Cheatography

Linux Commands Cheat Sheet Cheat Sheet
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File Commands

ls	- list files in the directory
ls -al	- list long formatted files with hidden files
cd	- return to home directory
pwd	- display current working directory
touch file	- create or update file
mkdir dir	- create a new directory dir
rm file	- remove file
nano file	- edit the file using Nano's editor
mv file1 file2/dir	- rename file1 to file2 or move file1 to dir
rmdir dir	- remove empty directory dir
rm -r dir	- remove directory dir
cp file1 file2	- copy file1 to file2
cp -r dir1 dir2	- copy directory dir1 to dir2 and create dir2 if it does not exist

File Permissions

chmod file	- change file permission
chmod u-w file	- remove the writable permission from file to user
chmod 777 file	- give read, write, execute permission to all
Operator for chmod	
+	add the specified modes
-	Remove the specified modes from file or dir
=	Set the specified modes
chown user:group file	- change the ownership of file

Users and Groups

groupadd group	- add a new group
useradd -g group nUser	- add a new user to group
usermod -g group eUser	- add an existing user to group
lid -g group	- list all the users in the group

All the above commands require superuser privileges.

Network

ping host	- ping host
wget file	- download file

System Info

whoami	- display the login username
uname -a	- display all the system information
whereis app	- show possible locations of app
which app	- shows the full path of the app
df -h	- show file system disk space usage with human-readable storage size
du -d0 -h dir	- display the directory space usage without displaying subdirectories

Process Management

ps	- display current active processes
top	- display all running processes
kill pid	- kill a process by ID
killall procname	- kill a process by a name

Compression

tar -cvf file.tar files/dir	- create a tar file to archive the files/dir and display the progress in the terminal.
tar -xzvf file.tar.gz -C dir	- extract a tar using Gzip to directory dir
tar -czf file.gz file.tar	- compress the file.tar to file.gz using Gzip
gzip file	- compress file and rename it to file.gz
gzip -d file.gz	- decompress file.gz back to file

Searching

grep *pattern* files	- search for pattern in files, * denotes all the files
grep -r *pattern* dir	- search for the pattern in dir
grep -i *pattern* file	- ignore the case and search for the pattern
command | grep pattern	- search for the pattern in the output of command
locate file	- find all instances of file by name

A *regular expression* is used to describes a particular search *pattern*.

Redirection

> file	- output operator to overwrite the file
>> file	- append operator to append the text at the end of the file
|	- pipe operator to take the output from the preceding command to be the input of the following command