

???????



2025-05-13 19:21:52

??????



[??](#)

[??\(?172?\)](#)

1?????

????????????10???????? ?????????? ?????????????? ????????????????????? ?????????
???????????????? ????????????? ???
???????????????? ????????????????? ???
??

2????????????????????????????????????

???????????? ?????????????? ?????????? ????????????????? ????????????? ????????????????? ??????
???????????? ????????????????? ????????????? ??? ?

???????

```
IP Route commands ( Networking ) :
ip l : show interfaces link addresses
ip l set addr <address> dev <dev> : change link address of device
ip a : show interfaces ip addresses
ip a del <ip> dev <dev> : del ip address to device
ip r : show routes
ip r * : show IP routes
ip r add to <dev> via <gateway> dev <dev> : add new route
ip tunnel add <name> mode <mode> local <ip> remote <ip> : create tunnel
ip maddr : show multicast memberships

Misc Networking :
arp : show arp cache
ss -at : list all listening sockets
lsof -i : show all open network sockets on the system
cat 1 > /proc/sys/net/ipv4/ip_forward : activate packet forwarding

File Operations :
file <file> : show file type
stat <file> : show all filesystem information about the file

vim commands :
Motions :
gg - move to end of previous word
G - move to end of previous WORD
H - move to hard beginning of line ( column 1 ), enter insert mode
m - move to character in the middle of the screenline
zt - redraw, cursor line at top of window
zm - redraw, cursor line at middle of window
zb - redraw, cursor line at bottom of window

Pulldown :
F<motion> : create fold for <motion> text ( min 2 lines )
za : open fold
zc : close fold
za : toggle open/close fold
example : Ffat - create fold around tags

Misc :
resplit <filenames> : split vertically and edit file in the new window
Cw s : create vertical split
Cw <h,i,p,s> : move to window at relative position from active window
!&& hold : put all open buffers to tape

Filesystem :
cat /etc/passwd : show mounted filesystem
ls -l <file> : show program using <file>
ls -l <file> <device> : show file's filesystem on device accessed by <device>
ls -l <file> <device> : show file's filesystem on device accessed by <device>
df <file> : show partition size, used space, free space, mounting point of the partition where <file> is

System :
system / <dev> / <process> : show containing useful information on process(es) and memory and system, permits expert fine-tuning of the test.
lsb -l : list all hardware
lsb -C <class> : list all <class> hardware
lsb -l : list all pci devices
lsb -l : list all usb devices
dmesg : print kernel logs, hardware and tech talk

Keyboard :
mapkeys <keys.map> : map kernel keyboard map to file <keys.map>
loadkeys <keys.map> : load keyboard map into kernel

Vt's, TTY's and X :
screen : launch command, launch command on first vt available
ctrl N : change current foreground vt to N, (created if not existed)
deadkey : kill all pressed vt's
startx -- : launch X server on display :2, with graphic environment
xinit -- : launch X server on display :2, with an xterm
xauth : view/print Xauthority file
xhost - : disable all ACLs on X server, use with care ( or not at all )

Screen :
C+ | : vertical split of current region into two new ones
C+ <TAB> : switch the focus to the next region
C+ x : kill current region
C+ Q : kill all regions but the current one
C+ N : show the number and title of the current window
C+ Ck : kill the current window
C+ A : enter the title of the current window
C+ <ESC> : enter copy/cut/paste mode, allows vi-like way to make and copy
C+ z : suspend screen.
```

????????? ?? ?????????? ???????????????
????????????? ?????????????????????????? ?????????? ?????????????????? ?????????????????? ?
????????????????? ?????????? ?????????????? ?????????? ?????????? ?????????????????? ?

????????????????????? ?????????? ?????????? ?

?? ?????????? ?????????? ?????????????? ?????????????? ?????????? ?

????????????????? ?????????????????????? ?????????????? ?????????????????? ?????????????????? ???
????????? ??????????????????24????????? ?????????????????????? ?????????????? ?????????? ????
????????????? ?????????????????????????????? ?????? ?

2.1?????????

????????????????? ?????????? ?????????????????????? ?

????????????????????? ?????????????????????? ?????????????????????????????????????? ?

2.2???????

????????????????? ?????? ?????????? ?????????????? ?????????????????? ?????????????????????? ?

???????



???????

?????????? ???? ????? ???? ????? ????? ????? ????
???? ???? ????? ???? ???? ?

3?????

?? ???? ???? ???? ???? ????????????????????? ????
???????? ???? ???
???????????? ????24???? ???? ???
??? ????????????? ???? ????????????????????????????????? ?

4?????

[?? word?????????????.doc ??????????????](#)
[???????????????? PDF?????????????.pdf ?????????????? ?????????????? ??????????](#)
[????????????????????????????????????](#)

????

????

- ? ?????
- ?????1970-01-01 08:00:00
- ? ?????
- ? ? ??????????
- ? ??¥49.00 ?
- ? ? ??????????????

???????



????

-
-
-

??45???



????

[illegible]

???

[illegible]

??

-?? 4????????? ??????“?????”???????????????? ???? ??? ?

???????



??????????????



??????



????????

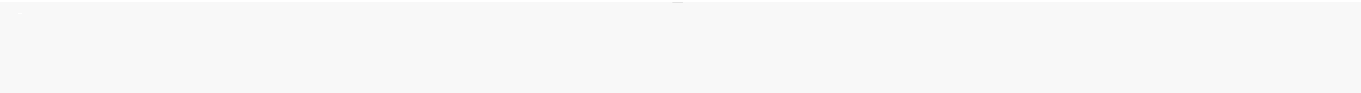
???????



[????????](#)



[??????????????](#)



????
0166?
[??](#)

?????????
[??](#) | [????](#)