

Some Basic Linux Commands

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FILE COMMANDS

- **ls** = directory listing
- **ls -al** = formatted listing with hidden files
- **cd dir** = change directory to dir
- **pwd** = show current directory
- **mkdir dir** = create directory dir
- **rm file** = delete file
- **rm -r dir** = delete directory dir
- **rm -f file** = force remove file
- **rm -rf dir** = force remove directory
- **cp file1 file2** = copy file1 to file2
- **mv file1 file2** = rename file1 to file2
- **ln -s file link** = create symbolic link 'link' to file
- **touch file** = create or update file
- **cat > file** = place standard input into file
- **more file** = output the contents of the file
- **less file** = output the contents of the file
- **head file** = output first 10 lines of file
- **tail file** = output last 10 lines of file
- **tail -f file** = output contents of file as it grows



NETWORK

- **ping host** = ping host '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



SYSTEM INFO

- **date** = show current date/time
- **cal** = show this month's calendar
- **uptime** = show uptime
- **w** = display who is online
- **whoami** = who are you logged in as
- **uname -a** = show kernel config
- **cat /proc/cpuinfo** = cpu info
- **cat /proc/meminfo** = memory info
- **man command** = show manual for command
- **df** = show disk usage
- **du** = show directory space usage
- **du -sh** = human readable size in GB
- **free** = show memory & swap usage
- **whereis app** = show possible locations of app
- **which app** = show which app will be run by default



PROCESS MANAGEMENT

- **ps** = display currently active processes
- **ps aux** = ps with a lot of detail
- **kill pid** = kill process with pid 'pid'
- **killall proc** = kill all processes named proc
- **bg** = lists stopped/background jobs
- **fg** = bring most recent job to foreground
- **fg n** = brings job n to foreground



FILE PERMISSIONS

- **chmod octal file** = change permission of file
- (4:read / 2:write / 1:execute)
- Order: owner/group/world
- Eg: **chmod 755 file** = read write for owner, read execute for group/world



SEARCHING

- **grep pattern files** = search for pattern in files
- **grep -r pattern dir** = search recursively for pattern in dir
- **command | grep pattern** = search for pattern in the output of command
- **locate file** = find all instances of file



COMPRESSION

- **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

SSH

- **ssh user@host** = connect to host
- **ssh -p port user@host** = connect using port p
- **ssh -D port user@host** = connect & use bind port



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