver 설치

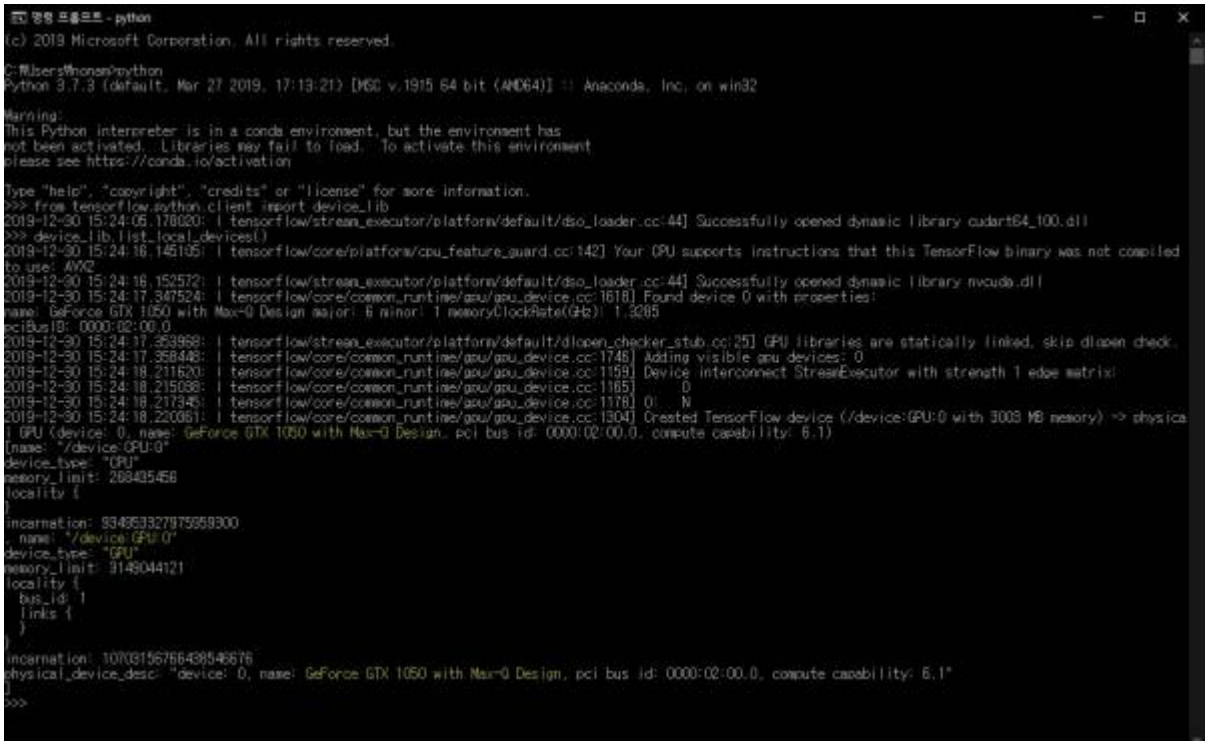
```
$> nvidia-smi
$> ubuntu-drivers devices
$> sudo ubuntu-drivers autoinstall
```

https://linuxconfig.org/how-to-install-the-nvidia-drivers-on-ubuntu-18-04-bionic-beaver-linux
우분투에서 NVIDIA 드라이버 설치 방법

gpu 사용 확인 code

```
from tensorflow.python.client import device_lib
```

```
device_lib.list_local_devices()
```



Ref

tensorflow GPU 사용하기

Tip

33. TensorFlow 2.0 Release 및 변경사항 정리 – Tf.Session & Tf.Placeholder 삭제, @Tf.Function, Tf_upgrade_v2

https://askubuntu.com/questions/1106943/syntaxerror-regarding-async-when-attempting-to-run-jupyter-in-python-3-7

Troubleshooting

Ref

도봉산핵주먹, tensorflow