# Hostname

[netid@research-tarokhlab-01.oit.duke.edu](mailto:netid@research-tarokhlab-01.oit.duke.edu)

[netid@research-tarokhlab-02.oit.duke.edu](mailto:netid@research-tarokhlab-03.oit.duke.edu)

[netid@research-tarokhlab-03.oit.duke.edu](mailto:netid@research-tarokhlab-03.oit.duke.edu)

4 NVIDIA RTX 2080 TI (10989MB)

# To **on campus network or using VPN**

# To upload files

scp ./src.zip netid@research-tarokhlab-03.oit.duke.edu:

# To download files

scp netid@research-tarokhlab-03.oit.duke.edu:./output.zip .

# To check GPU status

NVIDIA-SMI

# To run python code

CUDA\_VISIBLE\_DEVICES="0" python train\_model.py

**0 here means the id of GPU device. There are 4 GPUs on each server and id is 0-3**

# To use data and save output

create symbolic link using

ln -s /scratch/data ./src/data

ln -s /scratch/netid/output ./src/output

**You cannot save your model in your home directory. The SSD device is mounted at /scratch**

# To prevent program halt due to lost connection

**use screen on the remote server**

<https://linuxize.com/post/how-to-use-linux-screen/>

* *create a screen*

screen -S netid

* *detach a screen*

screen -D netid (not attaching)

ctrl+a d (attaching)

* *reattach a screen*

screen -r netid

* *list screens*

screen -ls

* *kill a screen*

screen -X -S [session # you want to kill] quit

# To avoid typing password during ssh or scp

<https://www.howtoforge.com/linux-basics-how-to-install-ssh-keys-on-the-shell>

# To kill a process list by NVIDIA-SMI

kill -9 process\_id

# To kill all your processes on all GPUs

kill -9 $(nvidia-smi | sed -n 's/|\s\*[0-9]\*\s\*\([0-9]\*\)\s\*.\*/\1/p' | sort | uniq | sed '/^$/d')

# To (un)zip files

zip netid.zip \*

unzip src.zip -d netid