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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](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/mstab` 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/mstab  
ln -s /proc/mounts /vz/private/nnn/etc/mstab
```

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