

09 - Cheatsheet des commandes du cours

Installation et déploiement

```
ksvalidator /path/to/kickstart.ks
```

```
inst.ks=http://<IP>/kickstarts/ks.cfg
```

```
livecd-creator --verbose --config=file.ks --fslabel=Image-Label --cache=/var/cache/live  
qemu-system-x86_64 -m 2048 -vga qxl -cdrom filename.iso  
dd if=/path/to/image.iso of=/dev/sdX bs=8M status=progress oflag=direct
```

RAID et LVM

```
mdadm --create /dev/md0 --level=5 --assume-clean --raid-devices=3 /dev/sd[bcd]1
pvcreate /dev/md0
vgcreate data1 /dev/md0
lvcreate -n Vol1 -L 4G data1
mkfs.ext4 /dev/data1/Vol1
```

Clonage et sauvegarde

```
parted -l > disk.bck  
cat /etc/fstab > fstab.bck  
dd if=/dev/sda5 of=/mnt/backup_drive/sda5_root.img  
e2fsck -f sda5_root.img  
resize2fs -M sda5_root.img  
chroot /mnt/root grub-install /dev/sda
```

RPM et bibliothèques

```
file paquet.rpm
rpm -qpi paquet.rpm
rpm -qpl paquet.rpm
rpm2cpio paquet.rpm | cpio -idmv
ldd /usr/bin/ls
ldconfig -p
export LD_LIBRARY_PATH=/usr/local/mylib:$LD_LIBRARY_PATH
```

Mises à jour sécurité

```
dnf upgrade && dnf clean all
dnf system-upgrade download --releasever=<version>
dnf system-upgrade reboot
yum updateinfo list updates security
yum update --security
```

Disque et filesystems

```
df -h
df -i
du -sh /var/log
du -Sh /var/log
fsck /dev/sdb1
fsck -t ext4 /dev/sdb1
e2fsck -f /dev/sdb1
tune2fs -l /dev/sdb1
tune2fs -j /dev/sdb1
xfs_repair -n /dev/sdb1
xfs_repair /dev/sdb1
xfs_db /dev/sdb1
xfs_fsr /point/de/montage
```

Récupération

```
ddrescue /dev/sdX image_disque.img image_disque.log  
grep -a -C 200 -F 'Une ligne du fichier' /dev/sdXN > OutputFile
```

/dev, udev, matériel

```
ls -l /dev/sd*  
udevadm info --query=all --name=/dev/sda  
udevadm info --attribute-walk --name=/dev/sda  
udevadm monitor  
lscpu  
lspci -nn  
lspci -k  
lsusb  
lsmod  
modinfo <module>  
modprobe <module>  
modprobe -r <module>
```

Noyau et initramfs

```
make mrproper
make menuconfig
make -j$(nproc)
make modules_install
make install
lsinitrd
lsinitramfs /boot/initrd.img-$(uname -r)
```

sysctl

```
sysctl --all  
sysctl kernel.sysrq  
sysctl kernel.sysrq=1  
echo 1 > /proc/sys/kernel/sysrq
```

Logs et métrologie

```
free -h  
vmstat 1  
iostat  
sar
```

GRUB et boot

```
dd if=/dev/sda of=boot.mbr bs=512 count=1
dd if=boot.mbr of=/dev/sda bs=512 count=1
dd if=/dev/sda of=pg.mbr bs=1 count=440
objdump -D -b binary -mi386 -Maddr16,data16 pg.mbr
mount -o rw,remount /
passwd root
```

Performance

```
cat /proc/<PID>/maps
cat /proc/<PID>/status
memstat -w
memstat -p <PID>
smem
smem --pie name -s rss
systemd-analyze
systemd-analyze blame
systemd-analyze critical-chain
systemd-analyze plot > boot.svg
```

Nagios / NRPE

```
apt-get install nagios-nrpe-plugin  
/etc/init.d/nagios-nrpe-server start
```

```
allowed_hosts=<IP_du_serveur_Nagios>  
command[check_sda1]=/usr/lib/nagios/plugins/check_disk -w 20 -c 10 -p /dev/sda1
```

```
define service{  
    use                generic-service  
    host_name          hera  
    service_description disk check  
    check_command       check_nrpe_1arg!check_sda1  
}
```