

Connecting to ICS-ACI:

- Using Putty
 - Host Name: *aci-b.aci.ics.psu.edu* or *aci-i.aci.ics.psu.edu*
 - Port: **22**
 - Enable X11 Forwarding: **Category > SSH > X11 > Check "Enable X11 forwarding"**
 - Set User Name: **Category > Connection > Data > Enter username in "Auto-login username"**
- Using SSH
 - `ssh -Y <userName>@aci-b.aci.ics.psu.edu`
 - `ssh aci-i.aci.ics.psu.edu`
- Using Exceed onDemand (aci-I only)
 - Host name: *aci-i.aci.ics.psu.edu*
 - Xconfig: *Desktop_Mode_1400x1050.cfg*
 - Xstart: *Gnome_Desktop.xs*

Copying files:

- WinSCP
 - Host Name: *fsgw01.aci.ics.psu.edu*
 - File Protocol: SCP
- scp
 - `scp -P 1022 <username>@aci-i.aci.ics.psu.edu:<full path/filename> <target>`

Submitting a job to your allocation:

- Either: `qsub -A <allocName>` OR `#PBS -A <allocName>`
- Job start within 1 hour of submission in core allocation (nodes, cores, memory available)
- Bursting is allowed up to 4x of the core allocation
- Multiple burst jobs may be submitted

Open Allocation Notes:

- Use: `qsub -A open` OR `#PBS -A open`
- No guarantees and lower priority
- Limits: 20 cores running per user, 100 queued jobs, 24 hour runtime with no extensions

Storage:

| Directory | Capacity | Backup | Path |
|-----------|------------------|--|---|
| Home | 10Gb | Private NFS with Backup/Recovery | <i>/storage/home/<userID></i> |
| Work | 128Gb | Shared NFS with Backup/Recovery | <i>/storage/work/<userID></i> |
| Scratch | 1 million files* | GPFS with no Backup* | <i>/gpfs/scratch/<userID></i> |
| Group | 5 Tb blocks | NFS w/ Backup/Recovery & Dual Mount option | <i>/storage/group/<allocName></i> |

Using the Modules:

- `module av <keyword>` (to search available software by any specific keyword)
- `module load <moduleName>` (to load specific software)
- `module show <moduleName>` (to show paths for executable bins and library files)

Checking your Allocation and Usage (ACI-B):

- `glsfund -h` (For rolling 90 day allocation and balance)
- `showq -w acct=<allocName>`
- `glusage -u <userID>`
- `glusage -g <allocName>`

i-ASK Center Support: <https://iask.aci.ics.psu.edu> or (814) 865-4275

Duo Support: <http://itservicedesk.psu.edu> email:itservicedesk@psu.edu or call (814) 865-4357