

This page will document my experience with Proxmox which you might think as web-based version of vz-tools.

Qucik tips

Console using vncviewer

```
proxmox1:~# grep vnc /etc/inetd.conf
5901 stream tcp nowait root /usr/sbin/qm qm vncproxy 101 password-for-this-vnc-connection
```

```
t=0x09709878 [0,0]
```

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This is somewhat interesting story, because I ended up migrating PVE installation on internal laptop disk to enable dual boot. First, I installed PVE on external USB drive (which wiped out mbr on internal disk, sic!) and than archived all files from it to move it to internal disk.

Installed system had following partitions:

```
/dev/mapper/pve-root on /mnt/pve type ext3 (rw)
/dev/sdb1 on /mnt/pve/boot type ext3 (rw)
/dev/mapper/pve-data on /mnt/pve/var/lib/vz type ext3 (rw)
```

So I re-created volume grup `pve` and logical volumes.

I have following partitions on my laptop:

```
root@tab:~# fdisk -l /dev/hda
```

```
Disk /dev/hda: 100.0 GB, 100030242816 bytes
255 heads, 63 sectors/track, 12161 cylinders
Units = cylinders of 16065 * 512 = 8225280 bytes
Disk identifier: 0x3b7f0ef5
```

Device	Boot	Start	End	Blocks	Id	System
/dev/hda1	*	1	1305	10482381	83	Linux
/dev/hda2		1306	1436	1052257+	83	Linux
/dev/hda3		1437	1567	1052257+	82	Linux swap / Solaris
/dev/hda4		1568	12161	85096305	5	Extended
/dev/hda5		1568	4178	20972826	8e	Linux LVM
/dev/hda6		4179	6789	20972826	83	Linux

```
/dev/hda7          6790          9400          20972826      83  Linux
/dev/hda8          9401         12161         22177701      83  Linux
```

and I wanted to use /dev/hda2 as boot and /dev/hda5 for lvm

lvm

```
root@tab:~# pvcreate /dev/hda5
  Physical volume "/dev/hda5" successfully created
root@tab:~# vgcreate pve /dev/hda5
  Volume group "pve" successfully created
root@tab:~# lvcreate -L 1G -n root pve
  Logical volume "root" created
root@tab:~# lvcreate -L 10G -n data pve
  Logical volume "data" created
```

create file systems

```
root@tab:~# mke2fs -j -m 0 /dev/hda2
root@tab:~# mke2fs -j -m 0 /dev/pve/root
root@tab:~# mke2fs -j -m 0 /dev/pve/data
```

mount fs

```
root@tab:~# mkdir /mnt/pve/
root@tab:~# mount /dev/pve/root /mnt/pve/
root@tab:~# mkdir /mnt/pve/boot
root@tab:~# mount /dev/hda2 /mnt/pve/boot/
root@tab:~# mkdir -p /mnt/pve/var/lib/vz
root@tab:~# mount /dev/pve/data /mnt/pve/var/lib/vz/

root@tab:~# df
Filesystem          1K-blocks      Used Available Use% Mounted on
/dev/mapper/pve-root 1032088        34104   997984    4% /mnt/pve
/dev/hda2           1035692        34108   1001584    4% /mnt/pve/boot
/dev/mapper/pve-data 10321208      154232  10166976    2% /mnt/pve/var/lib/vz
```

unpack installation

```
root@tab:~# cd /mnt/pve/
root@tab:/mnt/pve# tar xvfj /mnt/usb/proxmox-ve_1.1-3664.tar.bz2

root@tab:/mnt/pve# df
Filesystem          1K-blocks      Used Available Use% Mounted on
/dev/mapper/pve-root 1032088      521128   510960   51% /mnt/pve
/dev/hda2           1035692        50868   984824    5% /mnt/pve/boot
/dev/mapper/pve-data 10321208      154268  10166940    2% /mnt/pve/var/lib/vz
```

grub

add Proxmox target into /boot/grub/menu.lst after END DEBIAN AUTOMAGIC KERNELS LIST

```
root@tab:~# tail -10 /boot/grub/menu.lst
title          Debian GNU/Linux, kernel memtest86+
root           (hd0,0)
kernel        /boot/memtest86+.bin

### END DEBIAN AUTOMAGIC KERNELS LIST

title          Proxmox Virtual Environment, kernel 2.6.24-2-pve
root           (hd0,1)
kernel        /vmlinuz-2.6.24-2-pve root=/dev/mapper/pve-root ro
initrd        /initrd.img-2.6.24-2-pve
```

preference df

```
proxmox:~# df
Filesystem      1K-blocks      Used Available Use% Mounted on
/dev/pve/root   2064208        556244   1507964   27% /
/dev/sda2       2063536         52640   1906072    3% /boot
/dev/mapper/pve-data 20642428      407420   20235008    2% /var/lib/vz
```