Subject: [Fedora 9] switch root: mount failed: no such file or directory
Posted by kipu on Wed, 15 Oct 2008 08:27:06 GMT

Hi everybody,

I have a problem when installing OpenVZ on Fedora 9. See details below:

rpm -qa | grep ovz
ovzkernel-2.6.18-92.1.1.el5.028stab057.2.i686

fdisk -l

Disk /dev/sda: 7516 MB, 7516192768 bytes
255 heads, 63 sectors/track, 913 cylinders
Units = cylinders of 16065 * 512 = 8225280 bytes
Disk identifier: 0x00007492

```
   Device Boot    Start      End     Blocks   Id  System
/dev/sda1   *      1       191    1534176   83  Linux
/dev/sda2         192      256     522112+  82  Linux swap / Solaris
/dev/sda3         257      913    5277352+  83  Linux
```


cat /etc/fstab
```
/dev/sda1  /              ext3    defaults      1 1
/dev/sda3  /vz            ext3    defaults      1 2
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
/dev/sda2  swap           swap    defaults      0 0
```


ls /boot
```
config-2.6.18-92.1.1.el5.028stab057.2     initrd-2.6.25-14.fc9.i686.img
System.map-2.6.25-14.fc9.i686
config-2.6.25-14.fc9.i686             initrd-openvz-no-scsi.img
vmlinux-2.6.18-92.1.1.el5.028stab057.2
efi                        new-initrd.img
vmlinuz-2.6.18-92.1.1.el5.028stab057.2
grub                       symvers-2.6.18-92.1.1.el5.028stab057.2.gz
vmlinuz-2.6.25-14.fc9.i686
initrd-2.6.18-92.1.1.el5.028stab057.2.img  System.map-2.6.18-92.1.1.el5.028stab057.2
```


cat /boot/grub/menu.lst

```
# grub.conf generated by anaconda
#
# Note that you do not have to rerun grub after making changes to this file
# NOTICE:  You do not have a /boot partition.  This means that
#          all kernel and initrd paths are relative to /, eg.
#          root (hd0,0)
#          kernel /boot/vmlinuz-version ro root=/dev/sda1
#          initrd /boot/initrd-version.img
#boot=/dev/sda
default=0
timeout=5
splashimage=(hd0,0)/boot/grub/splash.xpm.gz
hiddenmenu
title OpenVZ (2.6.18-92.1.1.el5.028stab057.2)
 root (hd0,0)
 kernel /boot/vmlinuz-2.6.18-92.1.1.el5.028stab057.2 ro root=/dev/sda3 vga=0x303
 initrd /boot/initrd-openvz-no-scsi.img
title Fedora (2.6.25-14.fc9.i686)
 root (hd0,0)
 kernel /boot/vmlinuz-2.6.25-14.fc9.i686 ro root=UUID=829512e2-91e7-4e67-9f92-24eced8ee9a3
vga=0x303
 initrd /boot/initrd-2.6.25-14.fc9.i686.img
```

```
# cat /etc/sysctl.conf
# Kernel sysctl configuration file for Red Hat Linux
#
# For binary values, 0 is disabled, 1 is enabled.  See sysctl(8) and
# sysctl.conf(5) for more details.

# Controls IP packet forwarding
net.ipv4.ip_forward = 1

# Controls source route verification
net.ipv4.conf.default.rp_filter = 1

# Do not accept source routing
net.ipv4.conf.default.accept_source_route = 0

# Controls the System Request debugging functionality of the kernel
kernel.sysrq = 1

# Controls whether core dumps will append the PID to the core filename.
# Useful for debugging multi-threaded applications.
kernel.core_uses_pid = 1

# Controls the use of TCP syncookies
net.ipv4.tcp_syncookies = 1
```

net.ipv4.conf.default.proxy_arp = 0

# Enables source route verification
net.ipv4.conf.all.rp_filter = 1
#
# We do not want all our interfaces to send redirects
net.ipv4.conf.default.send_redirects = 1
net.ipv4.conf.all.send_redirects = 0

cat /etc/sysconfig/selinux

# This file controls the state of SELinux on the system.
# SELINUX= can take one of these three values:
# enforcing - SELinux security policy is enforced.
# permissive - SELinux prints warnings instead of enforcing.
# disabled - No SELinux policy is loaded.
SELINUX=disabled
# SELINUXTYPE= can take one of these two values:
# targeted - Targeted processes are protected,
# mls - Multi Level Security protection.
SELINUXTYPE=targeted

The initrd-openvz-no-scsi.img is created by command:

mkinitrd --omit-scsi-modules -f /boot/initrd-openvz-no-scsi.img 2.6.18-92.1.1.el5.028stab057.2

But the follow messages appear when I reboot:
Quote:
Mounting root filesystem.
mount: could not find filesystem '/dev/root'
Setting up other filesystems.
Setting up new root fs
setuproot: moving /dev failed: No such file or directory
no fstab.sys, mounting internal defaults
setuproot: error mounting /proc: No such file or directory
setuproot: error mounting /sys: No such file or directory
Switching to new root and running init.
unmounting old /dev
unmounting old /proc
unmounting old /sys
switchroot: mount failed: No such file or directory
Booting has failed.

I have tried:

- modify initrd image follow this guide: http://wiki.openvz.org/Modifying_initrd_image
- Open init file and change "mount /sysroot" to:
mount -t ext3 -o defaults,ro /dev/sda3 /sysroot
- replace initrd-openvz-no-scsi.img with new-initrd.img in menu.lst

but the above messages still appear and I cannot boot to OpenVZ.

Anyone help me? Thank in advance.