Basic File Management

cp file name [-r creates destination]	
mv Linux Command Cheatsheet to Linux	| is also for renaming
add -i, -n or -v	| ask first, no overwrite, show result
cat filename	| opens the file to read
less	| breaks results down into pages
mkdir\rm directory	
rm	
cd	
touch	| creates a new file

Listing Files

-h	| human readable
-d	| lists the details
-R	| recursive [all sub-directories]
-s	| sorts by name
-t	| sorts by time

Working with File Permissions

chmod 777 [name of file]	| assign read, write & execute to all users
chmod 755 [name of file]	| read, write & execute for owner - read & execute for all other users
chmod 766 [name of file]	| full permission to owner - read and write to others
chown	| change ownership
	[OPTIONS] [OWNER] FILE

File Compression

gzip	| common compression tool
gunzip	

File Archiving

tar –cvf mybackups/udev.tar /etc/udev

-c option tells the tar command to create a tar file.
-v option stands for "verbose", which instructs the tar command to demonstrate what it is doing.
-f option is used to specify the name of the tar file.

Review Archive Contents

tar –tvf mybackups/udev.tar

Create a Compressed Archive

tar –zcvf mybackups/udev.tar.gz /etc/udev	| create an archive
tar –xvf udev.tar.gz	| extract an archive
tar -rvf udev.tar /etc/hosts	| add a file to existing archive

File type descriptors

Symbol	File Type	Description
d	| directory	| A file used to store other files.
-	| regular file	| Includes readable files, images files, binary files, and compressed files.
l	| symbolic link	| Points to another file.
s	| socket	| Allows for communication between processes.
p	| pipe	| Allows for communication between processes.
b	| block file	| Used to communicate with hardware.
c	| character file	| Used to communicate with hardware.

File Type

- rw-r--r-- 1 root root 15322 Dec 10 21:33 alternatives.log

d rwxr-xr-x 1 root root 4096 Jul 19 06:52 apt

Permissions

d **rwxr-xr-x** 2 root root 4096 Jul 19 06:51 journal

Hard Link Count

-rw-r----- **1** syslog adm 371 Dec 15 16:38 auth.log

drwxr-xr-x **2** root root 4096 Jul 19 06:51 journal

User Owner

-rw-r----- 1 **syslog adm** 197 Dec 15 16:38 cron.log

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Group Owner

-rw-rw-r-- 1 root **utmp** 292584 Dec 15 16:38 lastlog

Timestamp

-rw-rw---- 1 root utmp 0 **May 26 2018** btmp

File Size

-rw-r----- 1 syslog adm **14185** Dec 15 16:38 syslog

Displays the size of the file in bytes.

File Name

-rw-r--r-- 1 root root 35330 May 26 2018 **bootstrap.log**

In the case of symbolic links, the link name is displayed along with an arrow and the pathname of the original file.

lrwxrwxrwx. 1 root root 22 Nov 6 2018 /etc/grub.conf -> ../boot/grub/grub.conf