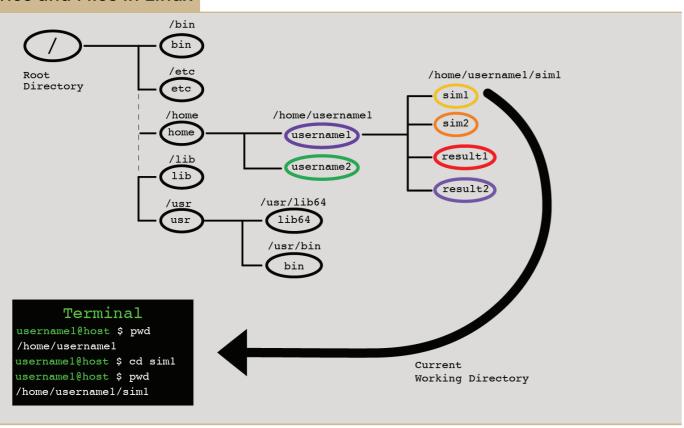
LinuxQuick Reference Card



Directories and Files in Linux



Example files and directories in the Linux operating system. Each circle in the figure shows a directory and its corresponding path displayed above it. To navigate to a specific directory, you need to know which directory you are currently in and the path to the target directory. The commands in the terminal show how a user can navigate to a directory "/home/username1/sim1" starting from her home directory.

Working with Files on Linux

ls	List all files and subdirectories.
pwd	Show the current directory.
cd <u>mydir</u>	Change the current directory to mydir .
mkdir <u>mydir</u>	Create a directory named mydir .
rmdir <u>mydir</u>	Remove the empty directory <u>mydir</u> .
cp <u>myfile1</u> <u>myfile2</u>	Copy the file myfile1 to myfile2 .
mv myfile1 myfile2	Rename the file myfile1 to myfile2 .
mv <u>myfile</u> <u>mydir</u>	Move the file myfile into mydir .
mfilo	Poloto the file C.1
rm <u>myfile</u>	Delete the file myfile .
cat <u>myfile</u>	Display the entire contents of the file myfile .
cat myfile	Display the entire contents of the file myfile .
cat <u>myfile</u> more <u>myfile</u>	Display the entire contents of the file myfile . Display the contents of the file myfile , one page at a time.
cat myfile more myfile geany myfile	Display the entire contents of the file myfile . Display the contents of the file myfile , one page at a time. Edit the file myfile with a simple text editor.

^{*}Underlined words should be replaced with their actual values when running a command, e.g., 'myfile' should be replaced with your file name.

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Other Useful Linux Commands

hostname	Display the name of the system you are currently logged in to.
ps -u <u>myusername</u>	List all programs you are currently running on your login host.
du -sh <u>mydir</u>	Report disk space used by the directory mydir and all its contents.
grep "mytext" myfile	Search for the text "mytext" in the file myfile.
head <u>myfile</u>	Display the first ten lines of the file myfile .
tail <u>myfile</u>	Display the last ten lines of the file myfile .
scp myfile myhost:mydir	Copy myfile to the directory mydir on the remote system myhost .
diff <u>myfile1</u> <u>myfile2</u>	Compare the text files myfile1 and myfile2 and display the lines that differ.
history	Display the previous commands that were run in the terminal.
history man <u>mycommand</u>	Display the previous commands that were run in the terminal. Display the manual page for the command mycommand.
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Output Redirection

<pre>mycmd1 > myoutput.txt</pre>	Save the output from running the command mycmd1 to the file myoutput.txt .
<pre>mycmd1 >> myoutput.txt</pre>	Append the output from the command mycmd1 to the file myoutput.txt . Note that the previous command overwrites the file myoutput.txt , whereas, this command adds the output to the end of the file.
<pre>mycmd1 > myoutput.txt 2> myerror.txt</pre>	Save the output of the command mycmd1 to the file myoutput.txt and save any error messages to the file myerror.txt .
mycmd1 mycmd2	Send the output of command mycmd1 to mycmd2 as input ("pipe"). Pipes can be used to send output of one program as input to another program without creating a temporary file.
head -n 20 <u>myfile1</u> tail -n 10	The first part of the command prints the first 20 lines from the file myfile1 which is then passed to the second part of the command. The second part (tail -n 10) prints the last 10 lines of its input. Effectively, the entire command prints lines 11-20 from the file myfile1 .

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Please include which cluster you are using, your Slurm job ID, applications (or modules) you are using, and any error messages or output you have received.



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