Introduction to Kamiak
Follow Along

Logging in to Kamiak
Terminal >> New Window
ssh your.name@kamiak.wsu.edu

Transferring Files to and from Kamiak
Copy from Kamiak
Terminal >> New Window
scp your.name@kamiak.wsu.edu:~/.bashrc .
ls -l .bashrc
mv .bashrc newbash

Copy to Kamiak
scp newbash your.name@kamiak.wsu.edu:~
scp -r your.name@kamiak.wsu.edu:/opt/apps/samples/training .
ls -l training

Synchronize
rsync -avx newbash your.name@kamiak.wsu.edu:~

Submitting Batch Jobs to Kamiak
Log into Kamiak
ssh your.name@kamiak.wsu.edu

Setup only for this training
cp -r opt/apps/samples/training .
cd training
. setup.sh

Create/edit a job script
cat myJob.sh

Submit the job script
sbatch myJob.sh # To test: sbatch --test-only myJob.sh
**View the job queue**

squeue -u your.name  # Shows pending and running jobs
squeue -j jobNumber

**See output**

cat myJob*.out

**Cancel the job**

scancel jobNumber

**View job history and details**

sacct -S 2/26/18 -u your.name  # Past job history
scontrol show job jobNumber  # Job details

---

**Viewing Information about the Cluster**

**What partitions and nodes are available**

sinfo -a | more  # Availability (alloc, idle, mix)

**View all running and queued jobs**

squeue -a | more  # Queued jobs for all partitions

**View node details**

scontrol show node cn93  # Amount of memory, cpus, GPUs

---

**Interactive Jobs**

idev -N 1 --ntasks-per-node=2 -t 360
module avail
module load python/2.7.10
module list
python -i
  print "Hello World!"
  exit()
srun -l python helloWorld.py --nowait
exit
**Job Arrays**

cat jobArray.sh  
sbatch jobArray.sh  
squeue -u your.name  
cat output/myJobArray*.out  
scancel jobNumber

**Using Available Software on Kamiak**

module load python # load latest version  
module load python3/3.5.0 # load specific version  
module list # see loaded modules  
module whatis anaconda3 # see what a module does  
module help wrf # see help for a module  
module avail # available compatible modules  
module spider # see all modules  
module unload python3 # unload a module  
module purge # unload all modules  
which python # see that python is in your path  
printenv PATH # see effects of loading modules  
printenv LD_LIBRARY_PATH

**Using Scratch Storage**

export myScratch = "$(mkworkspace -q)"  
echo $myScratch  
export myScratch = "$(mkworkspace -q -b /local)"  
echo $myScratch

**Getting Help**

hpc.wsu.edu  

*Support & Drop-in Hours*