

# HW5 NOTS Command Guide

## Covered Actions:

- Logging into/out of the cluster
- Copying files to the cluster
- Copying files from the cluster
- Compiling CUDA code
- Launching a job (currently missing)

# Logging into/out of the Cluster

- To login to the cluster, run:

- `ssh -Y <netID>@notes.rice.edu`

- The first time you run this, you will be asked to accept the connection despite an authentication warning
  - You will be asked for your NetID password every time
  - You must be on the campus VPN or a campus computer

- To log out:

- `exit`

# Copying Files to the Cluster

- When you login you are in your Home directory
  - We will not use any of the other directories available on the cluster
- To copy the template file to your Home directory:
  - `scp template.cu <netID>@notes.rice.edu:<netID>_scaling.cu`
  - Note the above will also rename the template file and place it in your Home directory
  - Run this from your computer, i.e., not while logged into the NOTS cluster
- To copy files to your home directory without renaming:
  - `scp <file to copy> <netID>@notes.rice.edu:`

# Copying Files from the Cluster

- To copy files from your Home directory back to your computer:
  - `scp <netID>@notes.rice.edu:~/<file to copy back> .`
  - Note: run this command from your computer/i.e. log out of the NOTS cluster first

# Compiling CUDA Code

- Load CUDA:
  - `module load CUDA`
    - You will have to run this once every time you login
- Compile your code:
  - `nvcc -o scaling <netID>_gpu_scaling.cu`