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Subject: Accessing the HN thermal modules from the Container

Posted by [vidhya](#) on Thu, 25 Jun 2009 19:24:32 GMT

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I am new to OpenVZ and so far I have liked it a lot. The Quick installation guide is extremely useful. I am trying to run a thermal emulation model inside a container. I have installed all the necessary packages, However, When I run the thermal emulation software which basically collects the power consumed by the components(cpu,network,disk) of the machine, I get a segmentation fault. When I run the same in the host node, I don't get any error and the software runs smoothly.

For the thermal emulation model I need to set the /dev/sda properly. However when I tried to run /dev from the container I could not get sda or hda but rather found "pts". what does that mean?

From inside the container :

```
[root@rajeshr-linux bin]# ./monitord -p 8367 -s localhost -d -v
Just defined sockaddr->sin_addr.in_addr=(100007f)
Segmentation fault
```

Is it because the container is not given access to the power modules in the host node? I have mounted three of the folders from the host node to the container using the command

```
mount --bind /root/Desktop/Mercury /vz/root/101/Mercury
```

I tried to see if the container has access and here is what I found.

Container:

```
[root@rajeshr-linux bin]# mount
/dev/simfs on / type simfs (rw)
/proc on /proc type proc (rw)
/sys on /sys type sysfs (rw)
none on /dev/pts type devpts (rw)
none on /proc/sys/fs/binfmt_misc type binfmt_misc (rw)
/dev/root on /home type ext3 (rw,data=ordered)
/dev/root on /mercury type ext3 (rw,data=ordered)
/dev/root on /periva type ext3 (rw,data=ordered)
/dev/root on /root type ext3 (rw,data=ordered)
```

What does data=ordered mean here?

Host node:

```
[root@rajeshr-linux ~]# mount
/dev/mapper/VolGroup00-LogVol00 on / type ext3 (rw)
proc on /proc type proc (rw)
sysfs on /sys type sysfs (rw)
devpts on /dev/pts type devpts (rw,gid=5,mode=620)
```

```
/dev/sda1 on /boot type ext3 (rw)
tmpfs on /dev/shm type tmpfs (rw)
none on /proc/sys/fs/binfmt_misc type binfmt_misc (rw)
sunrpc on /var/lib/nfs/rpc_pipefs type rpc_pipefs (rw)
/root/Desktop on /vz/root/100/home type none (rw,bind)
/root/Desktop/mercury_org/bin on /vz/root/100/home type none (rw,bind)
/root/Desktop/mercury on /vz/root/100/home type none (rw,bind)
/root/Desktop/mercury on /vz/root/100/home type none (rw,bind)
/root/Desktop/mercury_org on /vz/root/100/home type none (rw,bind)
/root/Desktop on /vz/root/100/Desktop type none (rw,bind)
/root/Desktop/mercury_org on /vz/root/101/home type none (rw,bind)
/root/Desktop/mercury on /vz/root/101/mercury type none (rw,bind)
/root/Desktop/periva/mercury_org on /vz/root/101/periva type none (rw,bind)
/root on /vz/root/101/root type none (rw,bind)
```

```
[root@rajeshr-linux ~]# cat /proc/mounts
/dev/root / ext3 rw,data=ordered 0 0
/dev /dev tmpfs rw 0 0
/proc /proc proc rw 0 0
/sys /sys sysfs rw 0 0
/proc/bus/usb /proc/bus/usb usbfs rw 0 0
devpts /dev/pts devpts rw 0 0
/dev/sda1 /boot ext3 rw,data=ordered 0 0
tmpfs /dev/shm tmpfs rw 0 0
none /proc/sys/fs/binfmt_misc binfmt_misc rw 0 0
sunrpc /var/lib/nfs/rpc_pipefs rpc_pipefs rw 0 0
/etc/auto.misc /misc autofs rw,fd=6,pgrp=6846,timeout=300,minproto=5,maxproto=5,indirect 0 0
-net /net autofs rw,fd=11,pgrp=6846,timeout=300,minproto=5,maxproto=5,indirect 0 0
/vz/private/100 /vz/root/100 simfs rw 0 0
/vz/private/111 /vz/root/111 simfs rw 0 0
/proc /vz/root/100/proc proc rw 0 0
/sys /vz/root/100/sys sysfs rw 0 0
none /vz/root/100/dev/pts devpts rw 0 0
/vz/private/166 /vz/root/166 simfs rw 0 0
/proc /vz/root/111/proc proc rw 0 0
/sys /vz/root/111/sys sysfs rw 0 0
none /vz/root/100/proc/sys/fs/binfmt_misc binfmt_misc rw 0 0
/proc /vz/root/166/proc proc rw 0 0
/sys /vz/root/166/sys sysfs rw 0 0
none /vz/root/166/dev/pts devpts rw 0 0
none /vz/root/111/dev/pts devpts rw 0 0
/vz/private/167 /vz/root/167 simfs rw 0 0
/proc /vz/root/167/proc proc rw 0 0
/sys /vz/root/167/sys sysfs rw 0 0
/vz/private/168 /vz/root/168 simfs rw 0 0
none /vz/root/167/dev/pts devpts rw 0 0
none /vz/root/166/proc/sys/fs/binfmt_misc binfmt_misc rw 0 0
/proc /vz/root/168/proc proc rw 0 0
```

```

/sys /vz/root/168/sys sysfs rw 0 0
none /vz/root/168/dev/pts devpts rw 0 0
none /vz/root/167/proc/sys/fs/binfmt_misc binfmt_misc rw 0 0
none /vz/root/111/proc/sys/fs/binfmt_misc binfmt_misc rw 0 0
none /vz/root/168/proc/sys/fs/binfmt_misc binfmt_misc rw 0 0
/dev/root /vz/root/100/home ext3 rw,data=ordered 0 0
/dev/root /vz/root/100/home ext3 rw,data=ordered 0 0
/dev/root /vz/root/100/home ext3 rw,data=ordered 0 0
/dev/root /vz/root/100/home ext3 rw,data=ordered 0 0
/dev/root /vz/root/100/home ext3 rw,data=ordered 0 0
/dev/root /vz/root/100/Desktop ext3 rw,data=ordered 0 0
/vz/private/101 /vz/root/101 simfs rw 0 0
/proc /vz/root/101/proc proc rw 0 0
/sys /vz/root/101/sys sysfs rw 0 0
none /vz/root/101/dev/pts devpts rw 0 0
none /vz/root/101/proc/sys/fs/binfmt_misc binfmt_misc rw 0 0
/dev/root /vz/root/101/home ext3 rw,data=ordered 0 0
/dev/root /vz/root/101/mercury ext3 rw,data=ordered 0 0
/dev/root /vz/root/101/periva ext3 rw,data=ordered 0 0
/dev/root /vz/root/101/root ext3 rw,data=ordered 0 0

```

```

[root@rajeshr-linux ~]# cat /etc/fstab
/dev/VolGroup00/LogVol00 / ext3 defaults
1 1
LABEL=/boot /boot ext3 defaults 1 2
devpts /dev/pts devpts gid=5,mode=620 0
0
tmpfs /dev/shm tmpfs defaults 0 0
proc /proc proc defaults 0 0
sysfs /sys sysfs defaults 0 0
/dev/VolGroup00/LogVol01 swap swap defaults
0 0

```

```

[root@rajeshr-linux ~]# vzctl exec 101 cat /etc/mtab
/dev/simfs / simfs rw 0 0
/proc /proc proc rw 0 0
/sys /sys sysfs rw 0 0
none /dev/pts devpts rw 0 0
none /proc/sys/fs/binfmt_misc binfmt_misc rw 0 0
/dev/root /home ext3 rw,data=ordered 0 0
/dev/root /mercury ext3 rw,data=ordered 0 0
/dev/root /periva ext3 rw,data=ordered 0 0
/dev/root /root ext3 rw,data=ordered 0 0

```

```

[root@rajeshr-linux ~]# vzctl exec 101 mount
/dev/simfs on / type simfs (rw)
/proc on /proc type proc (rw)
/sys on /sys type sysfs (rw)

```

```
none on /dev/pts type devpts (rw)
none on /proc/sys/fs/binfmt_misc type binfmt_misc (rw)
/dev/root on /home type ext3 (rw,data=ordered)
/dev/root on /mercury type ext3 (rw,data=ordered)
/dev/root on /periva type ext3 (rw,data=ordered)
/dev/root on /root type ext3 (rw,data=ordered)
```

```
[root@rajेशr-linux ~]# uname -a
Linux rajेशr-linux 2.6.18-128.1.1.el5.028stab062.3 #1 SMP Tue May 5 17:31:34 MSD 2009 i686
i686 i386 GNU/Linux
```

PLS help me!

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Subject: Re: Accessing the HN thermal modules from the Container

Posted by [maratrus](#) on Mon, 29 Jun 2009 07:52:51 GMT

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Hello,

Quote:

For the thermal emulation model I need to set the /dev/sda properly. However when I tried to run /dev from the container I could not get sda or hda but rather found "pts". what does that mean?

Have a look at "--devnodes" option of vzctl utility.

Quote:

What does data=ordered mean here?

# man mount

Quote:

Is it because the container is not given access to the power modules in the host node?

Could you please say what kernel modules have to be loaded. Please load them on the HN before using inside VE.

Quote:

```
[root@rajेशr-linux bin]# ./monitord -p 8367 -s localhost -d -v
Just defined sockaddr->sin_addr=(100007f)
Segmentation fault
```

Please examine /proc/user\_beancounters output. Are there any fail counters?

We may also use the "strace" utility. It's not clear for now what is the reason of a segmentation fault.

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