OpenVZ Cheatsheet

:: Get Template

Browse precreated templates:
- lynx http://download.openvz.org/template/precreated/

Get specific template:
- cd /vz/template/cache/
- wget distribution-date-arch.tar.gz

:: VPS Creation Walkthrough

Create VPS from template:
- vzctl create id --ostemplate distribution-date-arch

Set VPS to boot on host startup:
- vzctl set id --onboot yes --save

Start VPS for further configuration:
- vzctl start id

Set VPS hostname:
- vzctl set id --hostname id.myvps.com --save

Set VPS network settings:
- vzctl set id --ipadd 192.168.0.2 --save
- vzctl set id --nameserver 192.168.0.254 --save

Set password for root user:
- vzctl exec id passwd

Start SSHd:
- vzctl exec id /etc/init.d/sshd start

:: Advanced VE configuration

Get VE quota:
- vzquota stat id

Double VE disk space quota:
- vzctl set id --diskspace $((soft*2)):$((hard*2))

Double VE inode quota:
- vzctl set id --diskinodes \
  $((soft*2)):$((hard*2))

Get UBC values:
- cat /proc/user_beancounters

Get UBC values for specific VE:
- egrep -A23 '^[[:space:]]+${id}:' \
  /proc/user_beancounters

Double UBC values:
- vzctl set id --param $((barrier*2)):$((limit*2))

Validate configuration:
- vzcfgvalidate /etc/vz/conf/id.conf

Go directly into the VE:
- vzctl enter id

Stop the VE:
- vzctl stop id

:: VPS Ressources

Primary parameters:
- numproc   Maximum number of processes and kernel-level threads (b=l)
- numtcpsock   Maximum number of TCP sockets (b=l)
- numothersock   Maximum number of non-TCP sockets (b=l)
- vmguarpages   Memory alloction guaranteed (b/l=MAX_ULONG)

Secondary parameters (all related to memory):
- kmemsize   Size of unswappable memory (Bytes), allocated by the operating system kernel (b<limit)
- tcpsndbuf   Total size of buffers used to send data over tcp network connections
- tcprcvbuf   Total size of buffers used for storing incoming tcp network connections data
- othersockbuf   Total size of buffers used by local connections inside the system
- dgramrcvbuf   Total size of buffers used to store incoming packets (e.g. UDP)
- oomguardpages Guaranteed amount of mem if over-booked (out-of-memory kill guarantee)
- privvmpages   Memory allocation limit of applications

Auxiliary parameters (advanced):
- lockedpages   Process pages not allowed to be swapped
- shmpages   Total size of shared memory
- physpages   Total number of RAM pages used by processes in VEs
- numfile   Number of open files
- numflock   Number of file locks
- numpty   Number of pseudo-terminals
- numsiginfo   Number of siginfo structures
- dcachesize   Total size of dentry, inode structures locked in mem
- numiptent   Maximum number of NETFILTER entries

:: Important Files + Information

Actual limits:
- /proc/user_beancounters

Disk quotas for VEs:
- /proc/vz/vzquota

Weblinks:
- http://wiki.openvz.org
- http://gentoo-wiki.com/HOWTO_OpenVZ