lsmod

modinfo drm

cd /dev

43 ls -l sd\*

ldd $(which passwd )

root@fedora fd]# ll /proc/13575/fd

total 0

lrwx------ 1 root root 64 May 12 00:16 0 -> /dev/pts/3

lrwx------ 1 root root 64 May 12 00:16 1 -> /dev/pts/3

lrwx------ 1 root root 64 May 12 00:16 2 -> /dev/pts/3

strace

xxd -l 512 /dev/sda >> ends with 55aa

/boot/grub2/grub.cfg -- DO NOT EDIT THIS FILE

/etc/grub.d/10\_linux

vim /etc/default/grub >>

grub2-mkconfig -o /boot/grub2/grub.cfg

file /boot/initramfs-3.10.0-514.el7.x86\_64.img

zcat /boot/initramfs-3.10.0-514.el7.x86\_64.img | cpio -i --no-absolute-filename

vim /etc/dracut.conf

dracut

/usr/lib/systemd/system/sshd.socket >>> chache port

systemd-analyze plot > /tmp/out.html

Is -i - inod

root@server ~]# ls -il /dev/mapper/cl-root

8535 lrwxrwxrwx. 1 root root 7 May 16 11:48 /dev/mapper/cl-root -> ../dm-0

debugfs: stat <8504> ( 8504 inod number)

less /proc/meminfo

echo 3 > /proc/sys/vm/drop\_caches ; free -m

vmstat 2 5

swapon -s

echo 90 > /proc/sys/vm/swappiness - make the kernel swap faster 100 is max normal is 60ish

echo 6000 > /proc/sys/vm/dirty\_expire\_centisecs - change the write from buffer to disk to 6000 (1 min)

valgrind --tool=cachegring ls - check memory cach on ls ( look at D1 miss rate: 3.3% ( 3.8% + 2.1% )

valgrind --tool=memcheck ls - check memory leak on ls ( look at definitely lost )

On top command type f for fild and add the P column (cpu core number )

taskset -cp 0 $(pidof dd) -- send task to cpu 0 on dd

echo 0 > /sys/bus/cpu/devices/cpu3/online -- disable cpu3

Ps fax - porsess id parent and child

Kill -s SIGCHLD ( parent pid ) - kill zombie

chrt - manipulate the real-time attributes of a process

Set policy:

chrt [options] <priority> <command> [<arg>...]

ll /proc/32296/fd/ - see open files and sockets ( on pid 32296)

Cat /proc/32296/cmdline - see what is starting the process

Lsof -U -- list open files by PID

cat /proc/32296/oom\_score --- memory limit before killing process

/proc/32296 less status --- can see pwap and much more

setfacl -m d:u:david:rwx /root/ - d for default

Chown +t /home/david - sticky bit ( only the owner of the file cat delete files )

chattr +i /data/david/david -- cant delete this file ( chattr -i /data/david/david to cancel it )

grep AVC /var/log/audit/audit.log

Ls -Z

Netstat -Ztulpn --- with selinux

dmidecode - is a tool for dumping a computer's DMI (some say SMBIOS

dmesg | less

less /var/log/boot.log

lsinitrd - tool to show the contents of an initramfs image

Lsscsi - nne

udevadm monitor

udevadm info --attribute-walk --name=/dev/sdc

/lib/udev/rules.d - systemc udev rules

/etc/udev/rules.d/ -- add your own rules

udevadm trigger [options] [devpath|file...]

Request device events from the kernel. Primarily used to replay events at system coldplug

time.

cat /sys/block/sda/queue/scheduler

udevadm info --query=all --name=/dev/sda

Make menuconfig --- make ur kernel >> make (to compill) >> make install (to install )

Lsmod - kernel mods

modinfo - Show information about a Linux Kernel module

modprobe - Add and remove modules from the Linux Kernel

Modprobe (module name) - to add a module

Modprobe -r --- to remove the module

cat /proc/sys/kernel/tainted --- if more then 0 the kernel is tainted ( preparatory modules are loded )

echo h > /proc/sysrq-trigger - u can see the help in dmesg

echo 1 > /proc/sys/vm/laptop\_mode

echo 1 > /proc/sys/net/ipv4/icmp\_echo\_ignore\_all -- cancel ping

sysctl - configure kernel parameters at runtime

sysctl -a | grep lapto

vim /etc/systemd/system/multi-user.target.wants/sshd.service --

nc -l 2345 on the server ( l for listening ) nc server ip 2345

strace -c ls

ltrace -c ls

perf - Performance analysis tools for Linux

Perf top

systemctl set-property httpd.service CPUShares=600 MemoryLimit=500M

xfs\_bmap - print block mapping for an XFS file

filefrag -v /usr/bin/passwd

xfs\_fsr - filesystem reorganizer for XFS ------ xfs\_fsr -v file

qperf - on server side On lesing side qperf 10.0.0.100 tcp\_bw tcp\_lat

/usr/lib/systemd/system/system.slice --- read about system slice ( cpu priority )

udevadm monitor - monitor