Linux and Bash Command Cheat Sheet: The Basics Getting information
# return your user name  1. 1  1. whoami
# return your user and group id  1. 1  1. id
# return operating system name, username, and other info  1. 1  1. uname -a
# display reference manual for a command  1. 1  1. man top
# get help on a command  1. 1  1. curlhelp
# return the current date and time  1. 1  1. date
Monitoring performance and status  # list selection of or all running processes and their PIDs
1. 1 2. 2  1. ps 2. ps -e  Copied! Executed!
# display resource usage  1. 1  1. top  Copied! Executed!
# list mounted file systems and usage  1. 1  1. df  Copied! Executed!
<pre># copy a file 1. 1 1. cp file.txt new_path/new_name.txt</pre>
Copied! Executed!  # change file name or path  1. 1  1. mv this_file.txt that_path/that_file.txt
Copied! Executed!  # remove a file verbosely  1. 1  1. rm this_old_file.txt -v
Copied! Executed!  # create an empty file, or update existing file's timestamp  1. 1  1. touch a_new_file.txt
Copied! Executed!  # change/modify file permissions to 'execute' for all users  1. 1  1. chmod +x my_script.sh
Copied! Executed!  # get count of lines, words, or characters in file  1. 1 2. 2 3. 3
<pre>1. wc -l table_of_data.csv 2. wc -w my_essay.txt 3. wc -m some_document.txt  Copied! Executed!  # return lines matching a pattern from files matching a filename pattern -</pre>
<pre>case insensitive and whole words only  1. 1  1. grep -iw hello \*.txt  Copied! Executed!</pre>
<pre># return file names with lines matching the pattern 'hello' from files matching a filename pattern  1. 1  1. grep -l hello \*.txt  Copied! Executed!</pre>
Navigating and working with directories  # list files and directories by date, newest last  1. 1
<ul> <li>1. ls -lrt</li> <li>Copied! Executed!</li> <li># find files in directory tree with suffix 'sh'</li> <li>1. 1</li> </ul>
<pre>1. find -name '\*.sh' Copied! Executed! # return present working directory</pre>
<ul> <li>1. pwd</li> <li>Copied! Executed!</li> <li># make a new directory</li> <li>1. 1</li> </ul>
<pre>1. mkdir new_folder Copied! Executed! # change the current directory: up one level, home, or some other path</pre>
<ol> <li>1. 1</li> <li>2. 2</li> <li>3. 3</li> <li>4. 4</li> <li>5. 5</li> <li>6. 6</li> <li>1. cd/</li> <li>2. cd ~ or cd</li> <li>3. cd another directory</li> </ol>
3. cd another_directory 4. 5. `\# remove directory, verbosely` 6. rmdir temp_directory -v  Copied! Executed!  Printing file and string contents
# print file contents  1. 1  1. cat my_shell_script.sh
# print file contents page-by-page  1. 1  1. more ReadMe.txt
# print first N lines of file  1. 1  1. head -10 data_table.csv
# print last N lines of file  1. 1  1. tail -10 data_table.csv
# print string or variable value  1. 1 2. 2
1. echo "I am not a robot" 2. echo "I am \$USERNAME"  Copied! Executed!  Compression and archiving
<pre># archive a set of files  1. 1  1. tar -cvf my_archive.tar.gz file1 file2 file3  Copied! Executed!</pre>
<pre># compress a set of files  1. 1 2. 2  1. zip my_zipped_files.zip file1 file2 2. zip my_zipped_folders.zip directory1 directory2</pre>
# extract files from a compressed zip archive  1. 1 2. 2
1. unzip my_zipped_file.zip 2. unzip my_zipped_file.zip -d extract_to_this_direcory  Copied! Executed!  Performing network operations
<pre># print hostname  1. 1 1. hostname  Copied! Executed!</pre>
# send packets to URL and print response  1. 1
1. ping www.google.com  Copied! Executed!
1. ping www.google.com
1. ping www.google.com  Copied! Executed!  # display or configure system network interfaces  1. 1 2. 2  1. ifconfig 2. ip  Copied! Executed!  # display contents of file at a URL  1. 1
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