

## network

1. `ifconfig -a` `ifconfig` `iwconfig` `iwlist (inter_name) scan/scanning`
2. `rftkill list` `rftkill 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`
10. **interface:** `/etc/sysconfig/network/ifcfg-ethx`, `BOOTPROTO:static/dhcp` **route:** `/etc/sysconfig/network/routes` **DNS:** `/etc/resolv.conf`  
DHCP: `/var/lib/dhcp/dhclient*-ethx.lease`
11. `dhcpd: /var/lib/dhcp/dhclient.leases` `/etc/dhcpd.conf` `option routers 192.168.4.1, option domain-name-server 10.185.56.40, option ntp-server 150.236.57.81, subnet 192.168.0.0 netmask 255.255.0.0 {}, host bjg2enb01 {}`

## 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

③ vgcreate -s 16m vg\_name pv\_names vgremove vg\_name vextend vg\_name  
pv\_name vgreduce vg\_name pv\_name vgscan vgdisplay

④ lvcreate -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/

12. tftp -g/-p -r/-l file host

### **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 kill -9 <PID> screen -wipe  
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**

linux:lsmod | grep vmhgfs    /sbin/mount.vmhgfs

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

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