10/12/24, 9:48 a.m.

about:blank

Getting information

Module 2 Cheat Sheet - Introduction to Linux Commands

Return your user name:

Return your user and group id:

whoami

Return operating system name, username, and other info:

uname -a Display reference manual for a command:

man top List available man pages, including a brief description for each command:

man -k . Get help on any command (for eg: curl):

This provides a brief overview of the curl command's usage and options.

Return the current date and time:

Navigating and working with directories

List files and directories by date, newest to last:

ls -lrt

mkdir new_folder

cd ../

rmdir temp_directory -v

top

Creating, copying, moving, and deleting files:

cp file.txt new_path/new_name.txt

Change file name or path:

Remove a file verbosely:

rm this_old_file.txt -v

Working with file permissions

Change/modify file permissions to 'execute' only for you, the current user:

chmod u+x my_file.txt

chmod go-r

Displaying file and string contents

Display file contents: cat my_shell_script.sh

more ReadMe.txt Display first 10 lines of file:

Words:

Some frequently used options for grep: Option

grep -iw hello a_bunch_of_hellos.txt

Merge two or more files line-by-line, aligned as columns: Suppose you have three files containing the first and last names of your customers, plus their phone numbers.

Extract lines containing the pattern "hello" from all files in the current directory ending in .txt:

Use a comma as a delimiter instead of the default Tab delimiter: paste -d "," first_name.txt last_name.text phone_number.txt

Use the cut command to extract a column from a table-like file: Suppose you have a text file whos rows consist of first and last names of customers, delimited by a comma.

Description

Print line numbers along with matching lines

Ignore the case of the text while matching

Print all lines which do not contain the pattern

Match only if the pattern matches whole words

Get the count of matching lines

Extract first names, line-by-line: cut -d "," -f 1 names.csv

cut -b 2-5 my_text_file.txt

Extract the characters (bytes) from each line of a file, starting from the 10th byte to the end of the line: cut -b 10- my_text_file.txt

Compress a set of files: zip my_zipped_files.zip file1 file2
zip my_zipped_folders.zip directory1 directory2

Extract files from a compressed zip archive:

Working with networking commands

about:blank

Find files in directory tree that end in .sh:

find -name \'*.sh\' Return path to present working directory:

Make a new directory: Change the current directory: Up one level:

> cd ~` or `cd To some other directory: cd path_to_directory Remove directory verbosely:

Monitoring system performance and status List selection of/all running processes and their PIDs:

Display resource usage: List mounted file systems and usage:

Create an empty file or update existing file's timestamp: touch a_new_file.txt

mv this_file.txt that_path/that_file.txt

Copy a file:

Change/modify file permissions to 'execute' for all users: chmod +x my_script.sh

Remove 'read' permissions from group and other users:

Display file contents page-by-page:

Display last 10 lines of file:

Sorting lines and dropping duplicates: Sort and display lines of file alphanumerically: sort text_file.txt In reverse order:

uniq list_with_duplicated_lines.txt Displaying basic stats:

wc -w my_essay.txt **Characters:** wc -m some_document.txt Extracting lines of text containing a pattern:

Extract lines containing the word "hello", case insensitive and whole words only:

grep -l hello *.txt

Use paste to align file contents into a Tab-delimited table, one row for each customer: paste first_name.txt last_name.text phone_number.txt

Extract the second to fifth characters (bytes) from each line of a file:

Compression and archiving Archive a set of files:

unzip my_zipped_file.zip unzip my_zipped_file.zip -d extract_to_this_direcory

tar -cvf my_archive.tar.gz file1 file2 file3

head -10 data_table.csv tail -10 data_table.csv Display string or variable value: echo "I am not a robot" echo "I am \$USERNAME" Basic text wrangling

sort -r text_file.txt Drop consecutive duplicated lines and display result:

Display the count of lines, words, or characters in a file: wc -l table_of_data.csv

10/12/24, 9:48 a.m.

Print hostname:

about:blank

hostname

Send packets to URL and print respo

Send packets to URL and print response:

ping www.google.com

Display or configure system network interfaces:

ifconfig ip

Display contents of file at a URL:

curl <url>

Download file from a URL:

wget <url>

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