



# The Top Banana Linux Cheat Sheet

## [ General Edition ]



### Helpful Links #1:

<http://www.snc.edu/compsci/linux/basic.html> | <http://mindprod.com/linux.html> | <http://www.linuxnovice.org/documents/bootcamp.txt>

### Samba (www.samba.org)

Samba configuration file:  
/etc/samba/smb.conf Redhat location

To mount the 'public' directory of the Win98 machine 'gromit' on the local machines mount point /mnt/pub  
# smbmount //gromit/public /mnt/pub

Add a new samba user:  
# smbpasswd -a <username> <password>

### Files

# ls -l List files in current directory  
# ls -la List hidden files  
# ls -l /usr List files in directory /usr

# ln -s dir1 dir2 Create link dir1->dir2

# cp <src> <dest> Copy a file  
# rm myfile Delete 'myfile'  
# mv myfile /abc Move 'myfile'  
# mv <src> <dest> Rename 'src' to 'dest'

# find / -name file Find 'file', start at /  
# find / -iname file Ignore case

# diff file1 file2 Compare two files

# dd Copy disk image

# dump Backup file system  
# restore Restore a dump backup

# sync Flush disk buffers  
# touch <file> Change file timestamp

### Compressed Files

To uncompress 'mylib.tar.gz'  
# gunzip -d mylib.tar.gz

Which creates 'mylib.tar', and then  
# tar xpvf mylib.tar

If tar'ed & bzip2'ed, unpack using:  
# bzcat file.tar.bz2 | tar xv  
Or use:  
# tar xjfv file.tar.bz2

If tar'ed & gzip'ed, unpack using:  
# tar xvzf file.tar.gz  
# tar xvzf file.tgz

Also  
# tar xvf filename.tar Unpack archive  
# tar tvf filename.tar View only  
# tar cvf new.tar dirname Create archive

Zip and rar files:  
# zip file.zip Zip a file  
# unzip file.zip Unzip a file  
# rar file.rar Create a rar archive  
# unrar file.rar Unpack a rar archive

### Processes

# ps -A Shows all processes  
# pstree Displays process trees  
# top Process resource usage

Shows processes owned by specific user  
# ps aux | grep username

Shows output of running job (exit with Ctrl-C)  
# tail -f opfilename

# jobs List current jobs  
# kill -9 pid Kill by process ID  
# kill -9 %job# Kill by job number

Start a process at a higher than normal priority  
# nice -l <appname>  
# renice 1 <pid> Lower a processes priority

### Configuration

# sax Configure XFree86 v3  
# sax2 Configure XFree86 v4  
# mouseconfig Mouse setup  
# kbdconfig Keyboard setup

### Loadable Kernel Modules

# lsmod Lists all loaded modules  
# insmod mymod.o Loads 'mymod.o'  
# rmmod mymod Unloads 'mymod.o'  
# depmod mymod.o Creates dependency list  
# modprobe mymod.o Use dep list to load module

### Viewing Files

# cat myfile Displays file  
# more myfile 1 screen at a time  
# less myfile Displays using vi  
# head myfile Displays file head  
# tail myfile Displays file tail  
# wc -l myfile Line count of file

### File Permissions

Change file permissions:  
# chmod 777 myfile Owner/Group/Others  
rwx rwx rwx

Change a files user & group ownership:  
# chown <username> <filename>

### Directories

# mkdir dir1 Create directory 'dir1'  
# rmdir dir1 Remove directory 'dir1'  
# pwd Present working directory

Change directory...  
# cd /dir1/dir2 using Absolute path  
# cd ../dir1 using Relative path  
# cd ~ to Home directory

Delete directory & contents recursively  
# rm -rdf dir

### RPM

# rpm -i file.rpm Install an RPM  
# rpm -q -a | less List of packages  
# rpm -V file.rpm Package integrity  
# rpm -e package\_name Uninstall package

### Drives

# hdparm Get/Set hard disk parameters  
# mount /mnt/floppy Mount floppy drive  
# umount /mnt/floppy Unmount floppy drive  
# fdformat /dev/fd0 Low level format floppy

# mke2fs /dev/fd0 Format with ext2  
# mformat /dev/fd0 Format with FAT  
# eject Eject CD-ROM tray

# kdiskfree GUI mount utility

Drive space  
# df Shows disk space usage  
# du -s /mydir Space used by directory  
# fdisk -l Disk/partition information  
# fsck /mnt/remote Check file system  
# e2fsck Check ext2 file system

### System

# dmesg Shows all kernel messages  
# dmesg -c Clears kernel messages

# uname -a Display basic system info  
# sysreport Create System report  
# uptime Time since reboot

View reboot log entries in the file /var/log/wtmp

# last reboot  
# reboot Reboot system  
# halt Halt system  
# shutdown -h now Turn off system

### Change Run Level

# telinit x  
x = 1 Single user  
x = 3 Multi user  
x = 5 Multi user (graphical login)

### Printing

# lpr Add file to print queue  
# lpq Display print queue  
# lpc Line printer control  
# printtool Graphical printer setup  
# cp file /dev/lp0 Send file to printer

### Text Search

# grep 'abc' myfile Search for word 'abc'  
# grep -I abc myfile Case insensitive search  
# grep "I am" myfile Search for phrase "I am"  
# grep '\$' myfile Search  
# grep "\$USER:" myfile Search  
# grep -r 'abc' \*.txt Recursive search  
# fgrep Search

### Text Editors

# pico myfile.txt Simple editor  
# kate myfile.txt Programmers file editor  
# gedit myfile.txt Gnome text editor  
# kedit myfile.txt KDE text editor  
# emacs  
# vi

### Help

# man [command] Show man pages  
# info [command] View info pages  
# command --help Commands own help  
# whatis [command] Brief command info  
# apropos keyword Search whatis DB for string

### File Conversion

# file filename Finds file type  
# ps2png file.ps file.png Convert ps to png

**Helpful Links #2:**

[www.linuxhq.com/guides/GS/gs.html](http://www.linuxhq.com/guides/GS/gs.html) | <http://tldp.org> | <http://www.dsl.org/cookbook> | <http://www.linux.org> | <http://www.linuxhelp.net>

```
# ps2gif file.ps file.gif      Convert ps to gif
# nenscript                    Convert txt to ps
```

**File Viewers**

```
# gv file.ps                  Run GhostView
# xdvi file.dvi              Run DVI viewer
# kuickshow
```

**Network Utilities**

```
# ifconfig                  Shows network interface
# ifup -o debug eth0       Run interface script
# route                    Shows routing table
# hostname -i              Shows IP address
# cat /proc/net/arp        View ARP cache
# dig                      DNS lookup utility
# nslookup                 Name server lookup
# netstat                  Network connections
# tcpdump                 Dump network packets
# traceroute              Print packet route
# ping                    Ping utility
# ypwhich                  Print name of NIS server
```

**Cron System**

```
# kcron                    KDE Task Scheduler
# crontab -e              Edit personal crontab file
# crontab -l              List content of crontab file
```

Edit / list crontab file for another user:

```
# crontab -u [username] -e
# crontab -u [username] -l
```

```
# at                      Queue job for execution
# atq                    Examine job queue
# atrm                    Remove job from queue
```

**Login**

```
# login                    Sign in and switch user
# logout                  Sign out current user
# passwd                  Change password
# whoami                  Show current user logged in
# su                      Change to root
# su john                 Change to user 'john'
# exit                    Change back to previous user
```

**Memory Usage**

```
# free                    Shows RAM usage
# vmstat                  Shows virtual memory
# cat /proc/meminfo      Shows memory usage
```

**Services**

Configuring services:

```
# ntsysv                  Redhat's service manager
```

Or at the command line (RedHat):

```
# chkconfig --list       List all services
# chkconfig -add <name> Add a service
```

```
# service -status-all   Status of all services
# service <name> start   Start a service
# service <name> stop    Stop a service
# service <name> restart Restart a service
```

**File Management & Location**

```
# mc                      Midnight Commander
# nautilus                Nautilus
# konqueror               KDE file manager
```

```
# whereis <cmd>          Locate binary, src & man files
# where <cmd>            Display executables path
# updatedb                Create file location database
# locate <file>          Display location of file
```

**Console**

```
# clear                    Clear screen
# ad<tab><tab>             Auto complete command
# exit                     Close console
#[alt]+F1 - F7           Swtch to console 1-7
```

**Serial Comms**

```
/dev/ttyS0                Equivalent of COM1
/dev/ttyS1                Equivalent of COM2
# minicom                 Console Comms app
# mseyon                  XWindows Comms app
```

Dialers / Modem Management:

```
# rp3                     Redhat dialer
# wvdial                  Console dialer
# gnomeppp                Gnome dialer
# kppp                    KDE dialer
# kpppload                KDE PPP load monitor
# xisp                     X Windows dialer
```

**Hardware**

Information on reported interrupts:

```
# cat /proc/interrupts
# cat /proc/stat
```

```
# cat /proc/pci           Info from PCI probe
# cat /proc/ioports       Info on IO ports
# cat /proc/cpuinfo       Capabilities of CPU
# cat /proc/devices       Device numbers
# lsusb                   List USB devices
# lspci                   List PCI devices
# kudzu                    RH hardware manager
```

**User & Group Administration**

```
# useradd                 Add a user
# userdel                 Delete a user
# usermod                 Modify user details
# passwd                  Change root password
```

```
# passwd -l <username>   Lock an account
# passwd -u <username>   Unlock an account
```

```
# groups                  Displays a users groups
# groupadd                Add a new group
# groupdel                Delete a group
# kuser                   KDE user manager
# last                    Users login history
# who                     Shows users logged in
```

**OpenSSH**

Open a secure shell on a remote machine

```
# ssh user@machine
```

Open a secure shell as current user

```
# ssh machine
```

Run a batch of commands on a remote machine

```
# ssh machine 'cd ~; pwd;'
```

Copy 'myfile.txt' to a remote machine

```
# scp myfile.txt machine:
```

Perform copy as a different user

```
# scp myfile.txt user@machine:
```

```
# sftp                    Secure File Transfer
```

**KDE Desktop (www.kde.org)**

```
/opt/kde                  KDE directory
```

Install KDE theme's from [www.themes.org](http://www.themes.org)

```
# kthememgr              Theme manager
# kpm                    Process manager
# kpackage                RPM package management
# kfm                     File manager
# kfind                   File locator
# konssole                X Terminal
# ksnapshot               Screen capture utility
# kcalc                   Scientific calculator
# khxeddit                Simple Hex editor
# kwmcon                  Communications tool
```

**Gnome Desktop (www.gnome.org)**

```
/usr/bin                  Gnome apps directory
```

Install Gnome theme's from [gtk.themes.org](http://gtk.themes.org)

```
# gtksamba                Configure Samba
# gnomba                  Samba browser
# grpm                    Redhat RPM manager
# gfde                    File manager
# gpasswd                 Password manager
# ghex                    Hex editor
# gnu sniff                Network packet sniffer
```

**User Basics**

```
# set                      Change environment variables
# alias                    Create a command alias
# export                  Change
# chsh                     Change current shell
```

```
# date                    Displays the date & time
```

```
# finger                   Lookup user info
```

**X Windows (www.xfree86.org)**

```
/usr/bin                  X apps directory
/etc/X11/XF86Config       X11 config file (Redhat)
```

```
# startx                  Start X Windows
# xf86config              Primitive X configuration
# xconfigurator           Console mode X configuration
# xf86setup                X configuration (runs in X)
# xdpinfo                  Xserver information
# xlock                    Locks X Windows
```

```
[ctrl]+[alt]+F1         Switches to virtual terminal 1
```

**LDAP**

```
# ldapwhoami              Add a LDAP entry
# ldapadd                  Delete a LDAP entry
# ldapdelete              Management GUI
# gq                       Admin GUI
# directory_administrator
```

**Power Management**

```
# apmsleep                Put machine to sleep/standby state
# apm -v                  Query APM BIOS
# xapm                     Control APM
```