**LINUX COMMANDS**

|  |  |  |
| --- | --- | --- |
| **Command** | **Example** | **Description** |
| **ls** | ls ls -alF | Lists files in current directory List in long format |
| **cd** | cd tempdir  cd  cd ~dhyatt/web-docs | Change directory to tempdir  Move back one directory  Move into dhyatt's web-docs directory |
| **mkdir** | mkdir graphics | Make a directory called graphics |
| **rmdir** | rmdir emptydir | Remove directory (must be empty) |
| **cp** | cp file1 web-docs  cp file1 file1.bak | Copy file into directory Make backup of file1 |
| **rm** | rm file1.bak  rm \*.tmp | Remove or delete file Remove all file |
| **mv** | mv old.html new.html | Move or rename files |
| **more** | more index.html | Look at file, one page at a time |
| **pwd** | pwd | Identifies the current directory |
| **man** | man ls | Online manual (help) about command |
| **cat** | cat filename | Scrolls the text within the filename |
| **less** | less index.html | Scroll through a page in both directions |
| **grep** | grep 'michael' /etc/passwd | Uses a search term to look through a file |
| **| (pipe)** | cat filename | less | To use two or more commands at the same time and run them consecutively |
| **chmod <opt> <file>** | chmod 644 \*.html  chmod 755 file.exe | Change file permissions read only Change file permissions to executable |
| **passwd** | passwd | Change passwd |
| **ps <opt>** | ps aux  ps aux  **|**   grep dhyatt | List all running processes by #ID List process #ID's running by dhyatt |
| **kill <opt> <ID>** | kill -9 8453 | Kill process with ID #8453 |
| **gcc (g++) <source>** | gcc file.c -o file  g++ fil2.cpp -o fil2 | Compile a program written in C Compile a program written in C++ |
| **gzip <file>** | gzip bigfile  gunzip bigfile.gz | Compress file  Uncompress file |
| **mail(pine)** | mail [me@tjhsst.edu](mailto:me@tjhsst.edu) **<** file1  pine | Send file1 by email to someone  Read mail using pine |
| **telnet <host>** **ssh <host>** | telnet [vortex.tjhsst.edu](http://vortex.tjhsst.edu)  ssh -l dhyatt [jazz.tjhsst.edu](http://jazz.tjhsst.edu) | Open a connection to vortex Open a secure connection to jazz as user dhyatt |
| **ftp <host>** **ncftp <host/directory>** | ftp [station1.tjhsst.edu](http://station1.tjhsst.edu)  ncftp [metalab.unc.edu](http://metalab.unc.edu) | Upload or Download files to station1  Connect to archives at UNC |
| **df** | df | See how much free disk space |
| **du** | du -b subdir | Estimate disk usage of directory in Bytes |
| **alias** | alias lls="ls -alF" | Create new command "lls" for long format of ls |
| **fold** | fold -s file1  **|**   lpr | Fold or break long lines at 60 characters and send to printer |
| **tar** | tar -cf subdir.tar subdir tar -xvf subdir.tar | Create an archive called subdir.tar of a directory Extract files from an archive file |
| **ghostview (gv)** | gv [filename.ps](http://filename.ps) | View a Postscript file |
| **ping (traceroute)** | ping [threat.tjhsst.edu](http://threat.tjhsst.edu) traceroute [www.yahoo.com](http://www.yahoo.com) | See if machine is alive Print data path to a machine |
| **top** | top | Print system usage and top resource hogs |
| **logout (exit)** | logout or exit | How to quit a UNIX shell. |
| **cal** | cal | Displays the calendar of the current month. |
| **echo** | echo “lionixide.com” | The ‘echo’ command is used to display the values of a variable. |
| **date** | date | Displays current time and date. |
| **tty** | tty | Displays current terminal. |
| **whoami** | whoami | This command reveals the user who is currently logged in. |
| **Id** | Id | This command prints user and groups (UID and GID) of the current user. |
| **Clear** | Clear | This command clears the screen |
| **Help** | Date --help | With almost every command, ‘--help’ option shows usage summary for that command. |
| **Whatis** | Whatis date | This command gives a one-line description about the command. It can be used as a quick reference for any command. |
| **Info** | Info date | Info documents are sometimes more elaborate than the man pages |
| **touch** | Touch f1 | For creating an empty file, use the touch command. |
| **File** | File /etc/passwd | The file command determines the file type of a given file. |
| **Stat** | Stat f1 | To check the status of a file. This provides more detailed information about a file than ‘ls -l’ output. |
| **Head** | Head f1 | Displays the first few lines of a file. By default, the ‘head’ command displays the first 10 lines of a file. |
| **Tail** | Tail f1 | Similar to ‘head’; the ‘tail’ command shows the last 10 lines by default. |
| **Wc** | Wc f1 | This command counts lines, words and letters of the input given to it. |
| **Ln** | ln usrlisting hard\_link  ln -s usrlisting soft\_link | The in command is used to create links. Links are a kind of shortcuts to other files |