
Linux Documentation

Release 1.0

xdays

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CHAPTER 1

bz*

bzip2&bunzip2

Burrows-Wheeler

- -z
- -d
- -t
- -k

:

```
bzip2 filename
```

bz{cat,diff,grep,less...}

bzip

cpio

- -o
- -i
- -d
- -v

:

```
find . | cpio -ov > tree.cpio
```

:

```
cpio -idv < tree.cpio
```

:

```
find . -print0 | cpio --null -pvd new-dir
```

gz*

gzip&gunzip

Lempel-Ziv coding

- -l
- -d
- -t
- -k

:

```
gzip filename
```

gz{cat,diff,grep,less...}

gzip

tar

cpio

- -c
- -f
- -j bzip2
- -l
- -x
- -z gzip

:

```
tar -czf foobar.tar.gz foo bar
```

:

```
tar -xzf foobar.tar
```

zip*

zip&unzip

MSDOS

- -d zip
- -r
- -T

- -l zip

:

```
zip -r filename file1 dir2
```

:

```
unzip file.zip
```

zip{info,note,grep,cloak}

zip

CHAPTER 2

cal

- -A
- -B
- -3
- -m
- -y

201206:

```
cal 06 2012
```

2:

```
cal -A 2 -B 2
```

date

- -d
- -f
- -r
- -R rfc2822
- -rfc-3339 rfc3339date,secondsns
- -s
- -u utc
- +format %D,%F,%n,%s

:

```
date +%s
```

:

```
date +%F
```

hwclock

- -r
- -set -date
- -s
- -w

:

```
hwclock -r
```

:

```
hwclock -s
```


badblocks

badblocks *e2fsck -c*

- -b
- -o
- -s
- -w

:

```
badblocks /dev/sda1
```

fdisk

curses fdisk

- -g
- -z
- -P {rlst}
- h

:

```
cfdisk -P s /dev/sda
```

debugfs

ext2/ext3/ext4

- -w
- -c inodegroup
- -f
- -R
- -D buffer
- help

```
debugfs /dev/sda1
```

df

- -h 1024
- -H 1000
- -sync

:

```
df /tmp/test.txt
```

dosfsck

fsck.dosdos

- -a
- -l
- -n
- -r

:

```
dosfsck /dev/sda1
```

dumpe2fs

- -b
- -h

:

```
dumpe2fs -h /dev/sda1
```

e2fsck

fsck.ext{2,3,4}

- -c *badblocks*
- -F
- -n no
- -p
- -y yes

```
e2fsck -p /dev/sda1
```

e2image

meta

- -I
- -r raw
- -Q QCOW2
- -s

:

```
e2image /dev/sda1 /tmp/sda1.img
```

e2label

- None

:

```
e2label /dev/sda1 /
```

fdisk

- -l
- -a

free

- -bkmg b,k,m,g
- -c -s sc
- -o buffercache
- -t

m2s5:

```
free -c5 -s2 -m
```

hdparm

/

- -* 0/1
- -A read-lookahead
- -c (E)IDE 32-bit I/O
- -d DMA
- -I
- -t

:

```
hdparm -t /dev/sda1
```

iso9660s

devdump,iso{dump,info,vfy}

- -f find . -print
- -l ls -lR
- -x

iso:

```
devdump -i /path/to/isofile
```

isozize

- -x block
- -d

iso:

```
isozize -x /path/to/isofile
```

losetup

loop

- -a loop
- -e
- -f loop
- -j

loop:

```
losetup /dev/loop0 /file
```

mkdosfs

MS-DOS

- -c
- -f file allocation table
- -F file allocation table

MS-DOS:

```
mkdosfs /dev/hd1
```

mke2fs

ext2/ext3/ext4/etc/mke2fs.confmke2fs{,.ex{2,3,4}}

- -b
- -c
- -E
- -F
- -g block
- -G
- -i bytes/inode
- -I inode
- -j journal
- -l
- -L
- -m
- -M
- -n
- -N inode
- -O
- -q
- -S
- -t

- -T
- -U UUID

:

```
mke2fs -j /dev/sda1
```

mount

- -v
- -a fstab
- -F
- -f
- -l
- -n mtab
- -s
- -r -o ro
- -w -o rw
- -L
- -U UUID
- -t
- -o
- -B bind
- -R
- -M
- **fstab**
 - sync/async /
 - atime/noatime
 - auto/noauto -a
 - default rw, suid, dev, exec, auto, nouser, and async
 - diratime/nodiratime
 - exec/noexec
 - suid/nosuid suid

- owner
- remount
- ro
- rw
- user/users/nouser

:

```
mount -t ext3 /dev/sda1 /mnt/
```

resize2fs

ext2

- -d debug-flags24inode8inode
- -f
- -F
- -M
- -p
- -P

:

```
resize2fs -p /dev/sdb2 7341705
```

sfdisk

- -s
- -l

:

```
sfdisk -s
```

shred

- -n
- --random-source
- -s
- -u
- -Z

:

```
shred -u file
```

swap*

/swap

- -a fstabswap
- -e
- -f
- -p
- -s
- -L Label
- -U UUID

swap:

```
swapon /dev/sda3
```

tune2fs

ext

- -c e2fsck
- -C
- -e
- -E
- -f
- -g
- -i
- -j/J ext3
- -l
- -L
- -m
- -M
- -o
- -O
- -r
- -q quota

:

```
tune2fs -l /dev/sda1
```

umount

- -n mtab
- -r
- -d looploop
- -i /sbin/umount.*
- -a mtab
- -t
- -O
- -f NFS
- -l
- -fake

:

```
umount /dev/sda1
```


basename

- -version

:

```
basename /path/to/file.txt
```

lsattr/chattr

Linux

- -R
- -f
- +-[acdeijstuADST]
 - a
 - c

- D
- d dump
- E
- e block
- I
- h block
- i
- j
- s

:

```
chattr +a /path/to/file
```

:

```
lsattr /path/to/file
```

chattr

- -h
- -R
- -H
- -L
- -P

:

```
chgrp -RP xdays /home/xdays
```

chmod

- -R
- [ugoa][+|=][rwxXst] || [1234567]{3}
 - X execute/search only if the file is a directory or already has execute permission for some user
 - s /
 - t

:

```
chmod u+w /path/to/file
```

chown

- -R
- *chgrp*

:

```
chown xdays:xdays /path/to/file
```

cp

- -a -dR
- --attributes-only
- --backup/-b

- `-copy-contents`
- `-d`
- `-f`
- `-i`
- `-H`
- `-l`
- `-n`
- `-P -d`
- `-p`
- `-preserve`
- `-no-preserve`
- `-parents`
- `-R/r`
- `-remove-destination`
- `-s`

:

```
cp -ap src dest
```

du

- `-a`
- `-b` byte
- `-c` total
- `-D/H`
- `-h`
- `-k` kb
- `-l`
- `-m` mb
- `-s`
- `-x`
- `-d`

- `-time=atime,ctime,mtime,status`

:

```
du -h -d2 /path/
```

file

magic

- `-F`
- `-h`
- `-i, --mime-type, --mime-encoding mime`
- `-L`
- `-p`

:

```
file /path/to/file
```

find

- `-H`
- `-L`
- `-P`
- `-D debug`
- `-O 0123`
- `-and-or`
 - * `-d/-depth`

- * -daystart 24
- * -maxdepth
- * -mindepth
- * -regextype emacs(default), posix-awk, posix-basic, posix-egrep posix-extended
- * -mount/-xdev
- * +n/-n/n //n
- * -amin/-cmim/-mmin atime/ctime/mtime
- * -anewer/-cnewer atime/ctimemtime
- * -atime/-ctime/-mtime h
- * -empty
- * -executable
- * -false false
- * -fstype
- * -gid/-group
- * -iname
- * -inum inode
- * -links
- * -lname/-ilname
- * -name/-iname
- * -newer file mtimefile
- * -newerXY reference
- * -nogroup/-nouser /ID
- * -path
- * -perm
- * -readable access
- * -regex/-iregex
- * -samefile file fileinode
- * -size
- * -true true
- * -uid/-user
- * -used n
- * -wholename/-iwholename
- * -writable access
- * -xtype -type
- * -delete
- * -exec command { } ; xargs

- * -fls file ls
- * -fprint/-fprintf file /prindf
- * -ls ls -dils

:

```
find . -mtime +5min -type f -size 1M -exec rm -f {} \;
```

In

- -backup
- -b
- -force
- -i
- -L
- -n
- -P
- -s
- -t

:

```
ln -s src dest
```

locate

updatedb

- -b
- -c
- -d
- -e
- -L
- -i
- -l
- -P
- -0
- -S
- -r
- -w

:

```
locate -r "locate.rst$"
```

ls

- -a/A /...
- -b
- -block-size=
- -c ctime
- -C
- -d
- -F
- -format= across(-x),commas(-m),horizontal(-x),long(-l),single-column(-1),verbose(-l),vertical(-C)
- -g
- -G
- -h
- -si 1000

- -i inode
- -k k
- -l
- -m
- -o
- -Q
- -R
- -s
- -S
- --sort= none(-U),extension(-X),size(-S),time(-t),version(-v)
- --time= atime(-u),access(-u),use(-u),ctime(-c),status(-c)
- --time-style= full-iso,locale
- -x horizontal
- -l

mtime:

```
ls -l --time=ctime $HOME
```

mkdir

- -m
- -p

:

```
mkdir -m 755 /path/to/dir
```

mknod

- -m
- -b
- -c/u
- -p
-

```
mknod /dev/sde b 1 3
```

mktemp

- -d
- -u
- -suffix
- -p

```
mktemp -d -p /tmp/
```

mv

- -b/-backup=
- -n
- -strip-trailing-slashes

- -s
- -t
- -u

```
mv -u /src /dest
```

pwd

- -L
- -P

```
pwd
```

rename

perlexp

- -n
- -f

```
rename 's/\.bak$//' *.bak
```

rmdir

- `-ignore-fail-on-non-empty`
- `-p`

```
rmdir -p a/b/c
```

rm

- `-one-file-system`
- `-no-preserve-root /`
- `-preserve-root /`
- `-d`

```
rm --one-file-system /path/
```

slocate

locate

- `-u`
- `-U`
- `-e`
- `-f`
- `-c`

- -l
- -i
- -n
- -r
- -o
- -d

```
slocate filename
```

stat

- -L
- -f
- -c
- --printf cprintf
- -t tesc
- - %a
 - %b
 - %d
 - %F
 - %h
 - %i inode
 - %n
 - %s
 - %w
 - %x
 - %y
 - %z
- - %a
 - %b
 - %c node
 - %f

```
stat /path/file
```

tmpwatch

- -u
- -m
- -c
- -M
- -a
- -d
- -s fuser
- -U
- -x
- -X

```
tmpwatch -a 5 /tmp/
```

touch

- -a
- -c
- -d
- -h
- -m
- -r
- -t
- -time

```
touch /tmp/aa
```

tree

- -a
- -d
- -l
- -f
- -x
- -L
- -R
- -P
- -I
- -prune
- -noreport
- -charset
- -filelimit
- -timefmt
- -o

```
tree -d -L2 /tmp/
```

whereis

- -b
- -m
- -s

```
whereis -b whereis
```

depmod

- -a
- -A
- -n
- -w

depmod

dmesg

<http://www.web-manual.net/linux-3/the-kernel-ring-buffer-and-dmesg/>

- -C
- -c
- -D

- -k
- -l
- -r
- -t
- -u

```
dmesg
```

modinfo

- -F
- -k
- -0 0
- -a -d -l -p -n parm

```
modinfo thinkpad_acpi
```

modprobe

- -a
- -C
- -c
- --dump-modversions
- -d
- --force-vermagic magic
- --force-modversion
- -f

- -i
- -n
- -q
- -R alias
- -r
- -show-depends

```
modprobe -r thinkpad_acpi
```

reboot

haltpoweroff

- -f shutdown
- -p poweroffhalt
- -w

```
reboot
```

shutdown

- -r
- -h
- -H
- -P
- -c
- -k

```
shutdown -h now
```

slabtop

slabtop

- -d
- -s
- -o

```
slabtop
```

sysctl

- variable key
- variable=value key
- -n
- -e
- -N
- -q
- -w
- -p/-f
- -a/-x/-A
- -b
- -system
- -pattern
-

```
sysctl -a --pattern 'net.ipv4.conf.(eth|wlan)0.arp'
```

uname

- -a
- -s
- -n
- -r
- -v
- -m
- -p CPU
- -i
- -o

```
uname -n
```


dig

- -b
- -f
- -m
- -p
- -4 ipv4
- -t
- -q
- -k/-y
- - +[no]tcp tcp
- - +[no]vc tcp
- - +[no]ignore UDP
- - +domain
- - +[no]search resolv.confsearch
- - +[no]aaonly/aaflag aa
- - +[no]adonly ad
- - +[no]cdonly cd
- - +[no]cl class
- - +[no]ttlid ttl

- +[no]recurse
- +[no]nssearch
- +[no]trace
- +[no]cmd
- +[no]short
- +[no]identify
- +[no]comments
- +[no]rrcomments
- +split=w
- +[no]stats
- +[no]qr
- +[no]question
- +[no]answer
- +[no]authority
- +[no]additional
- +[no]all flag
- +time=t
- +tries=t
- +retries=t
- +ndots=t
- +bufsize=b
- +edns=# EDNS
- +[no]multiline
- +[no]onesoa
- +[no]fail SERVFAIL
- +[no]besteffort mailform
- +[no]dnssec DNSSEC
- +[no]sigchase
- +trusted-ky=###
- +[no]topdown top-down
- +[no]nsid EDNSID

```
dig @8.8.8.8 www.xdays.info +short
```

elinks

Web

- -lookup
- -dump

```
elinks
```

ifconfig

- -a
- -s
- interface
- up/down
- [-]arp arp
- [-]promisc
- [-]allmulti
- metric metric
- mtu
- netmask
- add/del ipv6
- tunnel v6-v4
- irq
- io_addr IO
- media 10/100M
- [-]broadcast
- [-]pointopoint
- hw

- multicast
- address IP
- txqueuelen

```
ifconfig eth0:0 192.168.1.1 netmask 255.255.255.0
```

ip

- – address
- addrlabel
- l2tp IP
- link
- maddress
- monitor
- mroute
- mrule
- neighbour ARP
- netns
- ntable
- route
- rule
- tcp_metrics/tcpmetrics TCPmetric
- tunnel IP
- tuntap tap
- xfrm IPsec
- – add
- del
- show/list
- help

```
ip addr show
```

iptables

IPv4NAT

- - filter
 - nat
 - mangle
 - raw
 - security SELinux
- - * -A
 - * -C
 - * -D
 - * -I
 - * -R
 - * -L
 - * -S
 - * -F
 - * -Z
 - * -N
 - * -X
 - * -P
 - * -E
- * -4 ipv4
 - * -6 ipv6
 - * -p
 - * -s IP
 - * -d IP
 - * -m
 - * -j
 - * -g

- * -i
- * -o
- * -f
- * -c
- * -n
- * -X
- * --line-numbers
- * --modprobe=
- - ‘ <http://www.web-manual.net/linux-3/the-kernel-ring-buffer-and-dmesg/> _
- - ACCEPT
 - DROP
 - QUEUE
 - RETURN
- - DNAT
 - * --to-destination ip:port
 - LOG
 - MASQUERADE natPOSTROUTINGSNAT
 - SNAT natPOSTROUTING
 - * --to-source ip:port
- ‘ <http://www.web-manual.net/linux-3/the-kernel-ring-buffer-and-dmesg/> _

```
iptables -t nat -A POSTROUTING -s 192.168.110.0/24 -j MASQUERADE
```

lftp

Bash

- - -d
- -e
- -p
- -u :
- -f

- -c
- - get
 - * -c
 - * -E
 - * -e
 - * -a ascii
 - * -O
- mget
 - * get
- mirror
 - * -c
 - * -e
 - * -s meta
 - * -n
 - * -r
 - * -p
 - * -R
 - * -L
 - * -N
 - * -P
 - * -i
 - * -x
 - * -I glob
 - * -X glob
- mput
 - * -c
 - * -d
 - * -E
 - * -a ascii
 - * -O
- pget
 - * -n
- put
 - * mput
- torrent BT
 - * -O

```
lftp -e 'pget -n 10 -c http://releases.ubuntu.com/raring/ubuntu-13.04-server-amd64.iso  
↵'
```

mail

- -f
 - s
 - email
- -help
 - t
 - n
 - e
 - f
 - d
 - s
 - u
 - R
 - r
 - m
 - q
 - x
 - h
 - ! shell

```
mail
```

ncftp

ftp

- -u
- -p
- -P

```
ncftp ftp://hostname
```

nc

TCPUDP

- -C CRLF
- -D debug
- -I TCPbuffer
- -i
- -k
- -l
- -n
- -O TCPbuffer
- -p
- -r
- -s IP
- -u UDP
- -w
- -z

:

```
nc -l 8888 > /path/file
nc 127.0.0.1 88888 > /path/file
```

:

```
rm -f /tmp/f; mkfifo /tmp/f
cat /tmp/f | /bin/sh -i 2>&1 | nc -l 127.0.0.1 1234 > /tmp/f

nc 127.0.0.1 1234
```

:

```
nc -zv host.example.com 20-30
```

netstat

- -r
- -i
- -e
- -p
- -l
- -a
- -n

:

```
netstat -lnpt
```

nslookup

-

:

```
nslookup www.xdays.info 8.8.8.8
```

ping

- -a ping
- -c
- -f ping
- -i
- -I
- -n
- -D
- -q

ping:

```
ping -a 8.8.8.8
```

route

- -n
- add
- del
- target
- -net
- -host
- netmask
- gw
- reject
- dev

:

```
route add -host 192.168.1.1 gw 192.168.2.1
```

rsync

- -v, -verbose
- -q, -quiet
- --no-motd daemonMOTD (see manpage caveat)
- -c, -checksum checksummod-timesize
- -a, -archive -rlptgoD (-H,-A,-X)
- --no-OPTION OPTION (--no-D)
- -r, -recursive
- -R, -relative
- --no-implied-dirs --relative
- -b, -backup (--suffix & --backup-dir)
- --backup-dir=DIR DIR
- --suffix=SUFFIX (default ~ w/o --backup-dir)
- -u, -update
- --inplace (SEE MAN PAGE)
- --append
- --append-verify --append, checksum
- -d, -dirs
- -l, -links
- -L, -copy-links
- --copy-unsafe-links
- --safe-links
- -k, -copy-dirlinks
- -K, -keep-dirlinks
- -H, -hard-links
- -p, -perms
- -E, -executability

- `-chmod=CHMOD`
- `-A, -acls` ACLs (implies `-perms`)
- `-X, -xattrs`
- `-o, -owner` (super-user only)
- `-g, -group`
- `-devices` (super-user only)
- `-specials`
- `-D -devices -specials`
- `-t, -times`
- `-O, -omit-dir-times -times`
- `-super`
- `-fake-super xattrs`
- `-S, -sparse`
- `-n, -dry-run`
- `-W, -whole-file` (without delta-xfer algorithm)
- `-x, -one-file-system`
- `-B, -block-size=SIZE` checksum
- `-e, -rsh=COMMAND` shell
- `-rsync-path=PROGRAM` rsync
- `-existing`
- `-ignore-existing`
- `-remove-source-files` (non-dirs)
- `-del` an alias for `-delete-during`
- `-delete`
- `-delete-before`
- `-delete-during`
- `-delete-delay`
- `-delete-after`
- `-delete-excluded`
- `-ignore-errors` I/O
- `-force`
- `-max-delete=NUM`
- `-max-size=SIZE`
- `-min-size=SIZE`
- `-partial`
- `-partial-dir=DIR`

- `-delay-updates`
- `-m, -prune-empty-dirs`
- `-numeric-ids uid/gid`
- `-timeout=SECONDS I/Os`
- `-contimeout=SECONDS`
- `-I, -ignore-times mtimesize`
- `-size-only`
- `-modify-window=NUM`
- `-T, -temp-dir=DIR`
- `-y, -fuzzy`
- `-compare-dest=DIR`
- `-copy-dest=DIR -compare-dest`
- `-link-dest=DIR -compare-dest`
- `-z, -compress`
- `-compress-level=NUM`
- `-skip-compress=LIST`
- `-C, -cvs-exclude CSV`
- `-f, -filter=RULE file-filtering`
- `-F` same as `-filter='dir-merge /rsync-filter'` repeated: `-filter='- .rsync-filter'`
- `-exclude=PATTERN PATTERN`
- `-exclude-from=FILE`
- `-include=PATTERN`
- `-include-from=FILE`
- `-files-from=FILE`
- `-0, -from0 all`
- `-from/filter` files are delimited by 0s
- `-s, -protect-args` ; only wildcard special-chars
- `-address=ADDRESS`
- `-port=PORT`
- `-sockopts=OPTIONS TCP`
- `-blocking-io shellblocking I/O`
- `-stats`
- `-8, -8-bit-output`
- `-h, -human-readable`
- `-progress`
- `-P` same as `-partial -progress`

- -i, -itemize-changes
- -out-format=FORMAT
- -log-file=FILE
- -log-file-format=FMT
- -password-file=FILE
- -list-only
- -bwlimit=KBPS ; KBytes per second
- -write-batch=FILE
- -only-write-batch=FILE -write-batch but w/o updating destination
- -read-batch=FILE
- -protocol=NUM
- -iconv=CONVERT_SPEC
- -4, -ipv4 prefer IPv4
- -6, -ipv6 prefer IPv6
- -version
- (-h) -help (-h -help)

:

```
rsync -az -e ssh --delete /local/ remote:/remote/
```

:

```
mkdir /tmp/blank/ && rsync -av --delete /tmp/blank/ /dest/path/
```

scp

ssh

- -3
- -B
- -F ssh
- -l
- -o ssh

- -P
- -p
- -r

:

```
scp -r -P 2222 /local/ remote:/remote/
```

sftp

sshftp

- scp
- ftp

:

```
sftp remote
```

ssh-agent

sshRSApassphrase

- -a
- -d
- -k agent
- -t

ssh:

```
ssh-agent ssh
```

ssh-keygent

key

- -t
- -f

:

```
ssh-keygent -d rsa
```

ssh-keyscan

ssh

- -t
- -f

:

```
ssh-keyscan -t rsa localhost
```

ssh

ssh

- -A/a
- -b
- -C
- -D
- -F
- -f
- -g
- -i
- -L
- -l
- -N
- -o
- -P
- -q
- -R
- -w VPN
- -X/x X11

ssh-agent:

```
ssh -A root@remote
```

:

```
ssh -NC -D localhost:8086 root@remote
```

redis:

```
ssh -NC -L 2222:localhost:6379 root@remote
```

:

```
ssh -NC -R 2222:localhost:22 root@remote
```

tcpdump

- -A ASCII
- -B
- -c
- -C
- -d/dd/ddd /C/
- -D
- -e 2
- -f
- -F
- -G
- -i
- -j
- -J
- -K
- -l
- -L
- -n
- -r
- -s
- -S
- -t/tt/ttt/tttt
- -w
- -X
- - hostnetport
 - src , dst ,dst or src, dst and src
 - fddi,ip,arp,rarp,tcp,udp
 -

:

```
tcpdump -i eth0
```

tcpslice

tcpdump

- -d
- -R
- -r R
- -w

:

```
tcpslice -d +200 +300
```

telnet

telnet

-
- -d

:

```
telnet switch_host
```

tracepath

MTU

- -n
- -l

:

```
tracepath -n 8.8.8.8
```

traceroute

- -I ICMPPECHO
- -T TCPSYN
- -F
- -f TTL
- -N
- -n
- -w
- -U UDP

:

```
traceroute -n -w 2 8.8.8.8
```

wget

Startup:

-V, --version	display the version of Wget and exit.
-h, --help	print this help.
-b, --background	go to background after startup.
-e, --execute=COMMAND	execute a <code>`.wgetrc'-style</code> command. <code>wgetrc</code>

Logging and input file:

-o, --output-file=FILE	log messages to FILE.
-a, --append-output=FILE	append messages to FILE.
-d, --debug	print lots of debugging information. <code>debug</code>
-q, --quiet	quiet (no output).
-v, --verbose	be verbose (this is the default).
-nv, --no-verbose	turn off verboseness, without being quiet.
-i, --input-file=FILE	download URLs found in FILE. URL
-F, --force-html	treat input file as HTML. HTML
-B, --base=URL	prepends URL to relative links in <code>-F -i file</code> . URL

Download:

-t, --tries=NUMBER	set number of retries to NUMBER (0 unlimits).
--retry-connrefused	retry even if connection is refused.
-O, --output-document=FILE	write documents to FILE.
-nc, --no-clobber	skip downloads that would download to existing files.
-c, --continue	resume getting a partially-downloaded file.
--progress=TYPE	select progress gauge type.
-N, --timestamping	don't re-retrieve files unless newer than local.
-S, --server-response	print server response.
--spider	don't download anything.
-T, --timeout=SECONDS	set all timeout values to SECONDS.
--dns-timeout=SECS	set the DNS lookup timeout to SECS. DNS
--connect-timeout=SECS	set the connect timeout to SECS.
--read-timeout=SECS	set the read timeout to SECS.
-w, --wait=SECONDS	wait SECONDS between retrievals.
--waitretry=SECONDS	wait 1..SECONDS between retries of a retrieval.
--random-wait	wait from 0...2*WAIT secs between retrievals. ~
--no-proxy	explicitly turn off proxy.
-Q, --quota=NUMBER	set retrieval quota to NUMBER.
--bind-address=ADDRESS	bind to ADDRESS (hostname or IP) on local host.
--limit-rate=RATE	limit download rate to RATE.
--no-dns-cache	disable caching DNS lookups. DNS
--restrict-file-names=OS	restrict chars in file names to ones OS allows.
--ignore-case	ignore case when matching files/directories.
-4, --inet4-only	connect only to IPv4 addresses. <code>ipv4</code>
-6, --inet6-only	connect only to IPv6 addresses. <code>ipv6</code>
--prefer-family=FAMILY	connect first to addresses of specified family, one of IPv6, IPv4, or none.

<code>--user=USER</code>	set both ftp and http user to USER. httpftp
<code>--password=PASS</code>	set both ftp and http password to PASS. httpftp

Directories:

<code>-nd, --no-directories</code>	don't create directories.
<code>-x, --force-directories</code>	force creation of directories.
<code>-nH, --no-host-directories</code>	don't create host directories.
<code>--protocol-directories</code>	use protocol name in directories.
<code>-P, --directory-prefix=PREFIX</code>	save files to PREFIX/...
<code>--cut-dirs=NUMBER</code>	ignore NUMBER remote directory components. ~

HTTP options:

<code>--http-user=USER</code>	set http user to USER. http
<code>--http-password=PASS</code>	set http password to PASS. http
<code>--no-cache</code>	disallow server-cached data. server
<code>-E, --html-extension</code>	save HTML documents with <code>.html</code> extension. html
<code>--ignore-length</code>	ignore <code>Content-Length</code> header field. header
<code>--header=STRING</code>	insert STRING among the headers. header
<code>--max-redirect</code>	maximum redirections allowed per page.
<code>--proxy-user=USER</code>	set USER as proxy username.
<code>--proxy-password=PASS</code>	set PASS as proxy password.
<code>--referer=URL</code>	include <code>Referer: URL</code> header in HTTP request. <code>u</code>
<code>↔refererheader</code>	
<code>--save-headers</code>	save the HTTP headers to file. header
<code>-U, --user-agent=AGENT</code>	identify as AGENT instead of Wget/VERSION. agent
<code>--no-http-keep-alive</code>	disable HTTP keep-alive (persistent connections). keep-
<code>↔alive</code>	
<code>--no-cookies</code>	don't use cookies. cookie
<code>--load-cookies=FILE</code>	load cookies from FILE before session. cookie
<code>--save-cookies=FILE</code>	save cookies to FILE after session. cookie
<code>--keep-session-cookies</code>	load and save session (non-permanent) cookies. cookie
<code>--post-data=STRING</code>	use the POST method; send STRING as the data. post
<code>--post-file=FILE</code>	use the POST method; send contents of FILE. post
<code>--content-disposition</code>	honor the Content-Disposition header when choosing local file names (EXPERIMENTAL). ~
<code>--auth-no-challenge</code>	Send Basic HTTP authentication information without first waiting for the server's challenge. serverchallenge

HTTPS (SSL/TLS) options:

<code>--secure-protocol=PR</code>	choose secure protocol, one of auto, SSLv2, SSLv3, and TLSv1.
<code>--no-check-certificate</code>	don't validate the server's certificate.
<code>--certificate=FILE</code>	client certificate file.
<code>--certificate-type=TYPE</code>	client certificate type, PEM or DER.
<code>--private-key=FILE</code>	private key file.
<code>--private-key-type=TYPE</code>	private key type, PEM or DER.
<code>--ca-certificate=FILE</code>	file with the bundle of CA's. ~
<code>--ca-directory=DIR</code>	directory where hash list of CA's is stored. ~
<code>--random-file=FILE</code>	file with random data for seeding the SSL PRNG. ~
<code>--egd-file=FILE</code>	file naming the EGD socket with random data. ~

FTP options:

```

--ftp-user=USER      set ftp user to USER. ftp
--ftp-password=PASS  set ftp password to PASS. ftp
--no-remove-listing  don't remove .listing files. .listing
--no-glob            turn off FTP file name globbing. ftp
--no-passive-ftp     disable the "passive" transfer mode.
--retr-symlinks      when recursing, get linked-to files (not dir). ~
--preserve-permissions  preserve remote file permissions.

```

Recursive download:

```

-r, --recursive      specify recursive download.
-l, --level=NUMBER  maximum recursion depth (inf or 0 for infinite).
--delete-after      delete files locally after downloading them.
-k, --convert-links  make links in downloaded HTML point to local files. ~
-K, --backup-converted  before converting file X, back up as X.orig.
-m, --mirror        shortcut for -N -r -l inf --no-remove-listing.
-p, --page-requisites  get all images, etc. needed to display HTML page.
--strict-comments   turn on strict (SGML) handling of HTML comments. HTML

```

Recursive accept/reject:

```

-A, --accept=LIST    comma-separated list of accepted extensions.
-R, --reject=LIST    comma-separated list of rejected extensions.
-D, --domains=LIST  comma-separated list of accepted domains.
--exclude-domains=LIST  comma-separated list of rejected domains.
--follow-ftp        follow FTP links from HTML documents. HTMLftp
--follow-tags=LIST  comma-separated list of followed HTML tags. HTML
--ignore-tags=LIST  comma-separated list of ignored HTML tags. HTML
-H, --span-hosts    go to foreign hosts when recursive. host
-L, --relative      follow relative links only.
-I, --include-directories=LIST list of allowed directories.
-X, --exclude-directories=LIST list of excluded directories.
-np, --no-parent    don't ascend to the parent directory.

```

:

```

wget -c -r -np -k -L -b --reject=gif http://mirrors.163.com/centos/6/os/x86_64/ -e_
↪robots=off

```

whois

whoisIP

- -h whois
- -H

- -p

:

```
whois www.google.com
```


apt-cache

- gencache
- showpkg
- stats
- showsrc
- dump
- dumpavail
- show dpkg -print-avail
- search
- depends
- rdepends
- pkgnames
- -a
- -g

python:

```
apt-cache search python
```

apt-get

debian

- update
- upgrade
- dist-upgrade
- dselect-upgrade dselect
- install
- remove
- purge
- source
- check
- download
- clean
- autoclean
- autoremove
- changelog changelog
- -y yes
- -c

:

```
apt-get install vim
```

dpkg

debian

- - not-installed
 - config-files
 - half-installed
 - unpacked
 - half-configured
 - triggers-awaited
 - triggers-pending
 - installed
- - install
 - hold dpkg
 - deinstall
 - purge
- - reinst-required
- - -i
 - -unpack
 - -configure
 - -triggers-only trigger
 - -r
 - -P
 - **dpkg-deb**
 - * -b
 - * -c
 - * -e
 - * -x
 - * -X
 - * -f
 - * -I
 - **dpkg-query**
 - * -l
 - * -s
 - * -L

- * -S
- * -P
-
- -R

:

```
dpkg -S /path/filename
```

gpg

opengpg

- -s
- --clearsign
- --detach-sign/-b
- -e
- --verify
- --gen-key key
-

key:

```
gpg --list-keys xdays
```

gpgv

gpg

-

gpg:

```
gpgv pgpfile
```

rpm

redhat

- - -q
 - -V
 - --changelog changelog
 - -c
 - -d
 - -i
 - -l
 - -f
- - -i
 - --force
 - --nodigest digest
 - --nodeps
 - -U
 - -F
 - -e
- - --initdb/rebuilddb
 - --addsign
 - --showrc rpm
- - -a
 - -g
 - -p

:

```
rpm -ql vsftp
```

:

```
rpm -qf /etc/vsftpd/vsftpd.conf
```

yum

apt-get

- install
- update
- upgrade
- remove
- list
- info
- provides
- clean
- makecache
- groupinstall
- groupupdate
- grouplist
- groupremove
- groupinfo
- search
- shell yum shell
- localinstall
- localupdate
- reinstall
- downgrade
- deplist
- repolist

- version
- check
- -y yes
- --enablerepo=
- --nogpgcheck gpg

:

```
yum install vim
```

:

```
yum provide /usr/bin/vim
```


CHAPTER 8

- genindex
- modindex
- search