

# tensorflow

- description : tensorflow
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- lastupdate : 2020-07-08

## Tensorflow

### Install

Ubuntu 18.04 (GPU version)

1. CUDA Toolkit 10.1 update2

```
https://developer.nvidia.com/cuda-toolkit-archive ( 가 )
```

tip: Tensorflow2 gpu 가

2. cuDNN v7.6.4

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

tip: CUDA Toolkit 10.1 update2

3. python3.8

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

4. NVIDIA driver

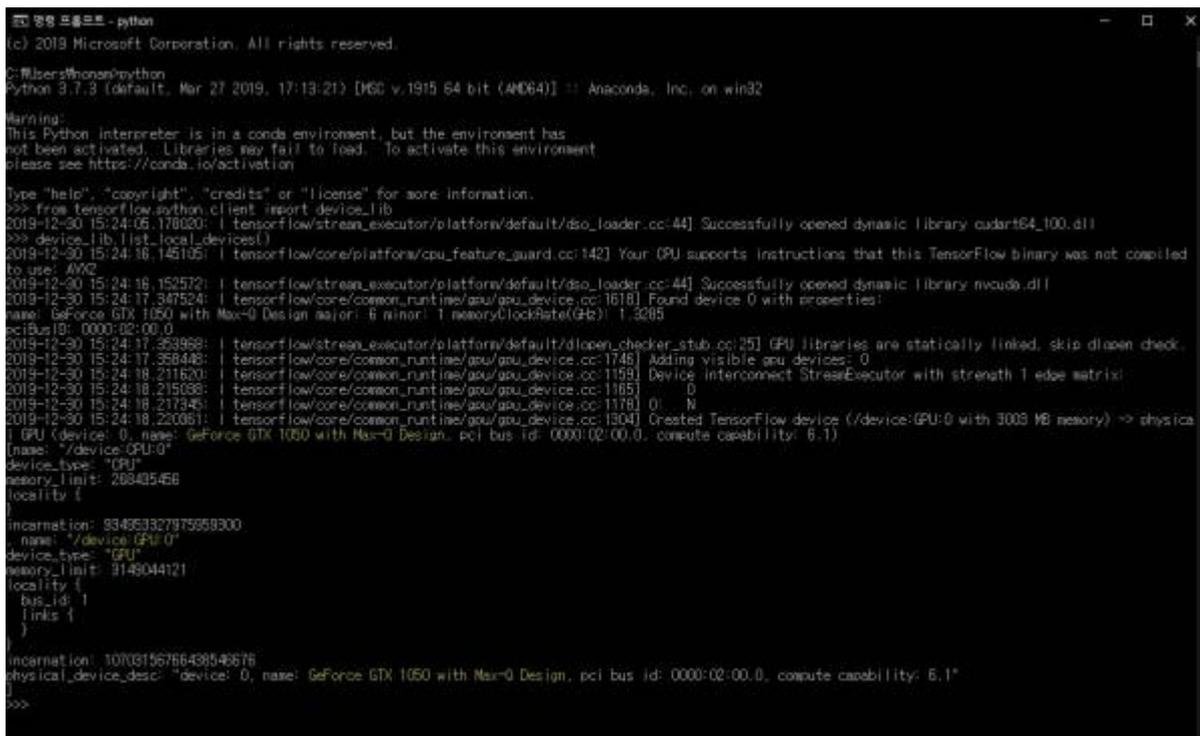
```
$> nvidia-smi  
$> ubuntu-drivers devices  
$> sudo ubuntu-drivers autoinstall
```

<https://linuxconfig.org/how-to-install-the-nvidia-drivers-on-ubuntu-18-04-bionic-beaver-linux>  
NVIDIA

### gpu code

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

## device\_lib.list\_local\_devices()



### Ref

[tensorflow GPU](#)

### Tip

[33. TensorFlow 2.0 Release](#)    - Tf.Session & Tf.Placeholder    , @Tf.Function, Tf\_upgrade\_v2

## Troubleshooting

### Ref

, [tensorflow](#)

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