

### File Commands

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

### File Permissions

<b>chmod file</b>	- change file permission
<b>chmod u-w file</b>	- remove the writable permission from file to user
<b>chmod 777 file</b>	- 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

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

All the above commands require superuser privileges.

### System Info

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

### Process Management

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

### Compression

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

### Searching

<b>grep pattern files</b>	- search for pattern in files, * denotes all the files
<b>grep -r pattern dir</b>	- search for the pattern in dir
<b>grep -i pattern file</b>	- ignore the case and search for the pattern
<b>command   grep pattern</b>	- search for the pattern in the output of command
<b>locate file</b>	- 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



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