



## Centos

```
# cat /etc/redhat-release
CentOS Linux release 7.9.2009 (Core)
```



```
# uname -a
Linux oxoolcommunity.ossii.com.tw 3.10.0-1160.66.1.el7.x86_64 #1 SMP Wed May 18 16:02:34 UTC 2022
x86_64 x86_64 x86_64 GNU/Linux
```

██:██████linux██████

██ CentOS **3.10.0-1160.66.1.el7.x86\_64**██████ yum update ██████

## Debian



```
cat /etc/debian_version
```

## Ubuntu

```
lsb_release -a
```

```
No LSB modules are available.
Distributor ID: Ubuntu
Description:   Ubuntu 22.04.5 LTS
Release:      22.04
Codename:     jammy
```

```
cat /etc/issue
```

```
Ubuntu 22.04.5 LTS \n \l
```



```

ron@DESKTOP-MB641C8:~$ sudo adduser ron1
Adding user `ron1' ...
Adding new group `ron1' (1001) ...
Adding new user `ron1' (1001) with group `ron1' ...
The home directory `/home/ron1' already exists.  Not copying from `/etc/skel'.
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for ron1
Enter the new value, or press ENTER for the default
    Full Name []:
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n]

```

~~EX~~ `sudo adduser {username} sudo`

~~USE~~ `add [options] ( [options] )`

```

-d [ ] home[ ]
-p [ ]
-e [ ]YYYY-MM-DD
-g [ ]
-G [ ]
-M [ ]
-m [ ]/etc/skel/[ ]

```

[ ]

```

useradd {username}

```

```

[ ]
-d [ ]
-g [ ]
-G [ ]
-e [ ]
-f [ ]
-s [ ]shell

```

[ ]ssh[ ]sftp

Match[ ]UsePAM[ ]



```
ldd `which sshd` | grep libwrap
```

```
libwrap.so.0 => /lib/x86_64-linux-gnu/libwrap.so.0 (0x00007fedac9e6000)
```

```
sshd: <ip>: <ip>
```

EX:

```
sshd : 192.168.1.100
vsftpd : 192.168.1.*
vsftpd : ALL

sshd : 192.168.1.1,192.168.8.*
```

1. hosts.allow hosts.deny

1. hosts.allow hosts.deny
2. any ip local ip EXCEPT

## shell

```
n=1
m=2
echo $n+$m
1+2 shell
```

```
n=1
m=2
echo=$((n+m))
3
```

```
env
```

```
echo $PATH #
```

```
env #
```

```
set #shell
```

```
export #shell
```

```
a=asd #shell
```



# rkhunter rootkit

1

```
sudo apt install rkhunter
```

2

```
sudo rkhunter --check
```

3

```
sudo rkhunter --propupd
```

4

5

```
ALLOWDEVFILE={}
```

6

```
ALLOWHIDDENDIR={}
```

7

```
ALLOW_FILE_ATTRIBUTES_CHANGE={}
```

8

9 "&"

10

11 ( )

12 (12)

13 1&&2 12

14 1;2

15

```
sudo mount -t cifs -o username=<win_share_user>,password=<win_share_password>
//WIN_SHARE_IP/<share_name> /mnt/win_share
```

## fstab

```
defaults,cifs defaults,uid=,gid=,username=,password=,iocharset=utf8 0 0
```

**EX: 1. fstab smb vers = { 1.0:2.0:3.0 }**  
**2. mount \040**

img -o loop

```
sudo mount -o loop {img} {}
```

## mountpoint

```
mountpoint <>
```

mail

**-q:**

## mail

```
mail -s "This is the subject" somebody@example.com <<< 'This is the message'
mail -s "Hello World" user@yourmaildomain.com < /home/user/mailcontent.txt
echo "This is the message body" | mail -s "This is the subject" mail@example.com
mail -s "Hello World" user1@example.com,user2@example.com
```

**-B** (BCC)

**-C** (CC)

**-a**From:Harry\<harry@gmail.com\>

## tasksel

( )

```
apt install fcitx5 fcitx5-chewing
```

( )

im-config

fcitx5-mozc

taskset xfc4ntu xfce fail to start session

gdm3

```
sudo apt install gdm3
```

```
sudo systemctl set-default graphical
```

or

```
sudo systemctl set-default graphical.target
```

```
dpkg-reconfigure tzdata
```

## iptables

```
sudo ufw allow proto tcp from 192.168.56.0/24 to 192.168.56.203 port 22
```

ICMP

input ICMP DROP

```
vi /etc/ufw/before.rules
```

```
# ok icmp codes for INPUT
-A ufw-before-input -p icmp --icmp-type destination-unreachable -j DROP
-A ufw-before-input -p icmp --icmp-type time-exceeded -j DROP
-A ufw-before-input -p icmp --icmp-type parameter-problem -j DROP
-A ufw-before-input -p icmp --icmp-type echo-request -j DROP
```

port



```
addresses: [10.0.2.15/24] # IPv4
gateway4: 10.0.2.1 # IPv4 Gateway ip
nameservers:
  addresses: [8.8.8.8,8.8.4.4] # DNS server ip
dhcp4: no # dhcp IP
# Host only enp0s8
enp0s8:
  addresses: [192.168.56.101/24] # IPv4
  routes:
  - to: 192.168.56.1/24
    via: 192.168.56.1
    metric: 100
  #gateway4: 192.168.56.1 # IPv4 Gateway ip
  #nameservers:
  #addresses: [8.8.8.8,8.8.4.4] # DNS server ip
  dhcp4: no # dhcp IP
  dhcp6: no # dhcp IP
version: 2
```

```
$: do netplan try | sudo netplan apply
```

```
network manager
```

```
network:
  version: 2
ethernets:
  NM-f52160ba-1cb2-4d49-955e-84a6f51adb8d: #
    renderer: NetworkManager
    match:
      name: "enp0s8"
      macaddress: "FF:FF:FF:E3:AD:CA" #MAC
    addresses:
    - "192.168.100.51/24"
    ipv6-address-generation: "stable-privacy"
    wakeonlan: true
    networkmanager:
      uuid: "f52160ba-1cb2-4d49-955e-84a6f51adb8d"
      name: "Ethernet connection 2"
    passthrough:
      ipv6.method: "ignore"
```

```
proxy._: ""
```

## device not managed

1

```
sudo vi /etc/NetworkManager/NetworkManager.conf
```

```
[main]
plugins=ifupdown,keyfile,ofono
dns=dnsmasq

[ifupdown]
managed=false <==true
```

```
sudo systemctl restart NetworkManager
```

```
nmcli d ---
sudo nmcli dev set (device name) managed yes ---device
```

2

```
sudo mv /usr/lib/NetworkManager/conf.d/10-globally-managed-devices.conf /usr/lib/NetworkManager/conf.d/10-globally-managed-devices.conf_orig
sudo touch /usr/lib/NetworkManager/conf.d/10-globally-managed-devices.conf
sudo systemctl restart NetworkManager
nmcli d ---
```

## wifi radio

```
nmcli r wifi on
```

wifi

```
nmcli d wifi list
```



```
curl -o {url} {url} #save
curl -O -C {url} #cookie
curl -O --limit-rate {url} {url} #limit--max-filesize{url}
```

## curl

```
curl -L {url} #follow
curl -v {url} #verbose
curl -X {GET|POST|DELETE|PUT} {url}
curl -H 'key:value' {url} #header
EX:curl -H 'Accept-Language: en-US' -H 'Secret-Message: xyzzy' http://www.example.com/test

curl -X POST -d '{key:value}' {url}
EX:curl -d '{"user":"zhangsan", "password":"123456"}' -H 'Content-Type:application/json'
http://www.example.com/login

curl -F 'name1=1;name2=2' {url} #form
```

curl -F 'file=@photo.png;type=image/png' https://google.com/profile  
Content-Type: multipart/form-data  
application/octet-stream

curl -F 'file=@photo.png;filename=me.png' https://google.com/profile

curl -F 'file=@photo.png;type=image/png' https://google.com/profile

curl -F 'file=@photo.png;filename=me.png' https://google.com/profile

curl -F 'file=@photo.png;filename=me.png' https://google.com/profile

```
curl -A 'user-agent' {url} #Agent
curl -b '{url}' {url} #cookie
curl -u 'user[:password]' {url} #user:password
```

## curl

```
curl {url} --verbose --tlsv1.2 --tls-max 1.2
```

## Proxy

```
wget [url] ~/.wgetrc [url]
```

```
use_proxy=yes
http_proxy=http://proxy.yoyodyne.com:18023/
```

```
wget -e use_proxy=yes -e http_proxy=http://proxy.yoyodyne.com:18023/ http://www.example.com/
```

```
use_proxy=on
http_proxy=http://username:password@proxy.server.address:port/
https_proxy=http://username:password@proxy.server.address:port/
ftp_proxy=http://username:password@proxy.server.address:port/
```

## Flush BOTH DNS caches

You can do it alltogether, just copy and paste on a terminal:

```
sudo systemd-resolve --flush-caches
sudo nscd -i hosts
```

## letsencrypt

letsencrypt

```
certbot certonly --webroot --webroot-path=/var/www/html -d www.domain.com
```

## rdp linux

client xrdp

```
sudo apt install xrdp
```

## firewall 3389

```
/etc/xrdp/startwm.sh Xsession
```

```
unset DBUS_SESSION_BUS_ADDRESS
unset XDG_RUNTIME_DIR
```

```
root
```

```
02:52:37.658 Main Warn could not connect to display :11.0
```

```
02:52:37.658 Main Info Could not load the Qt platform plugin "xcb" in "" even though it was
```



**AAA-A-RRR-t-ff-a**

## resize

1. `growpart`
2. `resize2fs`
1. **ext4**

```
growpart /dev/sda 2
#2 partition 2
resize2fs /dev/sda2
```

`growpart` `cloud-guest-utils` `resize` `e2fsck`

## find

```
find ( ) -name ( ) ( -iname )
```

```
find ./ -name \*.c -exec grep -wnHA5 main {} \;
```

`-type d`: `f`: `l`:

`-perm` `ex:find . -type f -perm 0666 -perm !`

`-exec` `ex:find . -type f -name " " -exec rm -f {} \;` `find / -type d -perm 777 -print`

`{}` `\;`

`-empty`

`-user``-group` ( )

`-nouser``-group` ( )

`-path`

`-maxdepth`

`-mindepth`

`-lnks`

`-newer file` file

`-used`

`-ok`

`-printf format`

`\a` `\b`

`\c` `\f`

`\n` `\r`

`\t` `\v`

`\` `\NN`

`\NN` ASCII `\NNN` ( )

`\NN` `\NN`

`\NN` `\NN`

`\NN` `\NN`

`\NN` ASCII `\NNN` ( )



```

%i [ ]( )
%m [ ](8 )
%n [ ]
%p [ ]
%P [ ]
%s [ ]
%t [ ]C `ctime'[ ]
%Tk [ ]k[A ]
%u [ ]D
%U [ ]D
[ ]`%'( )
    -mtime(-mmin) [ ] ex:find /home -type f -mtime 7 ( [ ] atime[ ]amin[ ]ctime[ ]ci
mtime +7 -mtime -14[ ]7[ ]14[ ]
    -size [ ] ex:find /home -type f -size 50M([ ]+[ ]-[ ]) ex:find /home -type f -size +50M -200M
find "[ ]" -name "*.php" -exec grep -H "[ ]" { } \; [ ]
find . -type f -mtime -3 | grep -v "( )" | grep -v "[ ]" [ ]3[ ]
    ! expr [ ]false[ ]ture[ ]-not
    -a(-and) [ ]
    expr1 -o(-or) expr2 1[ ]2

```

[ ]

grep [ ] [ ]

```

ls ([ ])|grep [ ] [ ]
[ ]-i [ ]
    -n [ ]
    -V [ ]
    -r [ ]
    -e PATTERN, -regexp=PATTERN
    -E, -extended-regex
    --include [ ]
    -A(B;C) [ ];[ ] ex:grep -A 2 tt test.txt [ ]2[ ]
[ ]

```

df -h | grep -vE '^Filesystem|tmpfs' | awk '{ print \$1 " " \$5 }' [ ]Filesystem[ ]tmpfs[ ]1,5[ ]

grep -n \$query \$file | awk -F:' ' '{print \$1}' [ ]

'PATTERN' or "PATTERN"  
grep -e 'root' /etc/passwd

```
root:x:0:0:root:/root:/bin/bash
(PATTERN1 | PATTERN 2 )
grep -e '(root|www)' /etc/passwd
[Char] , [^Char]
grep -e b[^e]n /etc/group
```

```
[:alnum:] # [A-Z,a-z,0-9]
[:alpha:] # [A-Z,a-z]
[:lower:] # [a-z]
[:upper:] # [A-Z]
[:digit:] # [0-9]
[:xdigit:] # [0-9,A(10),B(11),C(12),D(13),E(14),F(15)]
[:space:] # [ ] , [Tab] , [CR]
[:graph:] # [ ] ( [Tab] ) .
[:print:] # [ ] , [ ] .
[:cntrl:] # [ ] .
[:punct:] # [ ] .
^ , $
grep -e "^ben" /etc/passwd root@ubuntu:~# grep -e "bash$" /etc/passwd
```

\{\}

```
x\{m\} [ ] x [ ] m . '0\{5\}' [ ] 0 [ ] 5 [ ] .
x\{m,\} [ ] x [ ] m . '0\{5\}' [ ] 0 [ ] 5 [ ] ( [ ] ) .
x\{m,n\} [ ] x [ ] m . '0\{1,5\}' [ ] 0 [ ] 1( [ ] ) [ ] 5( [ ] ) [ ] .
[a-z]\{m,n\} [ ] a-z [ ] m . 'a-z\{1,5\}' [ ] 0 [ ] 1( [ ] ) [ ] 5( [ ] ) [ ] .
```

#ifconfig [ ] IP , Bcast [ ] Mask [ ] .

```
ifconfig ens33 | grep -e "[0-9]\{1,3\}\.[0-9]\{1,3\}\.[0-9]\{1,3\}\.[0-9]\{1,3\}"
inet addr:172.16.15.130 Bcast:172.16.15.255 Mask:255.255.255.0
```

the package lists or status file could not be parsed or opened

```
sudo rm /var/lib/apt/lists/* -vf
sudo apt-get clean
sudo apt-get update
```

kazam

```
sudo apt install kazam
sudo apt install openshot ( )
```

## cron (CRON) info (No MTA installed, discarding output)

```
crontab -e
crontab -l
crontab -r
crontab -u user
crontab -u user -e
crontab -u user -l
crontab -u user -r
```

## cron

```
crontab -e
crontab -l
crontab -r
crontab -u user
crontab -u user -e
crontab -u user -l
crontab -u user -r
```

## last

```
last
last (name)
-n
-F
-ad
-s
-t
```

## mutt

```
apt install mutt
```

```
vim ~/.muttrc
```

```
set from = "XXXX@yourdomain.com"
set realname = "XXX"
set smtp_url = "smtps://XXXX@yourdomain.com@mail.yourdomain.com:465/"
set smtp_pass = "PASSWORD"
set header_cache = "~/.mutt/cache/headers"
set message_cachedir = "~/.mutt/cache/bodies"
```



```
echo 'ALERT - Root Shell Access (PVE) on:' `date` `who` | mail -s "Alert: Root Access from `who` | cut -d'(' -f2 | cut -d')' -f1`" (root)
```

root

```
md5sum sha256sum
md5sum (root)
md5sum -c (root)
```

root

```
root Bash root$`root`
```

date root

```
date --date="now" rootdate
date --date="yesterday" (rootdate --date="1 days ago")
date --date="3 days ago" root
date --date="tomorrow" rootdate --date="1 days"
date --date="3 days" root
date +"%Y %_m-%_d, %H:%_M" --date="3 days" root"root"+"root"
```

root

```
root$(date +"%Y_%m_%d" --date="now")root
```

```
"_" 0root
```

```
"-" 0root
```

```
"^" root
```

```
%a locale's abbreviated weekday name (e.g., Sun)
%A locale's full weekday name (e.g., Sunday)
%b locale's abbreviated month name (e.g., Jan)
%B locale's full month name (e.g., January)
%c locale's date and time (e.g., Thu Mar 3 23:05:25 2005)
%C century; like %Y, except omit last two digits (e.g., 21)
%d day of month (e.g, 01)
%D date; same as %m/%d/%y
%e day of month, space padded; same as %_d
%F full date; same as %Y-%m-%d
%g last two digits of year of ISO week number (see %G)
%G year of ISO week number (see %V); normally useful only with %V
%h same as %b
%H hour (00..23)
%I hour (01..12)
%j day of year (001..366)
%k hour ( 0..23)
```

%l hour ( 1..12)  
 %m month (01..12)  
 %M minute (00..59)  
 %n a newline  
 %N nanoseconds (000000000..999999999)  
 %p locale's equivalent of either AM or PM; blank if not known  
 %P like %p, but lower case  
 %r locale's 12-hour clock time (e.g., 11:11:04 PM)  
 %R 24-hour hour and minute; same as %H:%M  
 %s seconds since 1970-01-01 00:00:00 UTC  
 %S second (00..60)  
 %t a tab  
 %T time; same as %H:%M:%S  
 %u day of week (1..7); 1 is Monday  
 %U week number of year, with Sunday as first day of week (00..53)  
 %V ISO week number, with Monday as first day of week (01..53)  
 %w day of week (0..6); 0 is Sunday  
 %W week number of year, with Monday as first day of week (00..53)  
 %x locale's date representation (e.g., 12/31/99)  
 %X locale's time representation (e.g., 23:13:48)  
 %y last two digits of year (00..99)  
 %Y year  
 %z +hhmm numeric timezone (e.g., -0400)  
 %:z +hh:mm numeric timezone (e.g., -04:00)  
 %::z +hh:mm:ss numeric time zone (e.g., -04:00:00)  
 %:::z numeric time zone with : to necessary precision (e.g., -04, +05:30)

date -r [ ] [ ]

ex [ ] date -r test.txt +%F date -r test.txt +%Y-%m-%d %H:%M:%S'

## read [ ]

read -s -n1 -p "[ ] ... "

read -p "[ ]" [ ] [ ]p [ ]

read -t N [ ] [ ]-t [ ]

[ ]

cp ( [ ] ) [ ]

[ ]

-r [ ]

-p [ ]

-a [ ]

rsync ( [ ] ) [ ]

[ ]

-a [ ]



-z [options]  
-h [options]  
-i [options]  
-l [options]  
-p [options]  
-t [options]  
-g [options]  
-o [options]  
-D [options]  
-q -quiet[options]  
-c -checksum[options]checksum[options]mod-time[options]size  
-R -relative[options]  
-u -update[options]  
-d -dirs[options]  
-l -links[options]  
-L -copy-links[options]  
-copy-unsafe-links [options]  
-safe-links [options]  
-k -copy-dirlinks[options]  
-K -keep-dirlinks[options]  
-H -hard-links[options]  
-A -acls[options]ACL[options]-perms[options]  
-t -times[options]  
  
--bwlimit [options]  
--delete [options]  
--exclude [options]  
--include [options]  
--min-size [options]  
--max-size [options]  
--remove-source-files [options]  
--existing [options]  
--whole-file [options]  
--progress [options]  
-del -delete-during[options]  
-delete-before [options]  
-delete-during [options]  
-delete-delay [options]  
-delete-after [options]  
-delete-excluded [options]  
-ignore-errors [options] / O[options]  
-force [options]  
-max-delete = NUM[options]  
-partial [options]  
-partial-dir = DIR[options]  
-delay-updates [options]



-6 -ipv6 IPv6

-version

-h -help -h -help

**rsync -avh /home/ron user@ipaddr:**

**rsync -avzh -e "ssh -p " / /**

**rsync server " " EX:rsync -avh /home/ron user@ipaddr::**

## SCP

```
scp -r username@hostname:
```

## ssh

ssh-keygen

-t EX:rsa

-b 3072

1:

```
ssh-copy-id -i key_path username@ipaddr
```

2:

server ~/.ssh/authorized\_keys

/etc/ssh/sshd\_config

PasswordAuthentication no

### sshd\_config

port 22 #ssh

listenaddress 0.0.0.0 #ip

hostkey /etc/ssh/ssh\_host\_key #

authorizedkeysfile #

serverkeybits 1024 #

loggingracetime 600 #

keygenerationinterval 3600 #

compression no #delay

MaxAuthTrues 3 #

PermitRootLogin no #rootssh

Printlastlogin yes #

clientaliveInterval 900 #

```
clinetalivecountmax 0 #[]
allowusers username #[]
denyusers username #[]
allowgroups username #[]
denygroups username #[]
peremptypassword no #[]
ignorerhosts yes #[]Rhost[]
ignoreuserknownhosts yes #[]known_hosts[]
hostbasedauthentication no #[]
x11forwarding no #[]gui[]ssh[]
strictmodes yes #[]
pubkeyauthentication yes #[]
GSSAPIauthentication no #[]GSSAPI[]
kerberosauthentication no #[]kerberos[]
Ciphers aes128-ctr,aes192-ctr,aes256-ctr #[]
MACs hmac-sha2-256,hmac-sha2-512 #[]
Banner [] #[]
passwordauthentication yes #[]
```

```
authorized_keys[] 600 ~/.ssh []700
```

ssh []

sshpass

sshpass -p 'password' ssh username@ipaddr 'cmd'

export SSHPASS='password' #[]/etc/profile [] \$HOME/.profile[]

ssh -e ssh username@ipaddr 'cmd'

rename 's/[]/[]/' []

```
rename 's/[]/[]/' []
```

EX:rename 's/DSC\_/4inlibra-Ron-[]-/' \*.JPG

nfs[]

nfs server[]

sudo apt install nfs-kernel-server

```
sudo apt install nfs-kernel-server
```

sudo apt install nfs-kernel-server

```
sudo netstat -tulnp | grep rpcbind #111udp/tcp
udo netstat -tuln | grep :2049 #nfs2049tcp/udp
```

```
vi /etc/exports #client
```

##### NFS( )

```
ex:/home/magiclen/shared-files 192.168.56.104(rw,sync,no_subtree_check)
192.168.100.0/24(ro,sync,no_subtree_check) *.4inlibra.com(ro,sync,no_subtree_check)
```

#####

- rw
- ro
- root\_squash NFS root(UID=0) root(GID=0) NFS UID GID 65534
- no\_root\_squash NFS root root NFS
- all\_squash FS root root NFS UID GID 65534
- no\_all\_squash NFS root root NFS
- no\_subtree\_check(subtree\_check) subtree\_check
- nohide exported

tree( /exports/home) ( /exports) (/exports/home)

- crossmnt exported tree nohide
- fsid NFS ID ID 0 root ID fsid=0 fsid=root

#####

```
sudo exportfs -r
```

```
ll-a -r -ua
```

#####

```
sudo exportfs
```

#####

```
showmount
```

##

- --exports
- --directories
- --all

nfs client

##

```
sudo apt install nfs-common
```



```
sudo chmod 600 / #  
sudo mkswap /#swap  
sudo swapon /() #swap
```

fstabswap

```
swapoff /swap
```

## swap

```
vi /etc/sysctl.conf
```

```
vm.swappiness = 10 # 010060
```

## 

```
dpkg --get-selections | grep mongodb #  
sudo apt-mark hold mongodb mongodb-dev #  
sudo apt-mark auto mongodb-dev #  
sudo apt-mark unhold mongodb-dev #  
sudo apt-mark manual mongodb-dev #  
sudo apt-mark showhold #  
sudo apt-mark showmanual #  
sudo apt-mark showauto | more #
```

deb

```
sudo apt install --fix-missing
```

## Ubuntu Kernel

<http://kernel.ubuntu.com/~kernel-ppa/mainline/> #kernel  
#-lowlatency kernel lowlatency -generic-rt -preempt -generic

```
grep "menuentry 'Ubuntu' /boot/grub/grub.cfg #kernel  
sudo nano /etc/default/grub #GRUB_DEFAULT=0   
sudo update-grub #
```



```
done
```

```
#!/bin/bash
echo -n "████████:"
read F
for ((i=1 ; i<=F ; i++))dotouch $i.js
echo $idone
echo "████ $F ██████"
```

## while

```
#!/bin/bash
echo -n "████████:"
read FINDEX=1
# ████████████e██████
while [ $INDEX -le $F ]
do
  # ███
  touch $INDEX.js
  echo -n "$INDEX"
  # INDEX ████
  (( INDEX++ ))
done
echo ""echo "████ $F ██████"
```

```
#!/bin/bash
echo "██ Ctrl + C ██..."LENGTH=0
while :
do
  echo -ne "\r["
  sleep 0.2
  while [ $LENGTH -le 10 ]
  do
    sleep 0.1
    echo -n ">"
    (( LENGTH++ ))
  done
  LENGTH=0
  echo -en "\r          "
done
```

□□□□□□

```
#!/bin/bash
echo -n "□□□□□□□□□□"
read FNINDEX=1
while read line
do
    echo "□□□□□: $line"
    (( INDEX++ ))
done <$FN
```

```
#!/bin/bash
echo -n "□□□□□□□:"
read F
counter=0
until [ $counter = $F ]; do
    ((counter++)) #□□□□□□□□
    echo $counter
    touch $counter.js
done
echo "□□□□ $F □□□□□"
```

dd□□□□□

```
sudo dd if=/dev/sda of=/dev/sdb
```

```
□□□□□conv□□□□sync□□/O sync□□noerror□□□□□
□□□□*.img□.iso□□□□□□□□□□□□□□
```

e2fsck□□□□□□□□

```
e2fsck -a -y /dev/sda1 □□□□□□□□
```

□□□

- a: □□ partition□□□□□□□□□□□□
- b: □□ superblock □□□
- B size: □□ size □□□□□□□
- c: □□ partition □□□□□□

-C file: [ ] file [ ]  
-d: [ ] e2fsck debug [ ]  
-f: e2fsck [ ] -f [ ]  
-F: [ ] buffer cache [ ]  
-l list: [ ] list [ ]  
-d : [ ] e2fsck [ ] debug [ ]  
-f : [ ]  
-n: [ ] (read-only) [ ]  
-p: [ ] -a [ ]  
-v: [ ]  
-y: [ ]

[ ]

```
sudo apt install gthumb
```

---

Revision #34

Created 14 September 2024 08:57:24 by Ron

Updated 15 January 2026 09:27:21 by Ron