Subject: Can't start networking on a fedora-9-i386-default-20080913 VE
Posted by kwessel on Wed, 17 Sep 2008 19:41:21 GMT
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Hello,

I'm fairly new to openvz and love it so far. I've got a Fedora 9 HN and am using the2.6.24-ovz005.1 kernel. I've successfully set up FC4 and Fedora 8 VEs that work great.

Problem is when I've tried Fedora 9 VEs. I've tried several that I've found in the contrib section and elsewhere on the net, and the most common problem is that I can't make networking start inside the VE. Works fine under the FC4 and Fedora 8 systems.

I decided to focus on the fedora-9-i386-default-20080913 template from the contrib folder on the OpenVZ FTP server.

When I enter the VE, networking isn't running:

```
 [root@wolverine /]# ifconfig lo
lo        Link encap:Local Loopback
          LOOPBACK  MTU:16436  Metric:1
          RX packets:0 errors:0 dropped:0 overruns:0 frame:0
          TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:0 (0.0 b)  TX bytes:0 (0.0 b)

[root@wolverine /]# ifconfig venet0
venet0    Link encap:UNSPEC  HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
-00
          BROADCAST POINTOPOINT NOARP  MTU:1500  Metric:1
          RX packets:0 errors:0 dropped:0 overruns:0 frame:0
          TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:0 (0.0 b)  TX bytes:0 (0.0 b)
```

So, I try to start networking manually:

```
[root@wolverine /]# service network start
Bringing up loopback interface:  Error, some other host already uses address 127
.0.0.1.
                                                   [FAILED]
Bringing up interface venet0:  Error, some other host already uses address 127.0
.0.1.
                                                   [FAILED]
RTNETLINK answers: File exists
RTNETLINK answers: File exists
RTNETLINK answers: File exists
RTNETLINK answers: File exists
```

RTNETLINK answers: File exists
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I saw some similar problems in other forum posts, but they all came down to /proc being mounted incorrectly or other device files not actually existing or being device files. I checked all of that to the best of my ability, and it all looks sane to me.

Any suggestions? I'd much prefer to go with Fedora 9 than Fedora 8.

Thanks,
Keith

Subject: Re: Can't start networking on a fedora-9-i386-default-20080913 VE
Posted by maratrus on Thu, 18 Sep 2008 14:30:12 GMT
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Hello,

this issue should be fixed already.
If it's convenient for you you can get 2.6.24 kernel sources from our git repository http://git.openvz.org/.

To download sources use the command:
git clone (http|git)://git.openvz.org/pub/linux-2.6.24-openvz <destination dir>

Subject: Re: Can't start networking on a fedora-9-i386-default-20080913 VE
Posted by kwessel on Thu, 18 Sep 2008 16:15:14 GMT
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Thanks. So, do I understand correctly that the problem is the 2.6.24-ovz005.1 kernel that I installed using yum from http://download.openvz.org? And that the version of the kernel in the git repository will fix the problem? Just making sure I'm reading your reply correctly.

Thanks again, and I appreciate the speedy response!

Keith

Subject: Re: Can't start networking on a fedora-9-i386-default-20080913 VE

Posted by kwessel on Thu, 18 Sep 2008 19:11:05 GMT
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So, the kernel I grabbed from git doesn't seem to boot.

yum install git ('cause it didn't have it on the HN)
cd /usr/src
git clone git://git.openvz.org/pub/linux-2.6.24-openvz
cd linux-2.6.24-openvz
zcat /proc/config.gz >.config
make oldconfig (because I'm paranoid)
make -j2
(was successful
make modules_install

Backed up the old kernel

cd /boot
mv vmlinuz-2.6.24-ovz005.1 vmlinuz-2.6.24-ovz005.1.old
mv vmlinux-2.6.24-ovz005.1 vmlinux-2.6.24-ovz005.1.old
mv System.map-ovz005.1 System.map-ovz005.1.old

Then installed the new kernel:

cp /usr/src/linux-2.6.24-openvz/arch/i386/boot/bzImage vmlinuz-2.6.24-ovz005.1
cp /usr/src/linux-2.6.24-openvz/System.map System.map-ovz005.1

I didn't move or replace the initrd. Note that I moved the vmlinux (not vmlinuz), but didn't replace it.

Kernel seems to panic and won't boot (though I can't tell any details as it's in the datacenter and I'm half way across the country from it.)

Did I not compile this baby correctly?

Thanks,
Keith

Subject: Re: Can't start networking on a fedora-9-i386-default-20080913 VE
Posted by maratrus on Fri, 19 Sep 2008 07:16:23 GMT
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Quote:
I didn't move or replace the initrd.

But you have to create the new one.

Old initrd contains the modules that are matched to the real ovz005.1 kernel (the kernel you've got from appropriate rpm) not your self compiled one. So modprobe could fail to probe the modules that are not matched your kernel during the boot time.

It's a little bit misleading to do the following
Quote:
cp /usr/src/linux-2.6.24-openvz/arch/i386/boot/bzImage vmlinuz-2.6.24-ovz005.1

cause your kernel is not ovz005.1. it differs.

By the way, why don't you use "make install" command after "make modules_install"?

Hope this helps.

Subject: Re: Can't start networking on a fedora-9-i386-default-20080913 VE
Posted by kwessel on Fri, 19 Sep 2008 15:06:46 GMT
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Alright, I feel silly. I've always been a little hesitant to do make install on my kernel tree... I prefer to manage my own /boot contents. But when it comes to creating initrd images, it's crazy to try and do it by hand.

New kernel compiled, booted, and... Network working on my Fedora 9 VE!

Thank you SO much! This is fantastic.

Take care,
Keith
