

Linux/bash commands

Session 1 Supplement

Basic Linux/Bash commands

Command	Meaning	Example
whoami	print effective userid	whoami \$USER
ssh	OpenSSH SSH client (remote login program)	ssh yourusername@biowulf.nih.gov
pwd	print current/working directory	pwd /home/\$USER
cd	change directory	cd test/ pwd /home/\$USER/test
mkdir	create new directory	mkdir examples
rmdir	remove empty directories	rmdir examples
~/	shortcut for current user's home folder	cd ~ /home/\$USER
./	shortcut for current directory	cd ./test
../	shortcut to move up a directory (parent)	cd ../

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Command	Meaning	Example
man	format and display on-line manual pages	<code>man ls</code>
ls	list directory contents	<code>ls [options]</code>
top	display Linux tasks	<code>top [-u \$USER][options]</code>
ps	snapshot of current processes	<code>ps [-u \$USER][options]</code>
jobs	display/manage active jobs	<code>jobs [options]</code>
kill	send signal to processes	<code>kill [options]</code>
head	output first n lines of a file (default n = 6)	<code>cat <filename> head</code>
tail	output last n lines of a file (default n = 6)	<code>cat <filename> tail</code>
pipe ()	use of multiple commands; uses output of command as input for the next command	<code>cat <filename> head grep "chr" > newfile.txt</code>

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cp	copy file	cp <filename> /where/to/copy/to
scp	secure copy (remote file copy program)	To helix/biowulf: scp <filename> helix.nih.gov:/path/to/desired/dir
mv	move or rename file	mv <oldfile> <newfile>
rm	remove file or directory	rm <filename>
echo	display a line of text	echo Welcome to the course! Welcome to the course!
cat	concatenate files and print on the standard output	cat <filename1> cat <filename1> <filename2>
wc	print number of lines, words, or bytes in a file	wc <filename> lines words bytes <filename>
wget	non-interactive network downloader	wget [options] <url>

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Command	Meaning	Example
sort	sort lines of text files	<code>sort [options] <filename></code>
uniq	report or filter out repeated lines	<code>uniq [options] <filename></code>
find	search for files and/or directories in directory hierarchy	<code>find [options]</code>
grep	print lines matching a pattern	<code>grep [options] "string" <filename></code>
awk	pattern scanning and processing language	<code>awk [options] 'selection_criteria {action}' input_file > output_file</code>
sed	stream editor for filtering and transforming text	<code>sed [options] <filename></code>
more	view file contents	<code>more [options] <filename></code>
less	view file contents	<code>less [options] <filename></code>