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 .
sl -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 10/5/21 -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 help python/2.7.15
    module load python/2.7.15
    module list
    python -i
        print "Hello World!"
        exit()
    srun -l python helloWorld.py
    exit

Using Scratch Storage
    export myscratch="$\$(mkworkspace)"
    echo $myscratch
    lsworkspace
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
module load python3/3.4.3
module list
module avail python3
module load python3
module unload python3
module spider
module whatis anaconda3
module help anaconda3
which python3
printenv PATH
printenv LD_LIBRARY_PATH

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

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