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 -M do -s 2000 -c N ip(linux) ifconfig eth0 mtu 2000 ping -f -l 2000 -n 2 ip(windows) netsh interface ipv4 show subinterfaces, netsh interface ipv4 set subinterface "xx" mtu=2000 store=persistent traceroute -n ip
- 9. sctp_darn -H <local_IP> -P <local_port> -I 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> -I
- 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 -I 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

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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 vgextend 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
lyscan lydisplay
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/thread
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
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4. ps auxH ps -efL ps -efLm ps -AL -o stat,pid,ppid,lwp,cmd htop(shift+H, t)

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 netstat -in netstat -rn 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 Is -al mkdir rmdir touch In 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. more /proc/cpuinfo | grep processor | wc -l
- 5. [1,2,&] >/>> &[n],file,&-,/dev/null 0 < &[n],file
- 6. free -m/-g <total = code/data + buffers + cached + free> top <"1","b","x","shift+</>"> echo \$0 echo \$\$
- 7. @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.crtl+z jobs fg %<job_num> bg %<job_num> kill -9 %<job_num> /xx/xx & -> childprocess
- 3.nohup /xx/xx & disown -h %<job_num> -> exit
- 4.setsid /xx/xx (/xx/xx &) -> grandprocess, then adopt by init
- 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 -i 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

NFS

- 1./etc/exports service rpcbind start service nfsserver start exportfs -v(list) exportfs -arv(re) exportfs -auv(shut) rpcinfo -p rpcinfo -p <server-IP>
- 2. showmount -a(connected) showmount -e(list) showmount -e <nfs-server-IP> tail /var/lib/nfs/etab
- 3. /etc/fstab mount -a unmount -a mount -t nfs xx:x xxx
- 4. df -h mount -l
- 5.fuser -m /proj/lterbsdailytest umount -l/-f /proj/lterbsdailytest

NTP

- 1. hwclock –show hwclock –systohc hwclock –hctosys date
- 2. watch ntpq –p /etc/ntp.conf service ntpd
- 3. ntpdate <IP> ntpdate -d <IP> sntp -P no -r <IP> sntp -w <IP>
- 4. /etc/localtime /usr/share/zoneinfo/Asia/Shanghai Beijing

Performance

- 1. iostat -x 2 vmstat 2 mpstat -P ALL 2 free -g top htop
- 2. pidstat -u 2 pidstat -d 2 pidstat -rh 2 (-t : show thread on)
- 3. pmap <PID>
- 4. sar -u(CPU) -n(network) DEV -n EDEV -b(I/O) -B(paging) -S(swap) 2
- 5. sysctl -p sysctl -a sysctl net/net.ipv4 /proc/sys/xx/xx /etc/sysctl.conf