Docker for Tensorflow2.x and Cuda Toolkit

1. 安裝 docker for tensorflow-gpu

docker pull tensorflow/tensorflow: 2.6.0-gpu

到這頁找版本

2. 安裝 docker for Cuda toolkit

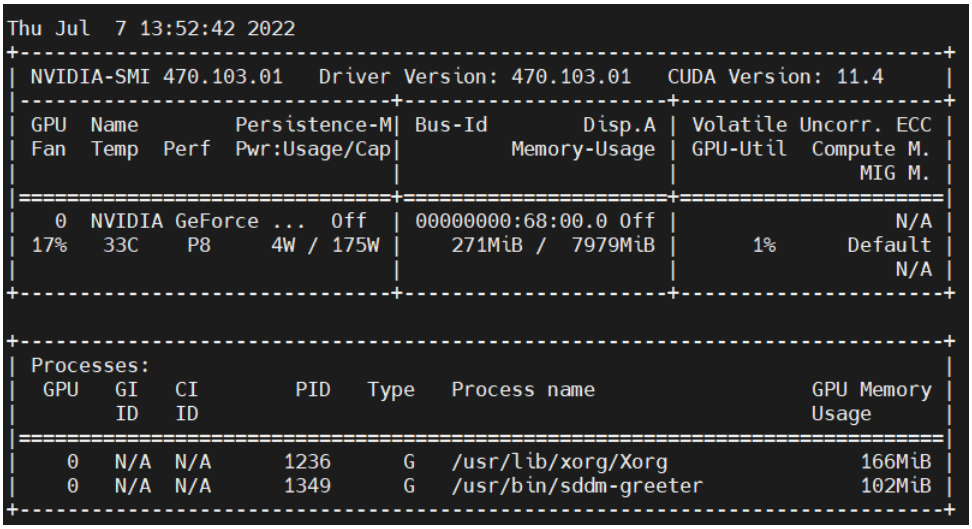
sudo apt-get install -y nvidia-docker2

sudo systemctl restart docker

sudo docker run --rm --gpus all nvidia/cuda: 11.4.0-base-ubuntu18.04 nvidia-smi

到這頁找版本

成功會出現



3. 啟動 tensorflow with cuda

docker run --gpus all -it --rm tensorflow/tensorflow: 2.6.0-gpu

4. 確認是否有運行到 gpu

python -c "import tensorflow as tf; print(tf.reduce_sum(tf.random.normal([1000, 1000])))"

或是

python -c "import tensorflow as tf; print(tf.config.list_physical_devices('GPU'))"

5. 啟動並掛載當前工作資料夾到 Docker 中

docker run --gpus all --rm -v /home/norris/Tensorflow2:/home -it tensorflow:2.6.0-gpu /bin/bash