Introduction to Kamiak
Follow Along

Transferring Files to and from Kamiak

**Copy from Kamiak to your laptop**
Terminal >> New Window  (for Windows, Start >> Ubuntu)
scp -r your.name@kamiak.wsu.edu:/opt/apps/samples/training .
ls -l training

**Copy from your laptop to Kamiak**
scp -r training your.name@kamiak.wsu.edu:~/

**Synchronize**
rsync -ravx training/ your.name@kamiak.wsu.edu:~/training

Logging into Kamiak

**Log into Kamiak**
Terminal >> New Window  (for Windows, Start >> Ubuntu)
ssh your.name@kamiak.wsu.edu
exit

Submitting Batch Jobs to Kamiak

**Log back into Kamiak**
ssh your.name@kamiak.wsu.edu

**Setup only for this training**
cd training
source  training_only_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 3/10/21 -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=1 --cpus-per-task=2 -t 360
   module avail
   module load python/2.7.15
   module list
   python -i
      print "Hello World!"
      exit()
   srun -l python helloWorld.py
   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 avail          # Available modules compatible with compiler
module load python3/3.4.3 # Load specific version (recommended)
module list           # See loaded modules
module avail python3   # See available python3 modules
module load python3    # Load latest version
module unload python3  # Unload a module
module spider         # See all modules
module whatis anaconda3 # See what a module does
module help anaconda3  # See help for a module
which python3          # See that python is in your path
printenv PATH          # See effects of loading modules
printenv LD_LIBRARY_PATH

Using Scratch Storage

export  myscratch="$(mkworkspace)"
echo  $myscratch
lsworkspace -v

Getting Help

hpc.wsu.edu
hpc.wsu.edu/cheat-sheet
hpc.wsu.edu/training/slides
hpc.wsu.edu/training/follow-along

Support & Zoom Help Desk Hours
User’s Guide / Kamiak Cheat Sheet