Linux Commands

Getting around





Command	Description
cd logs	Move to the logs directory, which is located in the current directory.
cd /logs	Move to the logs directory, which is located in the top-level directory.
cd	Move up one directory.
cd -	Move to your home directory (the "tilde" character is left of the 1 key).
cd -	Move to the directory you were previously in.

Tip - Tab Completion

Use tab completion to type filenames faster. As you're typing a filename (or directory), hit the tab key. If there's only one file that matches what you've typed, the rest of the filename will be filled in. If nothing happens when you hit tab, simply hit tab again to see a list of matches.

Viewing and searching in files

Command	Description
cat data.txt	Display data bit
cat *.txt	Display all files that end with .txt
head data.txt	Display the first 10 lines of data txt.
head -n 20 data.txt	Display the first 20 lines of data bit.
tail data.txt	Display the last 10 lines of data bit.
tail -n 30 data.txt	Display the last 20 lines of data.txt.
tail -F data.txt	Display the last 10 lines of data.txt and continue running, displaying any new lines in the file. Note: Press Ctrl+C to exit.
grep malware data.txt	Display all lines in data txt that contain 'malware'.
grep -v malware data.txt	Display all lines that do not contain 'malware'.
grep 'mal ware' data.txt	To search for pihrases with spaces, use single quotes.
grep -F 1.2.3.4 data.txt	To search for phrases with periods, use -F
grep -c exe data.txt	Display how many lines in data txt contain 'exe' (but don't display them).
grep -F -c 1.2.3.4 *.txt	Display the number of lines with IP 1.2.3.4 in each file that ends in .txt.
tess targe.file	Display large file in less (see right).
less -5 large.file	Display large file in less (see right), and allow for side to side scrolling.

Navigating in less

Key or Command	Description
q	Quit
Up/down arrow	Move up/down one line.
Left/right arrow	Move left/right half of a page. Note: requires less -5
Page up/down	Move up/down one page.
	Go to the first line
6	Go to the last line
•	Go to the last line, and display any new lines (similar to tall -F). Note: Press Ctri+C to exit.
/malware	Search - go to the next line containing the word 'malware.'
/Imalware	Search - go to the next line NOT containing the word 'malware.'
?malware	Search - go to the previous line containing the word 'malware.'
n	Repeat a previous search.
N	Repeat a previous search, but in the opposite direction.

Distribute it all tamathan

Command	Description
(AKA "pipe")	Pass the output of one command to another command. Note: For the "pipe" character, use the key above enter (some key as backslash)
grep malware data.txt tail -n 30	Display the last 30 lines in data txx that contain the word 'malware.'
grep malware data.txt grep blaster	Display limes in data txt that contain "malware" and also contain "blaster."
cat data txt sort	Display data txt, sorted alphabetically.
cat data.txt sort uniq	Display data txt, sorted alphabetically, with duplicates removed.
cat data.txt sort uniq -c	Sort, remove duplicates, and display the number of times each line occurred.
cat data.txt sort uniq -c sort -n	Sort, remove duplicates, and display the most frequent lines.
- cat data.txt sort uniq -c sort -n tail -n 20	Sort, remove duplicates, and display the 20 most frequent lines.
cat conn.log bro-cut id.resp_h proto service	Only display the id.resp_h, proto and service columns of the conn Bro log.
cat http.log bro-cut -d ts method host uri	Only display the timestamp, method, host and unicolumns, and convert the timestamp to human-readable format.

Tip - Compressed Files

Files that end in .ez are compressed, and might require some different commands:

Command	Modification for .gz
cat or grep	Use zcat or zgrep.
head or tail	Use zcat head or zcat tail

Tip - Documentation

Linux commands are all well documented. To view the documentation:

- Run the command with -help (e.g. tail -help) to see the options.
- Use the manual pages for more detail (e.g. man tail). Note: these open in less.

Tip - Working With Big Files

Commands take longer to run on larger files. Some things to keep in mind are:

- Use grep -F instead of plain grep.
- For viewing the file, use less instead of cat.
- Try to use grep as early as possible, so if you pipe to other tools, there's less data to crumch.

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Ip User Guide And Commands

Bradley Dyck Kliewer, Henry W. Kliewer

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author's Internetworking Handbook that provides network managers a single source for all the major multivendor software commands File structures of UNIX MVS DEC OS 40 etc and all the most frequently used commands included in this one stop indispensable reference

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