Linux Commands Overview

Programming Languages hacks

November 25, 2006

Documentation

Documentation	
man	On-line reference manuals
info	Read Info documents

File system

Directory listing		
ls	List directory contents	
dir	Briefly Is	
vdir	Verbosely Is	
dircolors	Color setup for Is, etc	
	Basic file operations	
ср	Copy files	
dd	Convert and copy a file	
install	Copy files and set attributes	
mv	Move (rename) files	
rm	Remove files or directories	
rmdir	Remove empty directories	
shred	Remove files more securely	
find	Search for files in a directory hierarchy	
locate	Index and quickly search for all files	
	File name manipulation	
basename Strip directory and suffix from a		
	name	
dirname	Strip non-directory suffix from a file	
	name	
pathchk	Check file name portability	
	File comparing	
cmp	Compare two files byte by byte	
diff	Compare files line by line	
patch	Apply a diff file to an original	
Changing file attributes		
chgrp	Change file groups	
chmod	Change access permissions	
chown	Change file owners and groups	
touch	Change file timestamps	

	Special file types		
link	Make a hard link via the link syscall		
unlink	Remove files via the unlink syscall		
ln	Make links between files		
readlink	Print the referent of a symbolic link		
mkdir	Make directories		
mkfifo	Make FIFOs (named pipes)		
mknod	Make block or character special files		
	Disk		

mknod	Make block or character special files	
	Disk	
df	Report file system disk space usage	
du	Estimate file space usage	
stat	Report file or file system status	
sync	Synchronize memory and disk	
fdformat	Low-level formats a floppy disk	
fdisk	Partition table manipulator	
fsck	Check and repair a Linux file system	
mount	Attach a file system to the file tree	

Network

Network			
hostname Print or set system name			
hostid	Print numeric host identifier		
ifconfig	Configure a network interface		
iwconfig	Configure a wireless network interface		
route	Show and manipulate the IP routing table $ \\$		
arp	Manipulate the system ARP cache		
ping	Sends echo requests to the host		
traceroute	Traces path to a network host		
nslookup	Query DNS interactively		
netstat	Print network connections, routing ta-		
	bles, interface statistics, masquerade		
	connections, and multicast member-ships		
tcpdump	Dump traffic on a network (sniffer)		

Shell

		Г
	Context	L
alias	Create an alias	
unalias	Remove an alias	
pwd	Print working directory	г
stty	Print or change terminal characteris-	L
	tics	
printenv	Print environment variables	
tty	Print file name of terminal on stan-	
	dard input	_
clear	Clear the terminal screen	L
history	Command History	
enable	Enable and disable builtin shell com-	
	mands	
	Conditions	
false	Do nothing, unsuccessfully	
true	Do nothing, successfully	
test	Check file types and compare values	
expr	Evaluate expressions	

	Redirection	
tee	Redirect output to multiple files	sor
	Numeric operations	uni
factor	Show factors of numbers	com
seq	Print sequences of numbers	ptx
		tso

Text managing

		Printing text
	echo	Print a line of text
	printf	Format and print data
	yes	Print a string until interrupted
		Output of entire files
	less	Display output one screen at a time
	cat	Concatenate and write files
	tac	Concatenate and write files in reverse
	nl	Number lines and write files
_	ol	Write files in octal or other formats
╝		Output of parts of files
	head	Output the first part of files
	tail	Output the last part of files
	split	Split a file into fixed-size pieces
е	csplit	Split a file into context-determined
5	_	pieces
	grep	Print lines matching a pattern
		Summarizing files
	WC	Print newline, word, and byte counts
	sum	Print checksum and block counts
	cksum	Print CRC checksum and byte counts
- е	md5sum	Print or check MD5 digests
=	sha1sum	Print or check SHA-1 digests
_		Operating on characters
	tr	Translate, squeeze, and/or delete
		characters
	expand	Convert tabs to spaces

unexpand	Convert spaces to tabs		
Ope	Operating on fields within a line		
cut	Print selected parts of lines		
paste	Merge lines of files		
join	Join lines on a common field		
C	perating on file contents		
sed	Basic text transformations on an in-		
	put stream		
awk	Pattern scanning and text processing		
	language		

		0		
	language			
	Operating or	1 form	atting	
fmt	Reformat pai	ragraph	text	
pr	Paginate or	columna	ate files	for print-
fold	ing Wrap input	lines to	o fit ir	specified

width

sort	Sort text files
uniq	Uniquify files
comm	Compare two sorted files line by line
ptx	Produce a permuted index of file con-
	tents
tsort	Topological sort

Operating on sorted files

System

Users			
id Print user identity			
logname	Print current login name		
whoami	Print effective user ID		
groups	Print group names a user is in		
users Print login names of users current logged in			
who	Print who is currently logged in		
useradd	Create a new user or update default		
	new user information		
usermod	Modify a user account		
System			
date	Print or set system date and time		
uname	Print system information		
free	Display amount of free and used		
	memory in the system		
	Process control		
kill	Sending a signal to processes		
ps	Information of the active processes		
top	Real-time view of system and tasks		
7 Commands			

Commands

Tools	
source	Read and execute commands in the
	current shell context
which	Locate a command
whereis	Locate the binary, source, and manual
	page files for a command
xargs	Build and execute command lines
-	from standard input
Modified command invocation	
chroot	Modify the root directory
env	Modify environment variables
nice	Modify niceness
nohup	Immunize to hangups
su	Modify user and group ID
time	Run programs and summarize system

Execute a program periodically, show-

resource usage

ing output fullscreen Delaying

Delay for a specified time