COMMON UNIX COMMANDS LOGGING IN TO THE CLUSTER Your username is (usually) the first part of your northeastern.edu email Com Your password is (always) your northeastern.edu password - From a Terminal Window: ssh username@login.discovery.neu.edu cd ts/username - Using Mobaxterm or Putty:)/file.txt mv username@login.discovery.neu.edu es/course.code/students/username Ср cat OPEN ON DEMAND (OOD) **CONDA COMMANDS** mkd ood.discovery.neu.edu - Load Anaconda Module View, Copy, Move, Upload, Download files module load anaconda3/2022.05 grep - List Conda Environments heac Files conda env list Check Job Status conda info –envs tail Jobs - Create a Conda Environment - General Use Applications under "Courses" conda create –prefix=/path/envname pwc Gaussian - Activate a Conda Environment JupyterLab (Python) source activate /path/envname MATLAB - Remove Unused Packages and Cache man Maestro (Schrodinger) RStudio (R) conda clean –all TRANSFERING DATA USING THE COMMAND: SCP Unix Desktop - Delete an Environment VSCode conda remove -p /path/envname - Transfer 'data.csv" from your laptop to the cluster using the transfer node (xfer) scp data.csv username@xfer.discovery.neu.edu:/courses/course.code/students/username **TROUBLESHOOTING (OOD)** - Transfer 'final.hw.pdf' from the cluster to your laptop - Job moves from in queue to completed scp_username@xfer.discovery.neu.edu:/courses/course.code/students/username/final.hw.pdf_/lap-Check the storage use of /home. top/path Remove conda init statement in your home/username/.bashrc file if present. SBA ING JOBS ++ Move /home/username/.local to /home/username/.local-off - 504 error tive Job Using Srun - Exa Open the OOD dashboard in a "New Incognito Window" /bin/bash-t3:00:00-p courses If incognito works clear your browser cookies #!/bin ob Status - App Sometimes Doesn't Launch #SBA select "Restart Web Server"under the Develop tab username #SBA A Job - "Disk Quota Exceeded" #SBA bid You've exceeded the 75 GB limit in your home. See our documentation under "Best-Practices" #SBA for tips on keeping your /home under quota g With Modules #SBA - "Bad Request" #SBA #SBA vail The browser is trying to load a previously cached page that can no longer be found. bad Paste the address [ood.discovery.neu.edu] in the browser search bar and reload the page. #load emove **Files Including Hidden** GET HELP FROM RESEARCH COMPUTING modu # heres **Storage Usage of /home**

Send an email to rchelp@northeastern.edu Visit https://rc-docs.northeastern.edu/en/latest/index.html for more detailed information on the topics here and more.

USING THE HPC CLUSTER AT NORTHEASTERN UNIVERSITY FOR COURSES

nmand	Function	Example
	list files in	ls /courses/course.code/data
	directory	
	change	cd /courses/course.code/student
	directory	
	move	mv file.text /path/to/move/it/to
	copy	cp /home/username/file /course
	concatenate	cat filename
lir	make direc-	mkdir homeworkdir1
	tory	
)	find pattern	grep "search pattern" file-to-search
b	prints first	head filename
	10 lines	
	prints last 10	tail filename
	lines	
1	print wor-	pwd
	king direc-	
	tory	
l l	manual	man ls

SBATCH SCRIPT TEMPLATE	KUNN
- Example sbatch script for "courses-gpu"	- Interact
	srun –pty
#!/bin/bash	- Check J
#SBATCH –nodes 1	squeue -u
#SBATCH time 6:00:00 #SBATCH iob-name-JobName	- Cancel
#SBATCHpop-fidine_job Name #SBATCHpartition_courses_gp11	scancel jol
#SBATCH –gres=gpu:1	- Workin
#SBATCH – mail-type=ALL	module lis
#SBATCH – mail-user=username@northeastern.edu	module av
	module lo
# load modules if needed	module re
module load modulename	- List All
	ls -lha
# heres where the code runs	- Check S
code that does stuff	d11 -h –ma

du -h –max-depth=1 /home/username