

network

- 1.ifconfig -a ifconfig iwconfig iwlist (inter_name) scan/scanning
- 2.rfkill list rfkill block/unblock *index* ifconfig inter_name up/down ifup
inter_name ifdown inter_name
- 3.dhclient inter_name ifconfig inter_name parameters iwconfig inter_name
parameters
- 4./etc/init.d/networking /etc/network/interfaces
- 5.hostname /etc/hosts
- 6./etc/resolv.conf nslookup domain nslookup -qf=ns xx.xx dig domain host
domain
- 7.route -n arp -n
- 8.ping -c N ip traceroute -n ip
9. sctp_darn -H <local_IP> -P <local_port> -l sctp_darn -H <local_IP> -P
<local_port> -h <remote_IP> -p <remote_port> -s sctp_test -H <local_IP> -P
<local_port> -h <remote_IP> -p <remote_port> -s sctp_test -H <local_IP> -P
<local_port> -l

disk/partition

- 1.fdisk -l fdisk disk partprobe mkfs -t ext3
- 2.mount -l df mount umount
- 3.mdadm --create /dev/mdx --auto=yes --level=0/1/5 --raid-devices=m
--spare-devices=n devices(m+n)
mdadm --detail /dev/mdx
mdadm --manage /dev/mdx --add device --remove device
mdadm --stop /dev/mdx
mdadm --assemble /dev/mdx
rm /dev/mdx
- 4.lvm
 - ① partition - pv(physical volume) - vg(volume group)/pe(physical extend) - lv(logic volume)
 - ② pvcreate partition pvremove partition pvscan pvdisplay

③vgcreate -s 16m vg_name pv_names vgrename vg_name vextend vg_name
pv_name vgreduce vg_name pv_name vgscan vgdisplay

④lvcreate -l number_pe -n lv_name vg_name lvremove /dev/vg_name/lv_name
lvresize -l +/-number_pe /dev/vg_name/lv_name
lvextend -l +number_pe /dev/vg_name/lv_name
lvreduce -l -number_pe /dev/vg_name/lv_name
resize2fs /dev/vg_name/lv_name
lvscan lvdisplay

tarball

1.tar -zcvf tar -zxvf 2../configure(--help) ---Makefile 3.make clean 4.make
5.make check 6.make install /usr/local/

runlevel&terminal

1.who who am i tty chvt n = (ctrl-)alt+Fn ctrl+alt+backspace
2.runlevel init x(0 3 5 6) /etc/inittab
3.startx -- :n init 5
4.shutdown -P now reboot halt poweroff sync exit/quit

process

1.ps aux ps -l top pstree -Aup ps -ef pstree -H <PID>
2.pidof command_name kill -9 pid killall -9 command_name
3. ps -A -o stat,ppid,pid,cmd | grep -e 'bjenb03' | awk '{print \$3}' | xargs kill -9 kill
-HUP xxx

service

1./etc/init.d/script start/restart/stop/status service service_name
start/restart/stop/status service --status-all systemctl start/restart/stop/status
service_name systemctl list-units --type=service
2. netstat -tulnp cat /etc/services
local address -- 0.0.0.0/*:listen all interface | 127.0.0.1/*:only listen lo interface
3.chkconfig --list chkconfig service_name on/off update-rc.d service_name
defaults update-rc.d service_name remove systemctl enable service_name
systemctl disable service_name

file&directory

- 1.chgrp chown chmod -R 755 umask umask 022 (file:666 dir:777)
- 2./etc/selinux/config setenforce getenforce
- 3.service iptables service ufw
- 4.cd ls -al mkdir rmdir touch ln cp mv rm -r or \rm -r
- 5.pwd -p basename dirname history
- 6.cat file vim more less od
- 7.which command whereis command type command updatedb locate file
- 8.find /local_stg/lterbsFtp_up/up -noleaf -maxdepth 1 -mtime +90 -type d -name "CXP102051*" | xargs rm -rf
- 9.man info iconv -l iconv -f gbk -t utf8 xx > yy
- 10.df -h du -sh ./ * du -sh ./
11. scp -p <port> -r /xx/xx/ ejqizng@ip:/xx/xx rsync -arv --delete /xx/xx /yy/yy/
rsync -arv --delete /xx/xx/ /yy/yy/

user

- 1.su - sudo sudo passwd root
- 2.groupadd xx useradd -G/-g xx xx usermod -A/-R/-G/-g xx -u xx -l xx -d xx xx
passwd xx id xx groupmod -g xx -n xx xx userdel xx groupdel xx chown
chgrp
- 3.grep xx /etc/passwd grep xx /etc/group /etc/sudoers

system

- 1.uname -r uname -a hostname uptime free dmesg vmstat lspci lsusb
- 2./lib/modules/\$(uname -r)/modules.dep /lib/modules/\$(uname -r)/kernel/xx.ko
depmod lsmod modinfo mod_name modprobe mod_name modprobe -r
mod_name
- 3.watch ntpq -p
- 4./etc/exports service rpcbind start service nfsserver start exportfs -arv
exportfs -anv rpcinfo -p rpcinfo -p <server-IP> showmount -a showmount -e
showmount -e <nfs-server-IP> tail /var/lib/nfs/etab mount -t nfs xx:x xxx
- 5.fuser -m /proj/lterbsdailytest umount -l/-f /proj/lterbsdailytest

6. `more /proc/cpuinfo | grep processor | wc -l`
7. `[1,2,&] >/>> &[n],file,&-,/dev/null 0 < &[n],file`
8. `free -m/-g <total = code/data + buffers + cached + free> top`
`<"1","b","x","shift+</>"> echo $0 echo $$`
9. `@reboot` - Run once, at startup; `@yearly/@annually` - Run once a year, "0 0 1 1 *";
`@monthly` - Run once a month, "0 0 1 * *"; `@weekly` - Run once a week, "0 0 * * 0";
`@daily/@midnight` - Run once a day, "0 0 * * *"; `@hourly` - Run once an hour, "0 * *
* *"

daemon

1. generally the shell will send *HUP* signal to *all child process* when shell logout/exit
2. `ctrl+z jobs fg %<job_num> bg %<job_num> kill -9 %<job_num> /xx/xx &`
3. `nohup /xx/xx & disown -h %<job_num> -> exit`
4. `setsid /xx/xx (/xx/xx &)`
5. `start-stop-daemon --start --background --exec /usr/bin/java -- -jar`
`/home/bruce/Desktop/jenkins.war start-stop-daemon --stop --name java`
6. `screen -list/-ls screen -dmS <screen_name> screen -r <screen_name> screen`
`-d/screen -d <screen_name> exit screen -x ctrl+a,ctrl+d ctrl+a,ctrl+c`
`ctrl+a,ctrl+p/ctrl+a,ctrl+n ctrl+a,ctrl+a exit`

Inode

1. `stat xx df -i ls -li xx`
2. `ln xx xx ln -s xx xx rm -rf xx`

Shell Variable

1. `set <var/lower-case>=<value> set local_variable`
2. `export <var/upper-case>=<value> setenv <var/upper-case> <value> env`
global_variable
3. `echo $xx unset <var>`
4. `/etc/profile /home/xx/.profile source /xx/xx`
5. `alias`

vm tools

`liunx:lsmod | grep vmhgfs /sbin/mount.vmhgfs`

```
.host:/share-name  mount -t vmhgfs .host:/share-name
```

```
windows:\\vmware-host\Shared Folders\share-name
```