## **Module 2 Cheat Sheet - Introduction to Linux Commands**

# **Getting information** Return your user name: whoami Return your user and group id: id 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):

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curl --help

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#### To home:

cd ~` or `cd

To some other directory: cd path\_to\_directory

Remove directory verbosely:

rmdir temp\_directory -v

### Monitoring system performance and status

List selection of/all running processes and their PIDs:

ps

ps -e

Display resource usage:

top

List mounted file systems and usage:

#### Creating, copying, moving, and deleting files:

Create an empty file or update existing file's timestamp:

touch a\_new\_file.txt

Copy a file:

cp file.txt new\_path/new\_name.txt

#### Change file name or path:

mv this\_file.txt that\_path/that\_file.txt

#### Remove a file verbosely:

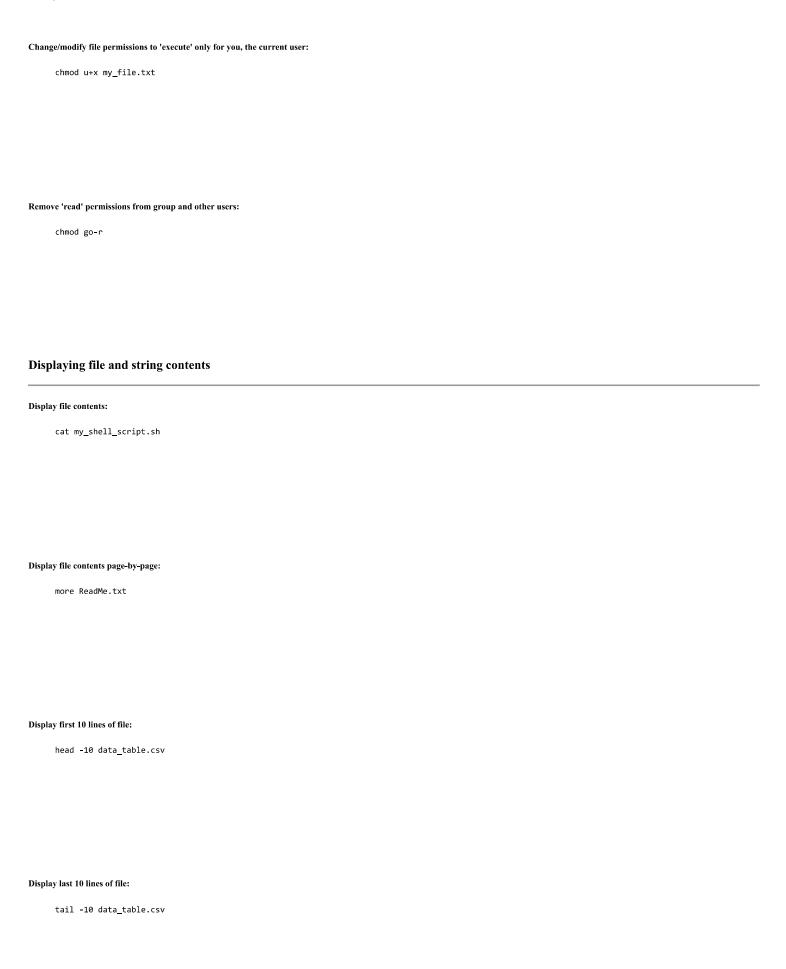
 $rm this\_old\_file.txt -v$ 

#### Working with file permissions

Change/modify file permissions to 'execute' for all users:

chmod +x my\_script.sh

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In reverse order:

sort -r text\_file.txt

Drop consecutive duplicated lines and display result:

uniq list\_with\_duplicated\_lines.txt

Displaying basic stats:

Display the count of lines, words, or characters in a file:

Lines:

wc -l table\_of\_data.csv

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```
wc -w my_essay.txt
```

#### **Characters:**

```
wc -m some_document.txt
```

#### Extracting lines of text containing a pattern:

Some frequently used options for grep:

Option	Description
-n	Print line numbers along with matching lines
-c	Get the count of matching lines
-i	Ignore the case of the text while matching
-v	Print all lines which do not contain the pattern
-w	Match only if the pattern matches whole words

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

```
grep -iw hello a_bunch_of_hellos.txt
```

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

```
grep -l hello *.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.

Use paste to align file contents into a Tab-delimited table, one row for each customer:

```
paste first_name.txt last_name.txt phone_number.txt
```

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Use a comma as a delimiter instead of the default Tab delimiter:

paste -d "," first\_name.txt last\_name.txt 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.

Extract first names, line-by-line:

cut -d "," -f 1 names.csv

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

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

#### Compression and archiving

Archive a set of files:

tar -cvf my\_archive.tar.gz file1 file2 file3

Compress a set of files:



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Download file from a URL:

wget <url>

#### Authors

Jeff Grossman Sam Propupchuk

#### **Other Contributors**

Rav Ahuja



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