## Cheatography

## Linux Tutorial Cheat Sheet by jkeelan via cheatography.com/55689/cs/14807/

Cluster commands	
qstat	print list of all your jobs
<b>qsub</b> < <i>script</i> >	submit < <i>script&gt;</i> as a job
qlogin	login to an interactive session on the cluster
<b>qdel</b> <job ids=""></job>	delete the jobs ( <i><job ids=""></job></i> can be a pattern)

Browsing files	
cd <destination></destination>	change directory
Is [pattern]	list all files or match pattern
pwd	print current directory
You can return to your home	directory by using <b>cd</b> ~

## Modifying files

rm [pattern]	remove files (-r for recursive)
mv [sources] [destination]	move / rename file(s) or folder(s)
<b>cp</b> [sources] [destination]	copy file(s) (-r to create desination)

#### Modifying directories

mv [sources] [destination]	rename / move directory
mkdir < directory>	create a directory
rmdir < directory>	remove a directory
rm -rf <directory></directory>	remove directory and all subdirectories

### Finding files

findfile -name ''*.txt''	Find all .txt files in the current directory and below and print
locate [pattern]	match files with pattern anywhere in the full path and print

Can combine with | grep. locate may require sudo updatedb from time to time, and won't work on cluster without some modification.

Viewing files	
head [filenames]	print first 10 lines of file
tail [filenames]	print last 10 lines of file
cat [filenames]	concatenate files and print

Task manageme	ent
ps	See all of your active processes
top	Constantly updating list of ordered (by resources) processes
time <command/>	print time taken to complete after command finishes running
kill <pid></pid>	terminate process with id <pid></pid>
Name Expansio	ns
{az} or {1100}	expands to the series e.g a b c d
*	expands to match anything, any number of times
?	Match anything once
\$((2 + 2))	Arithmetic expansion (evaluates to 2)
\$( <command/> )	expands to the result of the command
~	absolute path to home directory
ls *.txt - list all .tx cp *{09} - list file	t files es which end in a number between 0 and 9
Processing stdc	put
<b>awk-F","</b> '{pr: \$ <column numk<="" th=""><th></th></column>	
sort (-n)	sort alphabetically (alphanumerically)
uniq (-c)	print only one instance of repeated lines (with count of lines)
grep (-i) [pattern]	print lines which contain <i>pattern</i> (ignore case)
wc -/	print number of lines
<b>sed</b> / <pattern>/<repla< th=""><th>replace all instances matching cement&gt;/g <pre>cement&gt;</pre></th></repla<></pattern>	replace all instances matching cement>/g <pre>cement&gt;</pre>
To use on a collection of files, all commands would be prefixed by: <b>cat</b> [files]	
Remote Managn	nent

Remote Managment	
<b>ssh</b> <username>@<host></host></username>	login to multi-user machine
<b>scp</b> <username>@<host>:[remote source] <local></local></host></username>	Cope file(s) from < <i>host&gt;</i> to < <i>local&gt;</i> destination.
<b>rsync -t</b> <username>@<host>:[remote source] <local></local></host></username>	only copy updated files from <host> to <local></local></host>
For the multi-user linux machine, <host></host>	should be stem-ssu-linux

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Useful	
chmod +x <file></file>	give executable priveleges to <file></file>
<b>seq</b> < <i>start</i> > < <i>step</i> > < <i>stop</i> >	print sequence of numbers from <i><start></start></i> to <i><stop></stop></i> in increments of <i><step></step></i>
man <command/>	open the manual page for man
more <file></file>	print output in navigateable pages
fdisk -I	list all the connected drives and partitions
<b>mount</b> <partition></partition>	directory will now lead to the partiton (useful for usb storage)

stdout can be piped into more to make long outputs readable.



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