

# LINUX Notes

## *Distros*

Distro	Uses
Ubuntu	New Hardware Drivers
Fedora	Red Hat Test Bed
Mint	Good Audio/Video
openSUSE	Novell Test Bed
PCLinuxOS	Looks like Windows 50%
Debian	Stable but three years behind the times
Puppy/Tiny Core	USB Flash LINUX
CentOS	Red Hat Clone
Gentoo	C++ Source Code for Experts Only (Getting better)
Kbuntu	KDE version of Ubuntu

## *Directories*

Directory	Whats in it
/	root directory
bin	binary program files
sbin	secure binary program files
etc	configuration files
var	variable length files (Log files)
home	normal users data files
root	root user data files
boot	operating system files

## *Deamons*

Deamon	Purpose
atd/crond	Schedulers
dhcpd	Assigns dynamic IP addresses
nfsd	Network File Sharing
smb	Windows File Sharing
mysql/postgresql	Databases
named	DNS - Dynamic Name Services
httpd/apache2	Web Servers
sshd	Secure Shell remote logins

## *Commands*

### Chapter 1

Command	Description
ls	List Files (directory)
cd	change directory
pwd	print working directory
more	paginate the output
less	because less is more
cat	display a file
man	manual on a command
help	help file
info	info file

apropos	one liner about a command
tac	display a file backwards
	Send output from one command to another
>	Redirect output to file (overwrite)
>>	Redirect output to file (append)
*	match any # of chars
?	Match one char
[]	Match from a list for chars

## Chapter 2

Command	Description
mkdir	Make Directory
touch	Create a file
cp	copy a file
ls -a	list files including hidden files
ls -l	list files long format
ls -al	list files including hidden and long format
mv	move
rm	remove (delete) a file
rmdir	remove (delete) a directory
rm -r	remove a directory and everything under it
find	find a file (slow)
locate	find a file (fast) (database)"

## Chapter 3

Command	Description
su	Switch user
login	login
logout	logout
shutdown	shutdown the system after a time
halt	halt the system NOW"

## Chapter 4

Command	Description
nano	Easy Editor
vi	editor
vim	harder editor with improvements
emacs	complicated and flexable editor

## Chapter 5

Command	Description
chgrp	change group
chown	change ownership
chmod	modify security of a file
umask	modify default permissions
adduser	add a user
userdel	delete a user
usermod	modify a users group etc.
addgroup	add a group of users
passwd	Change a Password

## Chapter 6

Command	Description
head	first n lines of a file
tail	last n lines of a file
grep	search within a file
sort	sort (order) a file
uniq	display only one copy of each line"

## Chapter 7

Command	Description
whoami	displays the current login user
who	display all users
w	display all users more detail"

## Chapter 9

Command	Description
ps	list user processes
ps aux	list system processes
kill	kills a process"

## Chapter 12

Command	Description
ssh	attach to another SSH computer

## Chapter 13

Command	Description
tar -cvf	groups (combines) files
tar -xvf	extract grouped files files
gzip	compress files
gzip -d	de-compress files

## Chapter 15

Command	Description
sudo	Become the super user (dangerous)

## *VI Commands*

Command	Description
esc	Command Mode
i	Insert Mode
R	Replace Mode
b f	back / forward a word
{ }	back / forward a paragraph
o O	insert line below/above
x X	insert character before after
dd	delete line
de db	delete to end / beginning of line
d\$ d^	delete right / left
G	goto end of line
5G	goto line 5

/text	search forward
?text	search backward
:%s/text/text2/gc	search and replace
:w file	write file
:r file	read file
ZZ :wq	write and quite
:q :q!	force quit (no save)

### ***EMACS***

Command	Description
^x^s	Save
^x^c	Exit (close)
^x^f	Read a file
^xi	insert a file into emacs
^s	search foward
^r	“search backward