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Subject: container to physical standalone machine  
Posted by [teekien](#) on Thu, 09 Sep 2010 05:07:43 GMT  
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Hi everyone,

I was wondering if anyone has managed to load an OpenVZ container onto a standalone physical machine. (V2P instead of P2V)

I have looked for references, but cannot find any.

Thank you for any replies.

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Subject: Re: container to physical standalone machine  
Posted by [maratrus](#) on Thu, 09 Sep 2010 15:01:00 GMT  
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Hello,

I'd never done v2p before you mentioned it but your post made me curious. So here is the quick report of the experiment that I conducted.

Prerequisites.

Assume a standalone Linux box or virtual machine running OpenVZ is under consideration. Lets call it a Node.

The final goal and methods to achieve it.  
It would be great to make one of the VEs running on the Node be not a virtual but a physical machine.  
For the sake of simplicity I did it in the following way:

1. An additional hard disk was attached to the Node.
2. A partition was created and formatted as ext3 filesystem.
3. VE's image was moved to that partition.
4. Appropriate kernel and initrd images were put to that partition and menu.lst on the Node was fixed in such a way that the chosen kernel is loaded and "root filesystem" is pointed to the newly created partiton.

Technical issues.

- 1-2. I omit the first two steps as it doesn't have anything with OpenVZ. So, suppose /dev/hdb1 is the newly created partition.
- 3.

SOME PRELIMINARIES.

```
# vzlist -a
  CTID   NPROC STATUS  IP_ADDR   HOSTNAME
  101    16 running - -
  102    16 running - -
  103    19 running - -
# cat /etc/vz/conf/103.conf | grep -i OSTEMPLATE
OSTEMPLATE="centos-5-x86"
# tune2fs -L v2p /dev/hdb1
# mount -t ext3 LABEL=v2p /mnt/
```

PLEASE, MAKE SURE BEFORE SYNCING VE's IMAGE THAT  
vzdummy\* PACKAGES ARE REMOVED FROM INSIDE THE VE  
AND KERNEL, MKINITRD and UDEV PACKAGES ARE INSTALLED)

```
# rsync -arvpz --numeric-ids /vz/root/103/ /mnt/
```

CHANGING /etc/fstab.

```
# cat /mnt/etc/fstab
LABEL=v2p          /                ext3 defaults    1 1
tmpfs              /dev/shm         tmpfs defaults    0 0
devpts            /dev/pts         devpts gid=5,mode=620 0 0
sysfs             /sys            sysfs defaults    0 0
proc              /proc           proc  defaults    0 0
```

MODIFY /mnt/etc/inittab IN THE WAY AS  
IT IS DONE ON THE NODE.

CREATE INITRD IMAGE WITH APPROPRIATE MODULES (CHECK THE INITRD ON THE NODE  
[http://wiki.openvz.org/Modifying\\_initrd\\_image](http://wiki.openvz.org/Modifying_initrd_image))  
IN MY CASE

```
# chroot /mnt/
# mkinitrd --with=scsi_mod --with=sd_mod --with=libata --with=ata_piix
/boot/initrd-2.6.18-194.11.3.el5.img 2.6.18-194.11.3.el5
```

MODIFY menu.lst on the Node

```
# cat /boot/grub/menu.lst
title Centos-VE (2.6.18-194.11.3)
  root (hd1,0)
  kernel /boot/vmlinuz-2.6.18-194.11.3.el5 ro root=LABEL=v2p rhgb
  initrd /boot/initrd-2.6.18-194.11.3.el5.img
```

It was enough to me to boot that CentOS based VE.  
I expect you may have other issues with v2p but the  
general idea might be enough to cope with all problems  
that might arise.

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