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Subject: Invalid Kernel: FC6 Guest + Asterisk, FC10 Host

Posted by [sjdean](#) on Mon, 23 Mar 2009 16:01:41 GMT

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Im trying to run a Fedora 6 install that I rescued off some old hardware as a container on a Fedora 10 host. Both x86 versions.

When I try to start the container, I get:

Invalid Kernel, or some kernel modules not loaded

Now bear in mind, that the Fedora 6 guest, is running kernel 2.6.18, while the Fed 10 host is running 2.6.27 the devel branch downloaded from OpenVZ.

Is that the problem?

Or is the problem that the fedora 6 guest also is running Asterisk? I forget whether Asterisk has any modules that need loading.

Any thoughts?

Maybe just downgrade to Fedora 6 for the host too?

Cya  
Simon

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Subject: Re: Invalid Kernel: FC6 Guest + Asterisk, FC10 Host

Posted by [maratrus](#) on Tue, 24 Mar 2009 07:00:37 GMT

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Hello,

first of all we need to find out the service that complains about module absent.

If you think that it might be asterisk please look at these pages

[http://wiki.openvz.org/Asterisk\\_from\\_source](http://wiki.openvz.org/Asterisk_from_source)

[http://wiki.openvz.org/Asterisk\\_in\\_container\\_with\\_Debian\\_stable](http://wiki.openvz.org/Asterisk_in_container_with_Debian_stable)

[http://wiki.openvz.org/Asterisk\\_G729](http://wiki.openvz.org/Asterisk_G729)

They might be useful in this particular situation.

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Subject: Re: Invalid Kernel: FC6 Guest + Asterisk, FC10 Host

Posted by [sjdean](#) on Tue, 24 Mar 2009 13:36:51 GMT

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Well I did actually rebuild the host using CentOS 5, and the container works pretty well. Got some

minor issues with PTYs and TTYs in not being able to enter the guest or being able to SSH into the guest at start. Need to keep running MAKEDEV. Hrm.

Second issue though, I seem unable to access the HTTPS Webmin interface. Any thoughts on this?

Cheers  
Simon

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Subject: Re: Invalid Kernel: FC6 Guest + Asterisk, FC10 Host  
Posted by [maratrus](#) on Tue, 24 Mar 2009 13:47:46 GMT

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Quote:

Need to keep running MAKEDEV. Hrm.

Seems udev is running inside VE. Please, read  
[http://wiki.openvz.org/Container\\_enter\\_failed](http://wiki.openvz.org/Container_enter_failed)

Quote:

Second issue though, I seem unable to access the HTTPS Webmin interface. Any thoughts on this?

Lack of information.

It might be network related problem, netfilter related problem (check iptables rules), webmin-specific problem (in this case you'd better ask on their forum).

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Subject: Re: Invalid Kernel: FC6 Guest + Asterisk, FC10 Host  
Posted by [sjdean](#) on Tue, 24 Mar 2009 13:49:49 GMT

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My bad on the second. Although the webmin is set to start in the guest, it doesn't. Need to start it manually. May be memory related though.

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Subject: Re: Invalid Kernel: FC6 Guest + Asterisk, FC10 Host  
Posted by [maratrus](#) on Tue, 24 Mar 2009 13:54:21 GMT

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So, are you sure that starting script is actually invoked?

It might be worth adding some debug messages inside that script (don't forget to save old version before).

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Subject: Re: Invalid Kernel: FC6 Guest + Asterisk, FC10 Host  
Posted by [sjdean](#) on Tue, 24 Mar 2009 22:52:55 GMT  
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Still got the same problems with the Fedora Core 6 container I copied from a physical host.

I've installed a CentOS 5 container template from OpenVZ which works fine.

I've gone through the entire /dev of the CentOS 5 Container (102) and copied to my Fedora Core 6 Container (101) without any joy.

The last few lines of the strace -ff are:

```
[pid 19341] ioctl(4, 0x400c2e05, 0xbfacebd0) = 101
[pid 19341] setgroups32(0, []) = 0
[pid 19341] close(4) = 0
[pid 19341] open("/dev/ptmx", O_RDWR) = -1 ENOENT (No such file or directory)
[pid 19341] open("/dev/ptyp0", O_RDWR) = -1 ENOENT (No such file or directory)
[pid 19341] write(2, "Unable to open pty", 18) = 18
[pid 19341] write(2, ": No such file or directory", 27) = 27
[pid 19341] write(2, "\n", 1) = 1
[pid 19341] write(9, "\377\377\377\377", 4) = 4
[pid 19340] <... read resumed> "\377\377\377\377", 4) = 4
[pid 19340] fstat64(1, {st_mode=S_IFCHR|0620, st_rdev=makedev(136, 1), ...}) = 0
[pid 19340] mmap2(NULL, 4096, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) = 0xb7f97000
[pid 19340] write(1, "enter into CT 101 failed\n", 25enter into CT 101 failed
) = 25
[pid 19340] fcntl64(6, F_GETFL) = 0 (flags O_RDONLY)
[pid 19340] fcntl64(6, F_SETFL, O_RDONLY|O_NONBLOCK) = 0
[pid 19340] read(6, "Unable to open pty: No such file"..., 10239) = 46
[pid 19340] write(1, "Unable to open pty: No such file"..., 46Unable to open pty: No such file or
directory
) = 46
[pid 19340] read(6, 0xbface3e0, 10239) = -1 EAGAIN (Resource temporarily unavailable)
```

I've checked rc.sysinit on both, and both have the udev start line:

rc.sysinit has udev started on both

rc.sysinit:/sbin/start\_udev

/etc/udev/makedev.d/50-udev.nodes shows the following on 101:

```
tty1
tty2
tty3
tty4
```

tty5  
tty6  
loop0  
loop1  
loop2  
loop3  
loop4  
loop5  
loop6  
loop7  
parport0  
parport1  
parport2  
parport3  
net/tun  
ppp  
console  
null  
zero

while the Working system, 102, shows:

loop0  
loop1  
loop2  
loop3  
loop4  
loop5  
loop6  
loop7  
parport0  
parport1  
parport2  
parport3  
net/tun  
ppp  
console  
null  
zero

user\_beancounters show:

uid	resource	held	maxheld	barrier	limit	failcnt	
102:	kmemsize	934718	1315837	11055923	11377049		0
	lockedpages	0	0	256	256	0	
	privvmpages	3332	7240	65536	69632	0	
	shmpages	31	31	21504	21504	0	
	dummy	0	0	0	0		

numproc	12	18	240	240	0	
physpages	1940	2559	0	2147483647	0	
vmguarpages	0	0	33792	2147483647	0	
oomguarpages	1940	2559	26112	2147483647	0	
numtcpsock	4	4	360	360	0	
numflock	5	7	188	206	0	
numpty	0	0	16	16	0	
numsiginfo	0	2	256	256	0	
tcpsndbuf	35776	0	1720320	2703360	0	
tcprcvbuf	65536	0	1720320	2703360	0	
othersockbuf	6708	8620	1126080	2097152	0	
dgramrcvbuf	0	8380	262144	262144	0	
numothersock	9	11	360	360	0	
dcachesize	0	0	3409920	3624960	0	
numfile	433	584	9312	9312	0	
dummy	0	0	0	0	0	
dummy	0	0	0	0	0	
dummy	0	0	0	0	0	
numiptent	10	10	128	128	0	
101: kmemsize	3867358	4067179	11055923	11377049	0	
lockedpages	0	0	256	384	0	
privvmpages	62330	62783	65536	69632	0	
shmpages	173	173	21504	21504	0	
dummy	0	0	0	0	0	
numproc	56	61	240	240	0	
physpages	14200	14800	0	2147483647	0	
vmguarpages	0	0	33792	2147483647	0	
oomguarpages	14200	14800	26112	2147483647	0	
numtcpsock	16	17	360	360	0	
numflock	8	10	188	206	0	
numpty	0	1	16	16	0	
numsiginfo	1	4	256	256	0	
tcpsndbuf	143104	0	1720320	2703360	0	
tcprcvbuf	212992	0	1720320	2703360	0	
othersockbuf	64144	72492	1126080	2097152	0	
dgramrcvbuf	0	8380	262144	262144	0	
numothersock	46	50	360	360	0	
dcachesize	0	0	3409920	3624960	0	
numfile	1430	1491	9312	9312	0	
dummy	0	0	0	0	0	
dummy	0	0	0	0	0	
dummy	0	0	0	0	0	
numiptent	10	10	128	128	0	

While the dev folder on 101 contains:

```
[root@localhost dev]# dir
```

```
console mem  ptya1 ptya8 ptyaf ptyp6 ptypd  random ttya3 ttyaa ttyp1 ttyp8 ttypf
core  null  ptya2 ptya9 ptyp0 ptyp7 ptype  stderr ttya4 ttyab ttyp2 ttyp9 urandom
fd    port  ptya3 ptyaa ptyp1 ptyp8 ptypf  stdin  ttya5 ttyac ttyp3 ttya zero
full  ptmc  ptya4 ptyab ptyp2 ptyp9 ram    stdout ttya6 ttyad ttyp4 ttypb
initctl ptmx  ptya5 ptyac ptyp3 ptypa ram0  ttya0 ttya7 ttyae ttyp5 ttypc
kmem   pts  ptya6 ptyad ptyp4 ptypb ram1   ttya1 ttya8 ttyaf ttyp6 ttypd
kmsg   ptya0 ptya7 ptyae ptyp5 ptypc ramdisk ttya2 ttya9 ttyp0 ttyp7 ttype
```

The container cannot be entered if I simply do this from outside the container:

```
/sbin/MAKEDEV -d /vz/private/123/dev ttyp ptyp
```

But I can do this:

```
vzctl exec 101 /sbin/MAKEDEV tty
vzctl exec 101 /sbin/MAKEDEV pty
vzctl enter 101
```

At this stage, I'm thinking... Memory?

Cheers  
Simon

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Subject: Re: Invalid Kernel: FC6 Guest + Asterisk, FC10 Host  
Posted by [maratrus](#) on Wed, 25 Mar 2009 07:46:38 GMT  
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Quote:

```
[pid 19341] open("/dev/ptmx", O_RDWR) = -1 ENOENT (No such file or directory)
[pid 19341] open("/dev/ptyp0", O_RDWR) = -1 ENOENT (No such file or directory)
```

These strings show that ptmx and ptyp0 devices should exist.  
Please, do

```
# vzctl exec 101 /sbin/MAKEDEV ptmx
# vzctl exec 101 /sbin/MAKEDEV ptyp0
```

---

Subject: Re: Invalid Kernel: FC6 Guest + Asterisk, FC10 Host  
Posted by [sjdean](#) on Wed, 25 Mar 2009 09:04:58 GMT  
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Well this is the listing of dev in the container before I run the commands:

```
[root@localhost dev]# ls -al pt*
crw-rw-rw- 1 root root 5,  2 Mar 24 12:41 ptmc
crw-rw-rw- 1 root root 5,  2 Mar 24 19:35 ptmx
crw-rw-rw- 1 root tty  2, 176 Mar 24 20:05 ptya0
.
.
.
crw-rw-rw- 1 root tty  2, 191 Mar 24 20:05 ptxaf
crw-rw-rw- 1 root tty  2,  0 Mar 24 20:05 ptyp0
.
.
.
crw-rw-rw- 1 root tty  2,  15 Mar 24 20:05 ptypf
```

And in fact, I only have to run one of the commands in order to enter the container.

I either run

```
vzctl exec 101 /sbin/MAKEDEV ptmx
```

or I run

```
vzctl exec 101 /sbin/MAKEDEV ptyp0
```

I don't understand this to be honest. But I think something really strange is happening.

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