Step-by-step guide to run template in AWS GPU.

**Firstly**, build your instance on AWS: please see 17.4 Using AWS Instances in D2L book.

https://en.d2l.ai/d2l-en.pdf

**Some hints:**

1. In 17.4.3 Installing CUDA. The CUDA 10.0 is installed in the default server, so we actually don’t need to install it again.
2. In 17.4.4 Installing MXNet and Download the D2L Notebooks. We don’t need to install MXNet, rather we need to install pytorch.

“sudo pip3 install torch torchvision”

**Running ipython notebook in the server**

After we set up the server, we access to the server using “ssh -i "your /path /to /key.pem" ubuntu@xxx-xx-xxx-xxx-xxx.us-east-2.compute.amazonaws.com -L localhost:XXXX:localhost:YYYY”

XXXX is the port that we will listen locally, YYYY is the port that we will set for remote IPython notebook.

After accessing to the server, using “ipython notebook –-no-browser –port=YYYY” to create the notebook.

Back to local user, in your browser, go to “http://localhost:XXXX/?token=...” to use notebook.

Eg. If we set use “ssh … -L localhost:8889:localhost:8888” to access to the server, in the server terminal, we need to use “ipython notebook –-no-browser –port=8888”. And back to you local computer, in browser, go to “localhost:8889/…” to listen.

You can run the template code in ipython notebook now!