

# Introduction to GACRC Teaching Cluster

## PHYS8601

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Georgia Advanced Computing Resource Center (GACRC)

Enterprise Information Technology Services(EITS)

The University of Georgia

# Outline

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- GACRC
- Overview
- Working Environment
  - Two Nodes and Three Folders
  - Computational Partitions
  - Software
- Submit a Computational Batch Job
- GACRC Wiki and Support

# GACRC

- A high-performance-computing (HPC) center at the UGA
- Provide to the UGA research and education community an advanced computing environment:
  - HPC computing and networking infrastructure located at the Boyd Data Center
  - Comprehensive collection of scientific, engineering and business applications
  - Consulting and training services

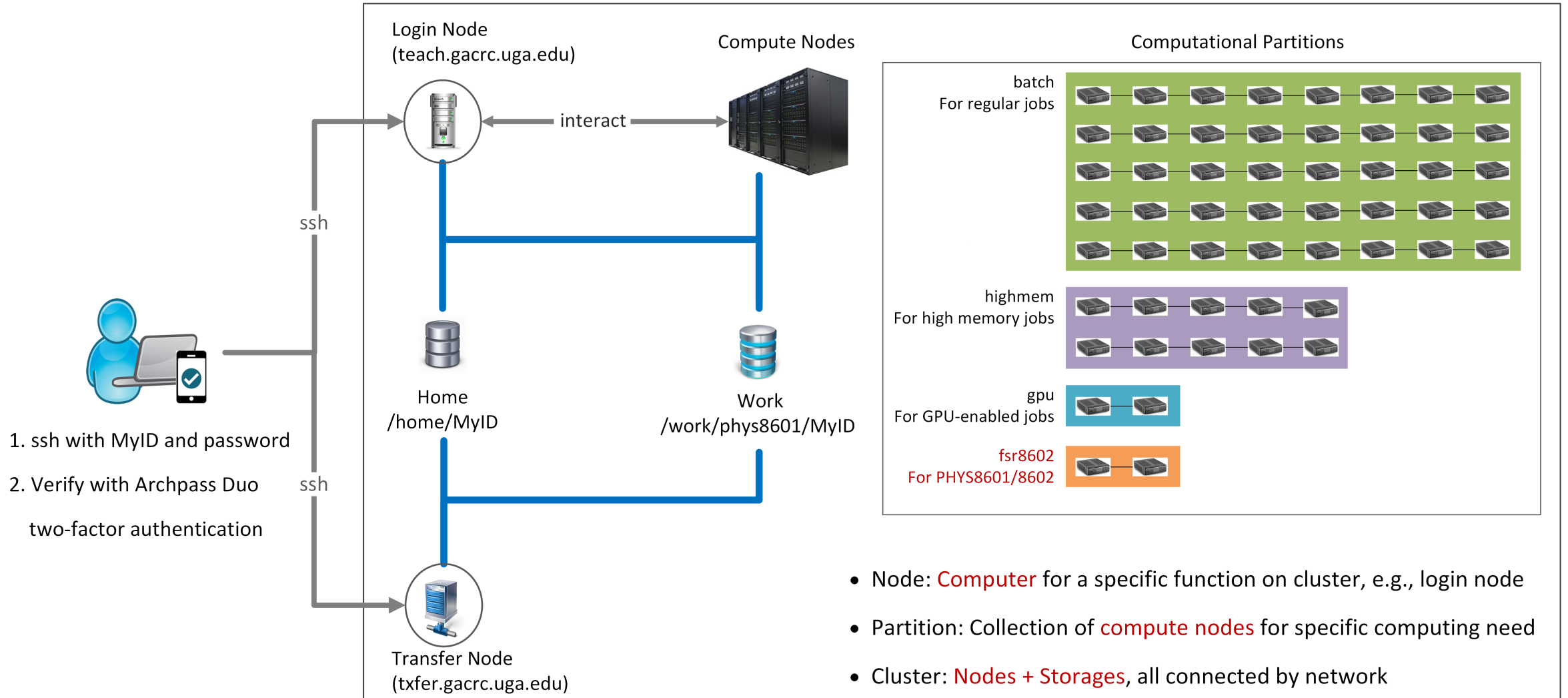
Wiki: <http://wiki.gacrc.uga.edu>

Support: [https://wiki.gacrc.uga.edu/wiki/Getting\\_Help](https://wiki.gacrc.uga.edu/wiki/Getting_Help)

Web Site: <http://gacrc.uga.edu>

Kaltura Channel: <https://kaltura.uga.edu/channel/GACRC/176125031>

# Teaching Cluster



Note: You need to connect to the **UGA VPN** at first when accessing from outside of the UGA main campus.

# Working Environment

[https://wiki.gacrc.uga.edu/wiki/Systems#Teaching\\_cluster](https://wiki.gacrc.uga.edu/wiki/Systems#Teaching_cluster)

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- Two nodes, your "username" is your MyID for both of them:
  1. For batch job workflow, the host to log into is **teach.gacrc.uga.edu**
  2. For file transfers, the host to log into is **txfer.gacrc.uga.edu**
- Three folders:
  1. /home/MyID : working space for running computational jobs
  2. /scratch/MyID: working space for running computational jobs
  3. /work/phys8601/MyID : data storing space for individual user in a class
  4. /work/phys8601/instructor\_data : data shared with class by the instructors
- Partitions for PHYS8601/8602 class: **fsr8602**

# Working Environment (cont.)

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## ➤ Software

1. Software names are long and have a Easybuild toolchain name associated to it
2. Complete module name: **Name/Version**-toolchain, e.g., **Python/3.10.4**-GCCcore-11.3.0
3. Software names are case-sensitive!
  - `module spider pattern` : Search modules using a name pattern (case-insensitive)
  - `module load/unload moduleName` : Load/remove a module
  - `module avail` : List all available modules on the cluster
  - `module list` : List modules currently loaded
  - `module purge` : Remove all modules from working environment

# Submit a Computational Batch Job

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1. Log on to Login node using MyID and password, and two-factor authentication with Archpass Duo:  
`ssh MyID@teach.gacrc.uga.edu`
2. Change directory to your scratch space: `cd /scratch/MyID`
3. Create a working subdirectory for a job : `mkdir workDir`
4. Change directory to workDir : `cd workDir`
5. Transfer data from local computer to workDir : use `scp` or `WinSCP` to connect Transfer node  
Transfer data on cluster to workDir : log on to Transfer node and then use `cp` or `mv`
6. Compile C code *mult.c* into a binary code
7. Make a job submission script in workDir : `nano sub.sh`
8. Submit a job from workDir : `sbatch sub.sh`
9. Check job status : `squeue --me` or Cancel a job : `scancel JobID`

# Step1: Log on to Login node

[https://wiki.gacrc.uga.edu/wiki/Connecting#Connecting\\_to\\_the\\_teaching\\_cluster](https://wiki.gacrc.uga.edu/wiki/Connecting#Connecting_to_the_teaching_cluster)

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1. Teaching cluster access requires verification using two-factor authentication with **Archpass Duo**. If you are not enrolled in Archpass Duo, please refer to [https://eits.uga.edu/access\\_and\\_security/infosec/tools/archpass\\_duo/](https://eits.uga.edu/access_and_security/infosec/tools/archpass_duo/) on how to enroll
2. If you are connecting from **off-campus**, please first connect to the **UGA VPN** and then connect to teach.gacrc.uga.edu. Information on how to use the VPN is available at [https://eits.uga.edu/access\\_and\\_security/infosec/tools/vpn/](https://eits.uga.edu/access_and_security/infosec/tools/vpn/)



## Step1: Log on to Login node - Mac/Linux using ssh

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1. Open **Terminal** utility
2. Type command line: `ssh MyID@teach.gacrc.uga.edu`
3. You will be prompted for your **UGA MyID password**
4. You will verify your login using **Archpass Duo** authentication

ssh zhuofei@teach.gacrc.uga.edu ← 1. use ssh to open connection

UGA DUO authentication is required for SSH/SCP access to GACRC systems. For additional help with UGA DUO authentication or to report an issue please visit: [https://eits.uga.edu/access\\_and\\_security...](https://eits.uga.edu/access_and_security...)

Password: ← 2. Enter your MyID password  
When you enter password, no stars or dots will show as you are typing. Please type password carefully!

Duo two-factor login for zhuofei

Enter a passcode or select one of the following options:

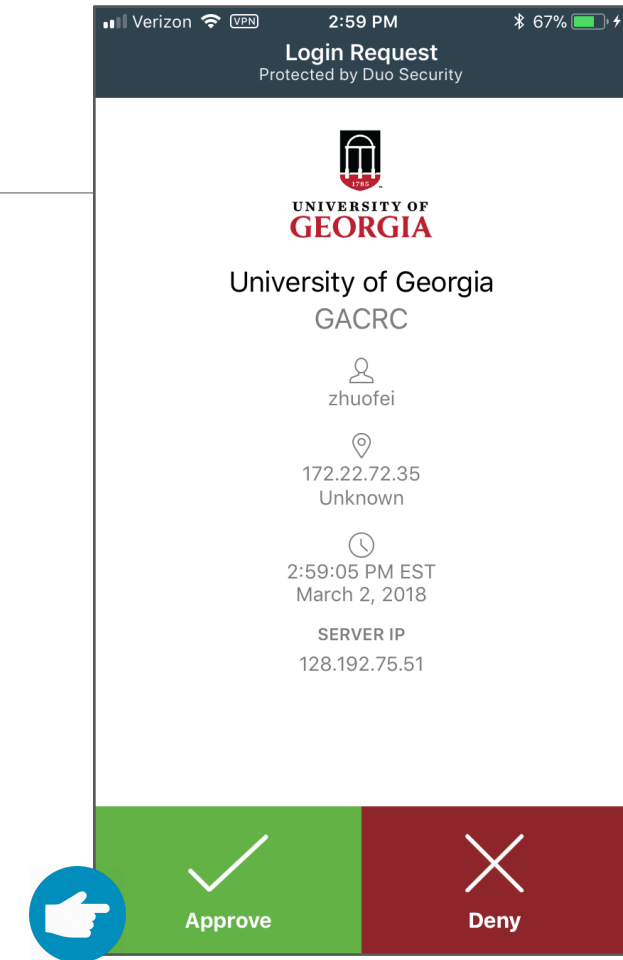
1. Duo Push to XXX-XXX-5758
2. Phone call to XXX-XXX-5758
3. Phone call to XXX-XXX-1925
- 4 5. SMS passcodes to XXX-XXX-5758 (next code starts with: 1)

Passcode or option (1-5): 1 ← 3. Select Duo option

Success. Logging you in...

Last login: Mon Aug 3 11:11:58 2020 from 172.18.114.119

zhuofei@teach-sub1 ~\$ ← 4. Logged on!



5. Verify login using Duo

## Step1 (Cont.) - Windows using PuTTY

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1. Download and install PuTTY: <https://www.putty.org/>

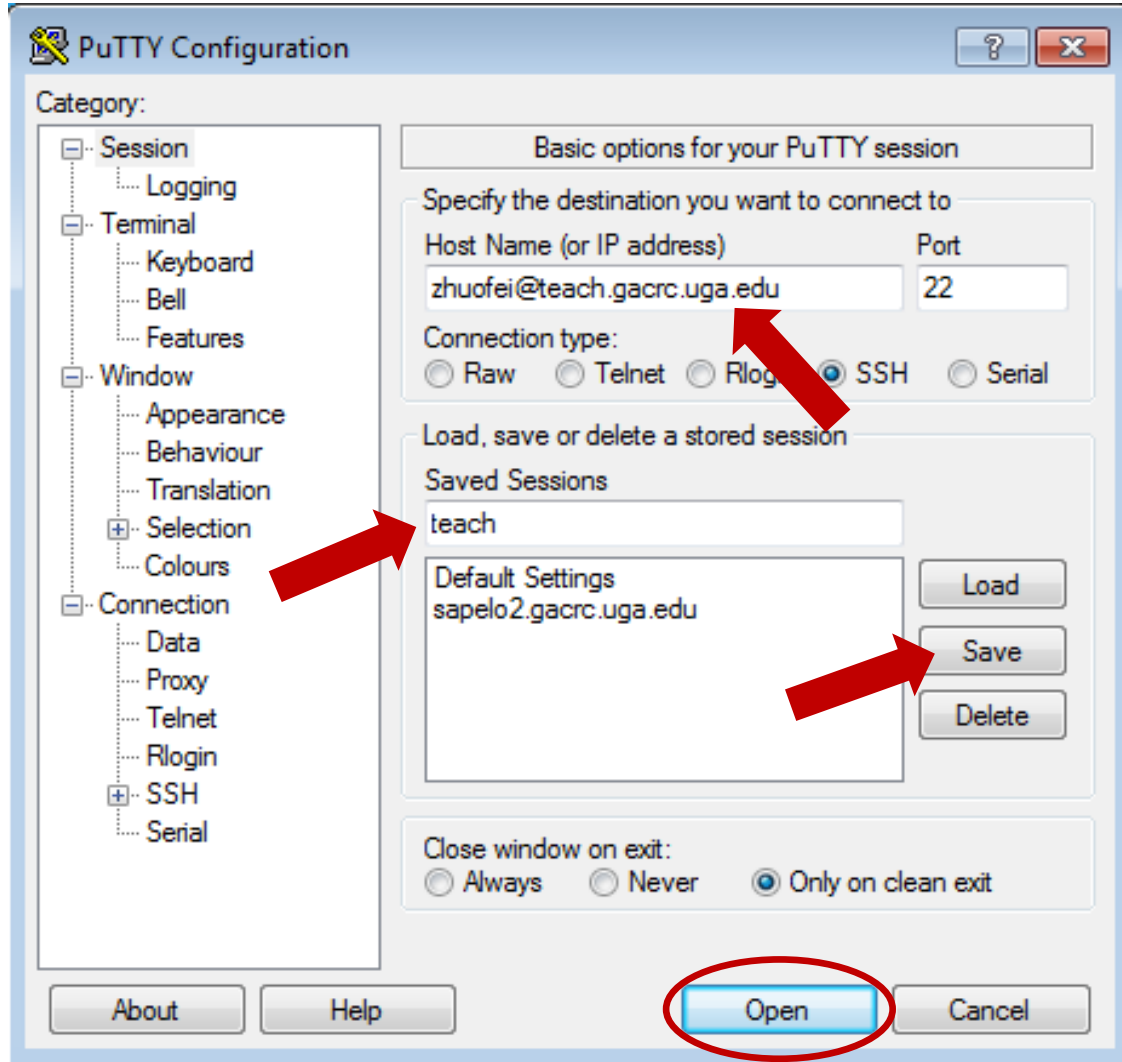
2. Detailed downloading and installation instructions:

[https://wiki.gacrc.uga.edu/wiki/How\\_to\\_Install\\_and\\_Configure\\_PuTTY](https://wiki.gacrc.uga.edu/wiki/How_to_Install_and_Configure_PuTTY)

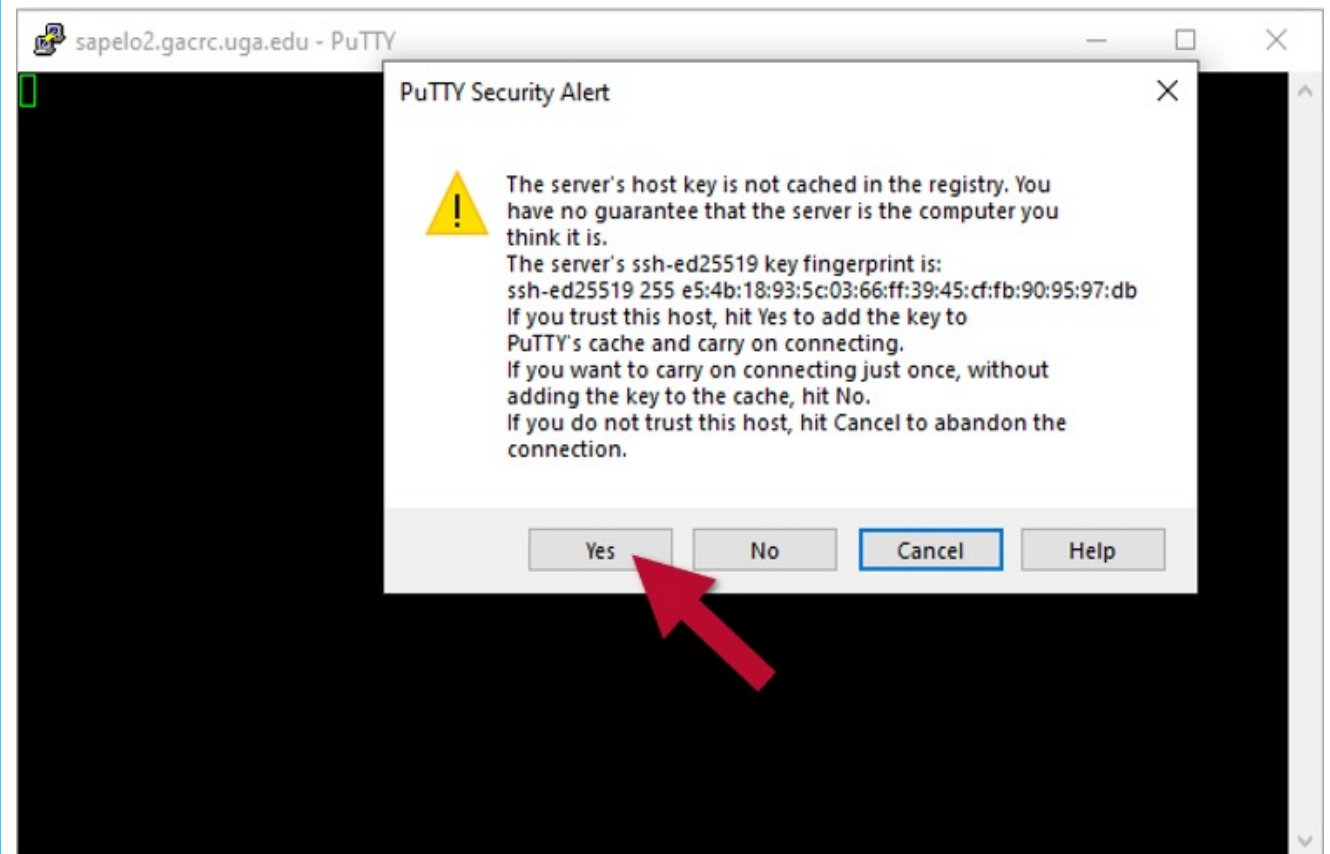
3. Detailed configuring and usage instructions:

[https://wiki.gacrc.uga.edu/wiki/How\\_to\\_Install\\_and\\_Configure\\_PuTTY#Configuring\\_PuTTY](https://wiki.gacrc.uga.edu/wiki/How_to_Install_and_Configure_PuTTY#Configuring_PuTTY)

# Step1 (Cont.) - Windows using PuTTY

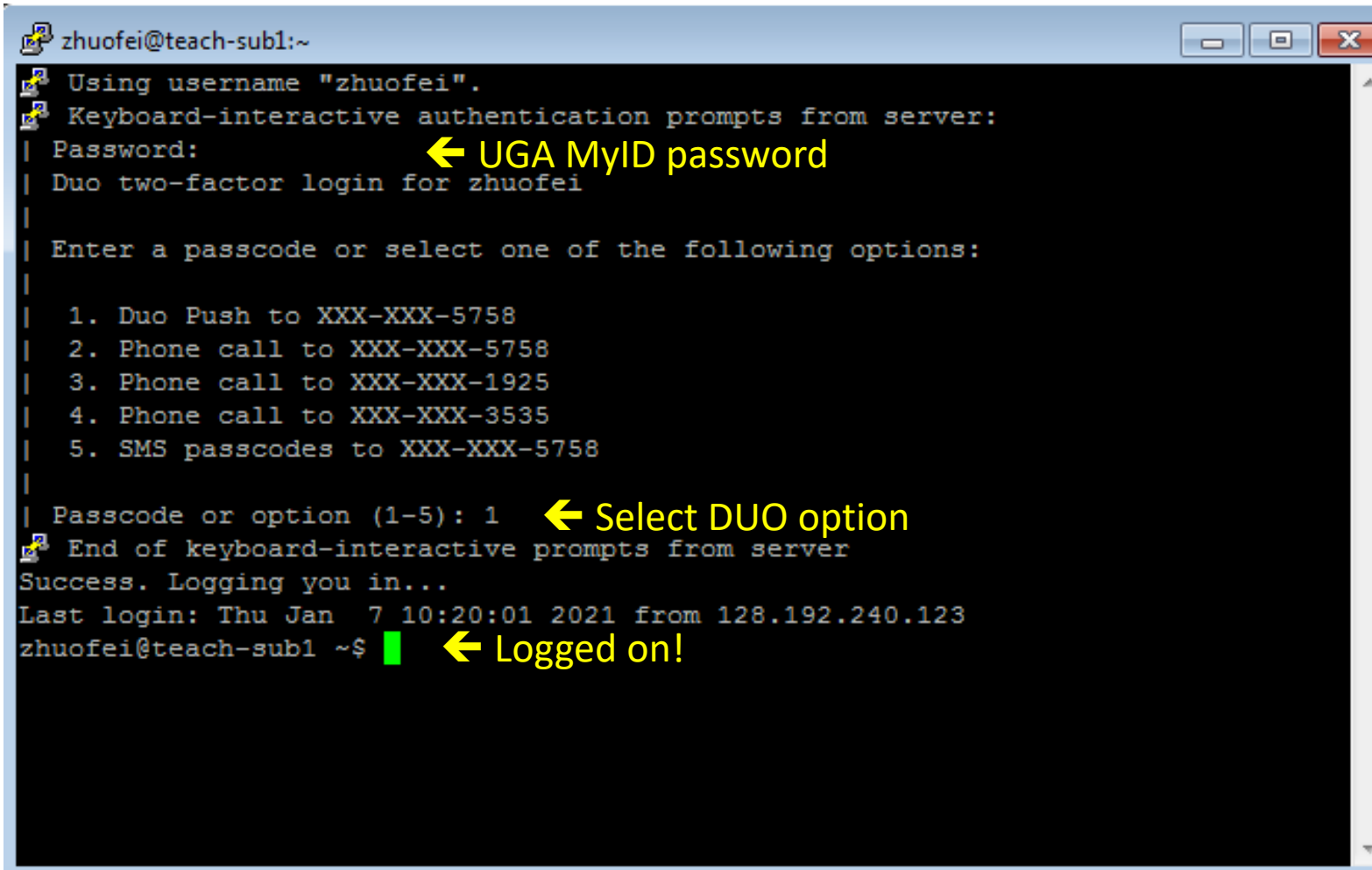


The first time you connect to login node, PuTTY will give you this security alert window. Please click "Yes"



# Step1 (Cont.) - Windows using PuTTY

Next you will enter your UGA MyID password and initiate DUO authentication procedure:



```
zhuofei@teach-sub1:~  
Using username "zhuofei".  
Keyboard-interactive authentication prompts from server:  
| Password: ← UGA MyID password  
| Duo two-factor login for zhuofei  
|  
| Enter a passcode or select one of the following options:  
|  
| 1. Duo Push to XXX-XXX-5758  
| 2. Phone call to XXX-XXX-5758  
| 3. Phone call to XXX-XXX-1925  
| 4. Phone call to XXX-XXX-3535  
| 5. SMS passcodes to XXX-XXX-5758  
|  
| Passcode or option (1-5): 1 ← Select DUO option  
End of keyboard-interactive prompts from server  
Success. Logging you in...  
Last login: Thu Jan  7 10:20:01 2021 from 128.192.240.123  
zhuofei@teach-sub1 ~$ ← Logged on!
```

## Step2 - 4: cd to /scratch dir, make and cd into workDir

---

```
zhuofei@teach-sub1 ~$ cd /scratch/zhuofei ← cd command to change directory
zhuofei@teach-sub1 zhuofei$ mkdir workDir ← mkdir command to create a subdirectory
zhuofei@teach-sub1 zhuofei$ cd workDir/ ← cd command to change directory
zhuofei@teach-sub1 workDir$ ls ← ls command to list contents of directory
zhuofei@teach-sub1 workDir$ ← it is empty in workDir!
```

## Step5: Transfer data from local computer to workDir - Mac/Linux

[https://wiki.gacrc.uga.edu/wiki/Transferring\\_Files#Using\\_scp\\_2](https://wiki.gacrc.uga.edu/wiki/Transferring_Files#Using_scp_2)

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1. Connect to Transfer node (**txfer.gacrc.uga.edu**) in Terminal from your local computer
2. Use **scp** command: scp (-r) [Source] [Target]
3. Enter your MyID password, then select Duo option to verify connection

*E.g. 1:* use scp on local computer, from Local → workDir on cluster

```
scp ./file zhuofei@txfer.gacrc.uga.edu:/home/zhuofei/workDir
```

```
scp -r ./folder/ zhuofei@txfer.gacrc.uga.edu:/home/zhuofei/workDir
```

*E.g. 2:* use scp on local computer, from workDir on cluster → Local

```
scp zhuofei@txfer.gacrc.uga.edu:/home/zhuofei/workDir/file .
```

```
scp -r zhuofei@txfer.gacrc.uga.edu:/home/zhuofei/workDir/folder/ .
```

## Step5 (Cont.) - Windows using WinSCP

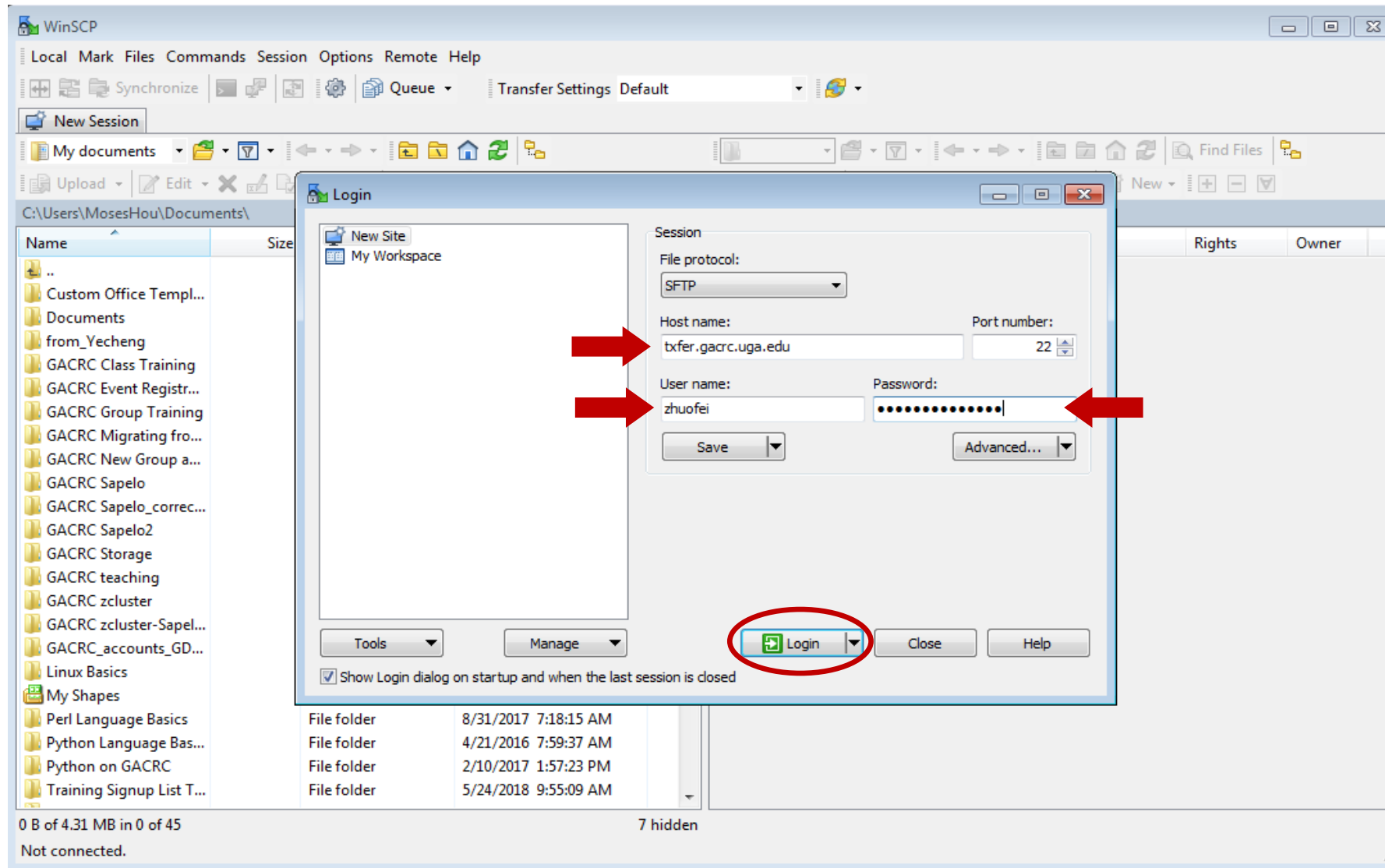
[https://wiki.gacrc.uga.edu/wiki/Transferring\\_Files#Using\\_WinSCP\\_2](https://wiki.gacrc.uga.edu/wiki/Transferring_Files#Using_WinSCP_2)

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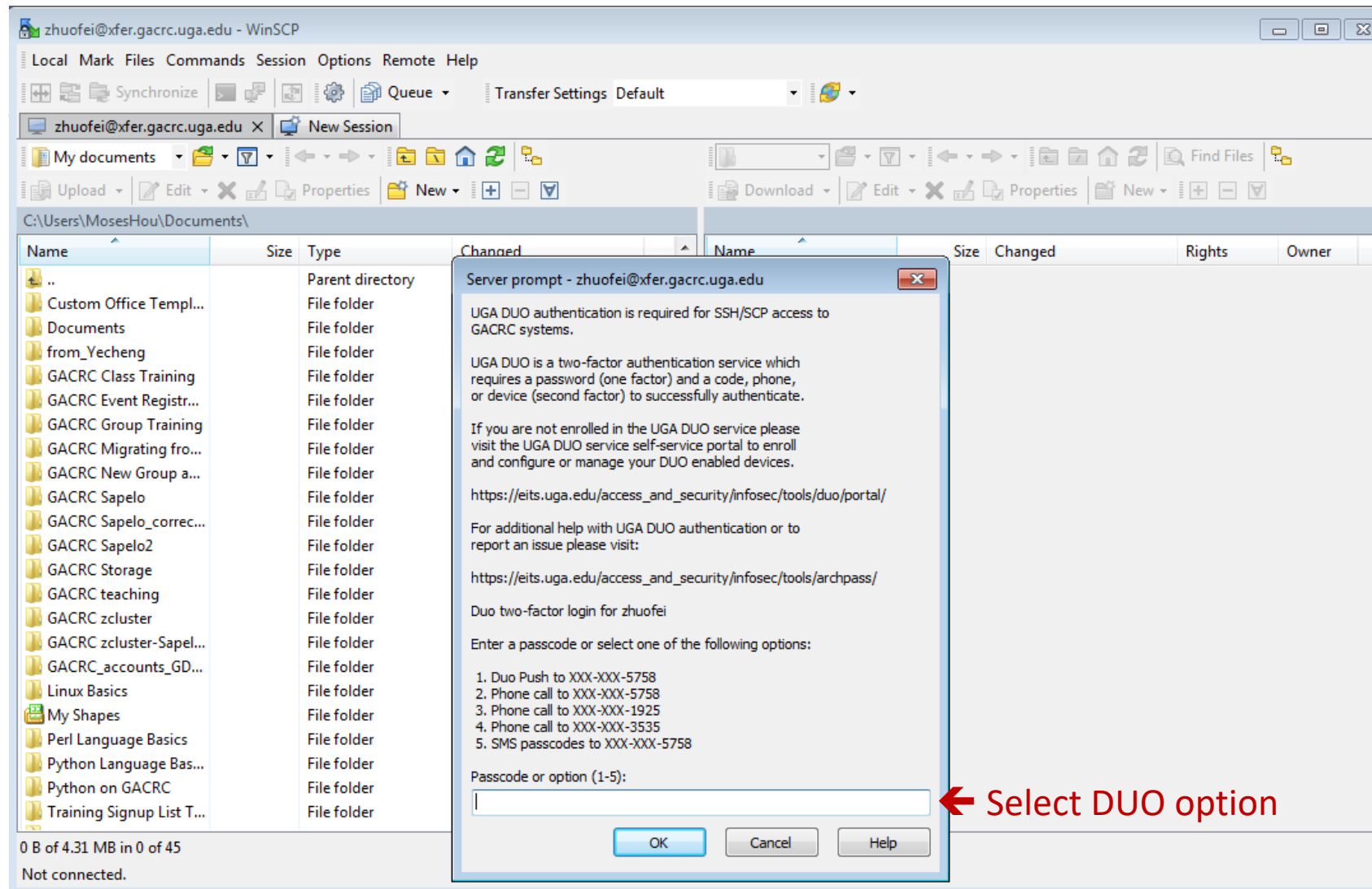
1. You need to connect to cluster's Transfer node (**txfer.gacrc.uga.edu**)
2. Use **WinSCP** on local computer
  - WinSCP can be downloaded from <https://winscp.net/eng/index.php>
  - Default installation procedure is simple
3. Alternative FileZilla [https://wiki.gacrc.uga.edu/wiki/Transferring\\_Files#Using\\_FileZilla\\_2](https://wiki.gacrc.uga.edu/wiki/Transferring_Files#Using_FileZilla_2)



# Step5 (Cont.) - Windows using WinSCP



# Step5 (Cont.) - Windows using WinSCP



# Step5 (Cont.) - Windows using WinSCP

The screenshot shows the WinSCP interface with the following details:

- Local Path:** C:\Users\MosesHou\ (highlighted with a red circle and an arrow pointing to the local file list).
- Remote Path:** /home/zhuofei/ (highlighted with a red circle and an arrow pointing to the remote file list).
- Local File List:**

Name	Size	Type	Changed
..		Parent directory	7/10/2020 6:29:42 AM
Contacts		File folder	6/24/2020 5:30:50 AM
Desktop		File	1/6/2021 9:32:41 AM
Documents		File folder	11/18/2020 1:04:09 PM
Downloads		File folder	1/5/2021 6:40:34 AM
Favorites		File folder	6/24/2020 5:30:50 AM
Links		File folder	
Music		File folder	
Pictures		File folder	
Saved Games		File folder	
Searches		File folder	6/24/2020 5:30:50 AM
Tracing		File folder	7/7/2015 10:45:05 AM
Videos		File folder	6/24/2020 5:30:50 AM
- Remote File List:**

Name	Size	Changed	Rights	Owner
..		12/22/2020 2:35:28 PM	rw-r--r--	root
class_test		9/5/2019 9:26:34 AM	rw-r--r--	zhuofei
CytoscapeConfigurati...		8/11/2020 10:47:52 AM	rw-r--r--	zhuofei
ens		10/13/2020 8:39:53 AM	rw-r--r--	zhuofei
intel		10/9/2020 10:03:39 AM	rw-r--r--	zhuofei
notification		8/17/2018 5:43:27 AM	rw-r--r--	zhuofei
scripts		8/8/2018 2:14:03 PM	rw-r--r--	zhuofei
term-account		1/4/2021 1:01:58 PM	rw-r--r--	zhuofei
templates		8/9/2018 8:18:34 AM	rw-r--r--	zhuofei
workDir		10/29/2020 9:00:13 AM	rw-r--r--	zhuofei
workDir_template		7/30/2020 12:17:24 PM	rw-r--r--	zhuofei
gcc-4.4.sif	128,788 KB	10/9/2020 10:25:27 AM	rw-r--r--	zhuofei
ling6570_config.sh	1 KB	11/19/2019 6:19:22 AM	rw-r--r--	zhuofei
ml-search-gacrc	3 KB	1/4/2021 1:03:39 PM	rw-r--r--	zhuofei
		9/25/2019 7:12:13 AM	rw-r--r--	zhuofei

**Annotations:**

- A blue box with the text "Change paths on your local computer and transfer node" points to the local path field.
- A blue box with the text "Drag to transfer files or folders" is positioned between the two file lists, with a large green double-headed arrow below it.

**Status Bar:** 0 B of 0 B in 0 of 12 | 27 hidden | 0 B of 125 MB in 0 of 14 | 20 hidden | SFTP-3 | 0:04:52

## Step5 (Cont.): Transfer data on cluster to workDir

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- Log on to Transfer node ([txfer.gacrc.uga.edu](https://txfer.gacrc.uga.edu))
  - ✓ Mac/Linux: `ssh MyID@txfer.gacrc.uga.edu` (page 9-10)
  - ✓ Windows: use PuTTY to log in `MyID@txfer.gacrc.uga.edu` (page 11-13)
- Directories you can access on transfer node:
  1. `/home/MyID` (Landing home)
  2. `/work/phys8601/MyID`
  3. `/work/phys8601/instructor_data`
- Transfer data between two folders on cluster using `cp` or `mv`, e.g.:

```
mv /work/phys8601/MyID/datafile /home/MyID/workDir
```

## Step6: Compile C code *mult.c* into a binary



```
zhuofei@teach-sub1 workDir$ interact
zhuofei@rb1-11 workDir$ cp /usr/local/gacrc/training/phys8601/mult.c .
zhuofei@rb1-11 workDir$ cat mult.c
/* Program mult
 * Multiple two integer numbers */
#include <stdio.h>
int main(void)
{
    int i=3, j=4, iprod;
    FILE *fp;
    fp = fopen("output.txt", "w");
    iprod=i*j;
    fprintf(fp, "The product of %d and %d is %d\n", i,j,iprod);
    fclose(fp);
    return 0;
}
zhuofei@rb1-11 workDir$ module load GCC/11.3.0
zhuofei@rb1-11 workDir$ gcc mult.c -o mult.x
zhuofei@rb1-11 workDir$ ls
mult.c  mult.x
zhuofei@rb1-11 workDir$ exit
```

← Start an interactive session  
← Copy source code to working dir  
← Show contents of source code

← Load GCC compiler module  
← Compile source code into a binary  
  
← Binary is generated in your working dir  
← Exit from interactive session

## Step7: Make a job submission script *sub.sh* using *nano*



```
zhuofei@teach-sub1 workDir$ cp /usr/local/gacrc/training/phys8601/sub.sh .
zhuofei@teach-sub1 workDir$ cat sub.sh
#!/bin/bash
#SBATCH --job-name=test
#SBATCH --partition=fsr8602
#SBATCH --ntasks=1
#SBATCH --cpus-per-task=1
#SBATCH --mem=2gb
#SBATCH --time=00:10:00
#SBATCH --output=log.%j
#SBATCH --mail-user=MyID@uga.edu
#SBATCH --mail-type=ALL
cd $SLURM_SUBMIT_DIR
module load GCC/11.3.0
time ./mult.x
zhuofei@teach-sub1 workDir$ nano sub.sh
```

← Copy sub.sh to working dir

← Show contents of sub.sh

# Job name

# Submit job to fsr8602 partition

# Single task job

# Number of cores per task

# Total memory for job

# Time limit hrs:min:sec; fsr8602 TIMELIMIT 10 min

# Standard output and error log

# Where to send mail

# Mail events (BEGIN, END, FAIL, ALL)

# run the binary code you compiled in step 5 in this job

← Use nano to modify sub.sh, e.g., email address

## Step8: Submit a job from workDir using sbatch

[https://wiki.gacrc.uga.edu/wiki/Running\\_Jobs\\_on\\_the\\_teaching\\_cluster#How\\_to\\_submit\\_a\\_job\\_to\\_the\\_batch\\_queue](https://wiki.gacrc.uga.edu/wiki/Running_Jobs_on_the_teaching_cluster#How_to_submit_a_job_to_the_batch_queue)

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```
$ sbatch sub.sh  
Submitted batch job 5230
```

**Tips:** sub.sh is a job submission script for

1. specifying computing resources
2. loading compiler module using **module load**
3. running any Linux commands you want to run
4. running your binary code

## Step9: Check job status using queue

[https://wiki.gacrc.uga.edu/wiki/Monitoring\\_Jobs\\_on\\_the\\_teaching\\_cluster](https://wiki.gacrc.uga.edu/wiki/Monitoring_Jobs_on_the_teaching_cluster)

```
zhuofei@teach-sub1 workDir$ queue --me
```

JOBID	PARTITION	NAME	USER	ST	TIME	NODES	NODELIST (REASON)
5230	fsr8602	test	zhuofei	R	0:01	1	rb1-3

```
zhuofei@teach-sub1 workDir$ queue --me -l
```

```
Mon Jan 09 26:03:14 2024
```

JOBID	PARTITION	NAME	USER	STATE	TIME	TIME_LIMI	NODES	NODELIST (REASON)
5230	fsr8602	test	zhuofei	RUNNING	0:01	1:00	1	rb1-3

Job State: R for Running; PD for PenDing; F for Failed

TIME: the elapsed time used by the job, not remaining time, not CPU time



## Step9 (Cont.): Cancel job using scancel

[https://wiki.gacrc.uga.edu/wiki/Running\\_Jobs\\_on\\_the\\_teaching\\_cluster#How\\_to\\_delete\\_a\\_running\\_or\\_pending\\_job](https://wiki.gacrc.uga.edu/wiki/Running_Jobs_on_the_teaching_cluster#How_to_delete_a_running_or_pending_job)

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```
zhuofei@teach-sub1 workDir$ scancel 5230
```

```
zhuofei@teach-sub1 workDir$ squeue --me
```

JOBID	PARTITION	NAME	USER	ST	TIME	NODES	NODELIST (REASON)
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## Step9 (Cont.): Check job details using sacct-gacrc -X and seff

[https://wiki.gacrc.uga.edu/wiki/Monitoring\\_Jobs\\_on\\_the\\_teaching\\_cluster](https://wiki.gacrc.uga.edu/wiki/Monitoring_Jobs_on_the_teaching_cluster)

```
$ sacct-gacrc -X
```

JobID	JobName	User	Partition	NNode	NCPUS	ReqMem	CPUTime	Elapsed	Timelimit	State	ExitCode	NodeList
5230	test	zhuofei	fsr8602	1	1	2G	00:00:01	00:00:01	00:01:00	COMPLETED	0:0	rb1-3

```
$ seff 5230          # Check computing resources used by a COMPLETED job
```

```
Cluster: gacrc-teach
```

```
User/Group: zhuofei/gacrc-instruction
```

```
State: COMPLETED (exit code 0)
```

```
Cores: 1
```

```
CPU Utilized: 00:00:00
```

```
CPU Efficiency: 0.00% of 00:00:01 core-walltime
```

```
Job Wall-clock time: 00:00:01
```

```
Memory Utilized: 0.00 MB (estimated maximum)
```

```
Memory Efficiency: 0.00% of 2.00 GB (2.00 GB/node)
```

## Step9 (Cont.): Check node info using sinfo

[https://wiki.gacrc.uga.edu/wiki/Monitoring\\_Jobs\\_on\\_the\\_teaching\\_cluster](https://wiki.gacrc.uga.edu/wiki/Monitoring_Jobs_on_the_teaching_cluster)

```
zhuofei@teach-sub1 workDir$ sinfo
```

PARTITION	AVAIL	TIMELIMIT	NODES	STATE	NODELIST
allnodes	up	infinite	1	mix	rb1-11
allnodes	up	infinite	12	idle	c4-23,rb1-[1-10,12]
batch	up	7-00:00:00	8	idle	rb1-[3-10]
gpu	up	7-00:00:00	1	idle	c4-23
highmem	up	7-00:00:00	2	idle	rb1-[1-2]
Interactive	up	7-00:00:00	1	mix	rb1-11
interactive	up	7-00:00:00	1	idle	rb1-12
fsr4601	up	1:00	8	idle	rb1-[3-10]
fsr8602	up	10:00	8	idle	rb1-[3-10]

idle = no cores in use; mix = some cores are still free; alloc = all cores are allocated

# Obtain Job Details

[https://wiki.gacrc.uga.edu/wiki/Running\\_Jobs\\_on\\_the\\_teaching\\_cluster#How\\_to\\_check\\_resource\\_utilization\\_of\\_a\\_running\\_or\\_finished\\_job](https://wiki.gacrc.uga.edu/wiki/Running_Jobs_on_the_teaching_cluster#How_to_check_resource_utilization_of_a_running_or_finished_job)

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Option 1: `seff` for details of computing resource usage of a finished job

Option 2: `sacct-gacrc` for details of computing resource usage of a running or finished job

Option 3: Email notification from finished jobs (completed, canceled, or crashed), if using:

```
#SBATCH --mail-user=username@uga.edu
```

```
#SBATCH --mail-type=ALL
```

GACRC Wiki <http://wiki.gacrc.uga.edu>

Kaltura Channel <https://kaltura.uga.edu/channel/GACRC/176125031>

Connecting: [https://wiki.gacrc.uga.edu/wiki/Connecting#Connecting\\_to\\_the\\_teaching\\_cluster](https://wiki.gacrc.uga.edu/wiki/Connecting#Connecting_to_the_teaching_cluster)

Running Jobs: [https://wiki.gacrc.uga.edu/wiki/Running\\_Jobs\\_on\\_the\\_teaching\\_cluster](https://wiki.gacrc.uga.edu/wiki/Running_Jobs_on_the_teaching_cluster)

Monitoring Jobs: [https://wiki.gacrc.uga.edu/wiki/Monitoring\\_Jobs\\_on\\_the\\_teaching\\_cluster](https://wiki.gacrc.uga.edu/wiki/Monitoring_Jobs_on_the_teaching_cluster)

Transfer File:

[https://wiki.gacrc.uga.edu/wiki/Transferring\\_Files#The\\_File\\_Transfer\\_node\\_for\\_the\\_teaching\\_cluster\\_.28txfer.gacrc.uga.edu.29](https://wiki.gacrc.uga.edu/wiki/Transferring_Files#The_File_Transfer_node_for_the_teaching_cluster_.28txfer.gacrc.uga.edu.29)

Sample Job Scripts:

[https://wiki.gacrc.uga.edu/wiki/Sample\\_batch\\_job\\_submission\\_scripts\\_on\\_the\\_teaching\\_cluster](https://wiki.gacrc.uga.edu/wiki/Sample_batch_job_submission_scripts_on_the_teaching_cluster)

Linux Command: [https://wiki.gacrc.uga.edu/wiki/Command\\_List](https://wiki.gacrc.uga.edu/wiki/Command_List)

# GACRC Support

[https://wiki.gacrc.uga.edu/wiki/Getting\\_Help](https://wiki.gacrc.uga.edu/wiki/Getting_Help)

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## ➤ Job Troubleshooting:

Please tell us details of your question or problem, including but not limited to:

- ✓ Your user name
- ✓ Your job ID
- ✓ Your working directory
- ✓ The partition name and command you used to submit the job

## ➤ Software Installation:

- ✓ Specific name and version of the software
- ✓ Download website
- ✓ Supporting package information if have

Please note to make sure the correctness of datasets being used by your jobs!



## GACRC Service Catalog

Georgia Advanced Computing Resource Center (GACRC) service catalog.

If you would like to reach out to GACRC and do not have a UGA MyID, please send an email to [gacrc-help@uga.edu](mailto:gacrc-help@uga.edu), and we will respond promptly.

### Categories (3)



#### Services For Users

General user support, request software installation or update, request training.

#### Services for PIs

For PIs only: Lab registration, user account creation/modification, class account requests, storage quota modifications.

#### For GACRC Staff

For GACRC's internal use only.

#### My Recent Requests

[Class provision on the teaching cluster - phys8601-dlandau](#)

[Class provision on the teaching cluster - bcmb8330 - rjwoods](#)

[Class provision on the teaching cluster - binf8211 - szhao, lm43161](#)

[MATLAB License Request](#)

[Create cider lab group](#)

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## General Support

If you do not have a myid, please mail [gacrc-help@uga.edu](mailto:gacrc-help@uga.edu), and we will respond promptly.

The purpose of this form is to provide a method to report issues and to request help with GACRC systems.

Please use this form for all questions and support needs (e.g. to report issues, to troubleshoot jobs, to request resources or grant writing help, etc). Please do not use this form for software installation requests or lab/user account management, which all have separate forms.

Please refer to the GACRC documentation for information on GACRC resources, how to connect and transfer files, how to run jobs, installed software list, training schedule, and a FAQ.

The link to this documentation is <https://wiki.gacrc.uga.edu>

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