



PROCESS BASICS

All processes, with params + hierarchy

```
ps auxww -H
```

Show all ruby-related PIDs and processes

```
pgrep -fl ruby
```

What is a process doing?

```
strace -f -p $PID
```

What files does a process have open?
(also detects ruby version of a process)

```
lsdf -p $PID
```

Flavors of kill

```
kill xxxx
```

```
kill xxxx yyyy zzzz
```

```
pkill <name of process>
```

```
pkill -f <word in processname>
```

Keep an eye on a process

```
watch 'ps aux | grep ruby'
```

TIPS N TRICKS

Run Previous command as root

```
sudo !!
```

Change to last working dir

```
cd -
```

Run something forever

```
while true;do ruby ghetto.  
rb;done
```

MEMORY

How much mem is free?

```
free -m
```

```
cat /proc/meminfo
```

Are we swapping?

First line is avg since boot.

```
vmstat 1
```

List the top 10 memory hogs

```
ps aux --sort=-resident|head -11
```

Detect OOM and other bad things

```
for i in messages kern.log  
syslog; do egrep -i "s[ie]  
g[o(m|p)s]" /var/log/${i}{,}.0};  
done
```

Disable OOM killer for a process

```
echo -17 > /proc/$PID/oom_adj
```

TERMINAL & SCREEN

Start a screen session as the current user

```
screen -x
```

Join/re-attach to a screen session

```
screen -r
```

Record a terminal session

```
script filename.out 2> filename.  
timing
```

Playback a recorded terminal session

```
scriptreplay filename.timing  
filename.out
```

DISK/FILES

Check reads/writes per disk

```
iostat -xmk 5
```

Files (often logs) marked for deletion but not yet deleted

```
lsdf | grep delete
```

Overview of all disks

```
df -h
```

Usage of this dir and all subdirs

```
du -hs
```

Find files over 100MB

```
find . -size +100M
```

Low hanging fruit for free space. Check /var/
log too!

```
ls -al /tmp
```

Find files created within the last 7 days

```
find . -mtime -7
```

Find files older than 14 days

```
find . -mtime +14 -type f -name  
'*.gz'
```

Delete files older than 14 days

```
find *.gz -mtime +14 -type f  
-exec rm {} \;
```

Monitor a log file for an IP or anything else

```
tail -f file.log | grep  
192.168.1.1
```

NETWORK

TCP sockets in use

```
lsdf -nPi tcp
```

Get IP/Ethernet info

```
ip addr
```

```
ifconfig
```

host <=> IP resolution

```
host 192.168.1.1
```

```
host MyRouter
```

Curl, display headers (I), follow redirects (L)

```
curl -LI http://google.com
```

Traceroute with stats over time (top for
traceroute) Requires install

```
mtr google.com
```

Traceroute TCP to avoid ICMP blockage

```
tcptraceroute google.com
```

List any IP blocks/rules

```
iptables -L
```

Drop any network requests from IP

```
iptables -I INPUT -s  
66.75.84.220 -j DROP
```

Show traffic by port

```
iftop
```

Show all ports listening with process PID

```
netstat -tlnp
```

D/L speed test (don't run in prod! :)

```
wget cacheify.cacheify.  
net/100mb.test -O /dev/null
```