Linux操作简介

Basic File Operations

ls List files in a directory

cp Copy a file

mv Rename ("move") a file

rm Delete ("remove") a file

In Create links (alternative names) to a file

Directory Operations

cd Change your current directory

pwd Print the name of your current directory, i.e., "where you are now" in

the filesystem

basename Print the final part of a file path

dirname Remove the final part of a file path

mkdir Create a directory

rmdir Delete an empty directory

rm -r Delete a nonempty directory and its contents

File Viewing

cat View files in their entirety

less View files one page at a time

head View the first lines of a file

tail View the last lines of a file

nl View files with their lines numbered

od View data in octal (or other formats)

vxd View data in hexadecimal

gv View Postscript or PDF files

xdvi View TeX DVI files

File Creation and Editing

emacs Text editor from Free Software Foundation

vim Text editor, extension of Unix vi

umask Set a default mode for new files and directories

soffice Office suite for editing Microsoft Word, Excel, and PowerPoint documents

abiword Edit Microsoft Word documents

gnumeric Edit Excel spreadsheets

File Properties

stat Display attributes of files and directories

wc Count bytes, words, lines in a file

du Measure disk usage of files and directories

file Identify (guess) the type of a file

touch Change timestamps of files and directories

chown Change owner of files and directories

chgrp Change group ownership of files and directories

chmod Change protection mode of files and directories

chattr Change extended attributes of files and directories

lsattr List extended attributes of files and directories

File Location

find Locate files in a directory hierarchy

slocate Create an index of files, and search the index for string

which Locate executables in your search path (command)

type Locate executables in your search path (bash builtin)

whereis Locate executables, documentation, and source files

File Text Manipulation

grep Find lines in a file that match a regular expression

cut Extract columns from a file

paste Append columns

tr Translate characters into other characters

sort Sort lines of text by various criteria

uniq Locate identical lines in a file

tee Copy a file *and* print it on standard output, simultaneously

```
$ cat myfile
This is a very wonderful file.
$ cat myfile | tr aeiouAEIOU '*'
Th*s *s * v*ry w*nd*rf*l f*l*.
```

File Compression and Packaging

gzip Compress files with GNU Zip

gunzip Uncompress GNU Zip files

compress Compress files with traditional Unix compression

uncompress Uncompress files with traditional Unix compression

zcat Compress/uncompress file via standard input/output (gzip or compress)

bzip2 Compress files in BZip format

bunzip2 Uncompress BZip files

zip Compress files in Windows Zip format

unzip Uncompress Windows Zip files

uuencode Convert file to uuencoded format

uudecode Unconvert file from uuencoded format

File Comparison

diff Line-by-line comparison of two files or directories

comm Line-by-line comparison of two sorted files

cmp Byte-by-byte comparison of two files

md5sum Compute a checksum of the given files (MD5)

Disks and Filesystems

df Display available space on mounted filesystems

mount Make a disk partition accessible

umount Unmount a disk partition (make it inaccessible)

fsck Check a disk partition for errors

sync Flush all disk caches to disk

Backups and Remote Storage

mt Control a tape drive

dump Write a disk partition to tape

restore Restore the results of a dump

tar Read and write tape archives

cdrecord Burn a CD-R

rsync Mirror a set of files onto another device or host

File Printing

lpr Print a file

lpq View the print queue

Iprm Remove a print job from the queue

\$ lpr -P myprinter myfile

Viewing Processes

ps List process

uptime View the system load

w List active processes for all users

top Monitor resource-intensive processes interactively

xload Monitor system load graphically in an X window

free Display free memory

Controlling Processes

kill

nice

renice

Terminate a process (or send it a signal)

Invoke a program at a particular priority

Change a process's priority as it runs

Users and Their Environment

logname Print your login name

whoami Print your current, effective username

id Print the user ID and group membership of a user

who List logged-in users, long output

users List logged-in users, short output

finger Print information about users

last Determine when someone last logged in

printenv Print your environment

Working with User Accounts

useradd Create a new account

userdel Delete an account

usermod Modify an account

passwd Change a password

chfn Change a user's personal information

chsh Change a user's shell

Working with Groups

groups Print the group membership of a user

groupadd Create a new group

groupdel Delete a group

groupmod Modify a group

Basic Host Information

uname Print basic system information

hostname Print the system's hostname

dnsdomainname Same as hostname - d

domainname Same as hostname - y

nisdomainname Same as hostname - y

ypdomainname Same as hostname - y

ifconfig Set and display network interface information

Host Location

host Look up hostnames, IP addresses, and DNS info

whois Look up the registrants of Internet domains

ping Check if a remote host is reachable

traceroute View the network path to a remote host

Network Connections

ssh Securely log into a remote host, or run commands on it

telnet Log into a remote host (insecure!)

scp Securely copy files to/from a remote host (batch)

sftp Securely copy files to/from a remote host (interactive)

ftp Copy files to/from a remote host (interactive, insecure!)

Screen Output

echo Print simple text on standard output

printf Print formatted text on standard output

yes Print repeated text on standard output

seq Print a sequence of numbers on standard output

clear Clear the screen or window

```
$ echo hello world
hello world

$ printf "User %s is %d years old.\n" sandy 29
User sandy is 29 years old.
```

```
$ seq 3
1
```

3

Dates and Times

xclock Display a graphical clock

cal Print a calendar

date Print or set the date and time

ntpdate Set the system time using a remote timeserver

Graphics and Screensavers

eog Display graphics files

gqview Display graphics files and slideshows

ksnapshot Take a screenshot (screen capture)

gimp Edit graphics files

gnuplot Create graphs and plots

xscreensaver Run a screensaver

