
Subject: Suse VPS mount issues

Posted by [rollinw](#) on Fri, 07 Jul 2006 15:44:03 GMT

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After creating VPSs for 2 Suse templates (suse-9.3-x86_64 and opensuse-10-x86_64-default) I found that both showed incorrect mount information, both from the `df -k` command and the `mount` command. In both cases the `/etc/fstab` file had the wrong information.

I searched for evidence that others had found this problem, but didn't find any reports or posts. The answer to my problem was found in the document on Slackware Template Creation.

http://wiki.openvz.org/Slackware_template_creation

Before making the changes described below, one should stop the VPS, if it is running:

```
/usr/sbin/vzctl stop nnn
```

Look in the document section,

Preparing the new VE

Getting the filesystem ready to run in a VE.

"Delete the file `/etc/mtab` and make it a symlink to `/proc/mounts`"

This is the key to solving the problem, because the VPS needs to get its mount information from `/proc/mounts`

```
rm /vz/private/nnn/etc/mtab
```

```
ln -s /proc/mounts /vz/private/nnn/etc/mtab
```

Clean the `/etc/fstab` file

```
echo -n > /vz/private/nnn/etc/fstab
```

Slightly slower ways to accomplish the same goal are 1) edit the `fstab` file manually and delete all lines, or 2) with the commands:

```
rm -f /vz/private/nnn/etc/fstab
```

```
touch /vz/private/nnn/etc/fstab
```

(make sure the permissions on the new empty `fstab` file are the same as on the old one)

Edit `/etc/rc.d/rc.S`

It was necessary to modify the procedure slightly because of minor differences between Slackware and Suse. Suse does not have an `rc.S` file. Instead it uses script files whose names start with `bootxxx`. Suse has 2 files in `/etc/rc.d/` that need to be edited; these are `bootlocalfs` and

bootrootfsck. The edit action is almost the same: put a # character before any line that has

```
rm -f /etc/mtab(*)
```

In one of these files, the line containing the remove command had some other files as well. I deleted /etc/mtab from this list.

The Slackware document contains a number of other procedures too, but I was primarily interested in solving the mount problem.

After the changes are made, the VPS can be started:

```
/usr/sbin/vzctl start nnn
```

Log into the VPS with ssh.

Check the file /etc/fstab to make sure it is still empty:

```
cat /etc/fstab
```

Check that the link exists from /proc/mounts to /etc/mtab

```
ls -l /etc/mtab
```

Verify that mount and df -k correctly show that simfs is mounted on / (the root filesystem) and has the correct disk allocation.

Good luck
rollinw