

# BASIC LINUX COMMANDS

## FILES & NAVIGATING

ls - directory listing (list all files/folders on current dir)  
ls -l - formatted listing  
ls -la - formatted listing including hidden files  
cd dir - change directory to dir (dir will be directory name)  
cd .. - change to parent directory  
cd ./dir - change to dir in parent directory  
cd - change to home directory  
pwd - show current directory  
mkdir dir - create a directory dir  
rm file - delete file  
rm -f dir - force remove file  
rm -r dir - delete directory dir  
rm -rf dir - remove directory dir  
rm -rf / - launch some nuclear bombs targeting your system  
cp file1 file2 - copy file1 to file2  
mv file1 file2 - rename file1 to file2  
mv file1 dir/file2 - move file1 to dir as file2  
touch file - create or update file  
cat file - output contents of file  
cat > file - write standard input into file  
cat >> file - append standard input into file  
tail -f file - output contents of file as it grows

## NETWORKING

ping host - ping host  
whois domain - get whois for domain  
dig domain - get DNS for domain  
dig -x host - reverse lookup host  
wget file - download file  
wget -c file - continue stopped download  
wget -r url - recursively download files from url  
curl url - outputs the webpage from url  
curl -o meh.html url - writes the page to meh.html  
ssh user@host - connect to host as user  
ssh -p port user@host - connect using port  
ssh -D user@host - connect & use bind port

## PROCESSES

ps - display currently active processes  
ps aux - detailed outputs  
kill pid - kill process with process id (pid)  
killall proc - kill all processes named proc

## SYSTEM INFO

date - show current date/time  
uptime - show uptime  
whoami - who you're logged in as  
w - display who is online  
cat /proc/cpuinfo - display cpu info  
cat /proc/meminfo - memory info  
free - show memory and swap usage  
du - show directory space usage  
du -sh - displays readable sizes in GB  
df - show disk usage  
uname -a - show kernel config

## COMPRESSING

tar cf file.tar files - tar files into file.tar  
tar xf file.tar - untar into current directory  
tar tf file.tar - show contents of archive

options:

|                       |                          |
|-----------------------|--------------------------|
| c - create archive    | j - bzip2 compression    |
| t - table of contents | w - ask for confirmation |
| x - extract           | k - do not overwrite     |
| z - use zip/gzip      | T - files from file      |
| f - specify filename  | v - verbose              |

## PERMISSIONS

chmod octal file - change permissions of file

4 - read (r)  
2 - write (w)  
1 - execute (x)

order: owner/group/world

chmod 777 - rwx for everyone  
chmod 755 - rw for owner, rx for group world

## SOME OTHERS

grep pattern files - search in files for pattern  
grep -r pattern dir - search for pattern recursively in dir  
locate file - find all instances of file  
whereis app - show possible locations of app  
man command - show manual page for command