#!/bin/bash

# Update packages

apt-get update

# Non-interactive mode, use default answers

export DEBIAN\_FRONTEND=noninteractive

# Workaround for libc6 bug - asking about service restart in non-interactive mode

# https://bugs.launchpad.net/ubuntu/+source/eglibc/+bug/935681

echo 'libc6 libraries/restart-without-asking boolean true' | debconf-set-selections

# Install Python 3.7

sudo add-apt-repository -y ppa:deadsnakes/ppa

sudo apt-get -y install python3.7 python3.7-dev

curl https://bootstrap.pypa.io/get-pip.py | sudo python3.7

# Add Nvidia repositories

wget https://developer.download.nvidia.com/compute/cuda/repos/ubuntu2204/x86\_64/cuda-ubuntu2204.pin

mv cuda-ubuntu2204.pin /etc/apt/preferences.d/cuda-repository-pin-600

wget https://developer.download.nvidia.com/compute/cuda/11.8.0/local\_installers/cuda-repo-ubuntu2204-11-8-local\_11.8.0-520.61.05-1\_amd64.deb

dpkg -i cuda-repo-ubuntu2204-11-8-local\_11.8.0-520.61.05-1\_amd64.deb

cp /var/cuda-repo-ubuntu2204-11-8-local/cuda-\*-keyring.gpg /usr/share/keyrings/

apt-get update

apt-get -y install cuda

# Install drivers, CUDA and cuDNN

apt-get -y install --no-install-recommends nvidia-driver-418

apt-get -y install --no-install-recommends cuda-10-0 libcudnn7=\\*+cuda10.0 libcudnn7-dev=\\*+cuda10.0

apt-get -y install --no-install-recommends libnvinfer5=5.\\*+cuda10.0 libnvinfer-dev=5.\\*+cuda10.0

# Install TensorFlow

pip3.7 install tensorflow-gpu

# Install PyTorch

#pip3.7 install $(curl https://pytorch.org/assets/quick-start-module.js | grep -A1 "stable,pip,linux,cuda10.0,python3.7" | grep -oP 'https.\*?\.whl')

pip3.7 install torch torchvision

# Install other Python packages

pip3.7 install numpy pandas matplotlib tqdm pexpect opencv-python

# Reboot

reboot