Subject: Debian 6 container not starting after vzctl/kernel upgrade
Posted by balrog77 on Mon, 09 Mar 2015 11:34:46 GMT
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Hello.

I have an old container with Debian 6, migrated from 32-bit OpenVZ NH. All was working ok for more than a year, but this night we rebooted the server (it is now, after reboot, running 2.6.32-042stab102.9 and vzctl 4.8) and this container wont start:

```
[root@cs12522 /]#vzctl start 202
Starting container...
Container is mounted
Adding IP address(es): 31.131.x.212
/bin/bash: command substitution: line 416: syntax error near unexpected token `)'
/bin/bash: command substitution: line 416: `cidr2mask $_MASK)'
Setting CPU units: 1000
Container start in progress...
[root@cs12522 /]#
```

These are running processes and tcp/ip configuration in container:

```
[root@cs12522 log]# vzctl enter 202
entered into CT 202
root@vz202:/# cat /etc/issue
Debian GNU/Linux 6.0 \n \l

root@vz202:/# ps fax
  PID TTY      STAT   TIME COMMAND
    1 ?        Ss     0:00 init [2]
    2 ?        S      0:00 [kthreadd/202]
    3 ?        S      0:00  \_ [khelper/202]
   36 ?        Ss     0:00 /sbin/getty 38400 console
   37 tty2     Ss+    0:00 /sbin/getty 38400 tty2
   38 ?        Ss     0:00 vzctl: ttyp0
   39 ttyp0    Ss     0:00  \_ -bash
   43 ttyp0    R+     0:00      \_ ps fax
root@vz202:/# ifconfig -a
lo        Link encap:Local Loopback
          LOOPBACK  MTU:65536  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)

venet0    Link encap:UNSPEC  HWaddr 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)

root@vz202:/#

Software versions:
Kernel: 2.6.32-042stab102.9
Vzctl: 4.8

Container config:
# RAM
PHYSPAGES="0:1835008"

# Swap
SWAPPAGES="0:512M"

# Disk quota parameters (in form of softlimit:hardlimit)
DISKSPACE="10485760:10485760"
DISKINODES="1000000:1000000"
QUOTATIME="0"

# CPU fair scheduler parameter
CPUUNITS="1000"
VE_ROOT="/vz/root/$VEID"
VE_PRIVATE="/vz/private/$VEID"
OSTEMPLATE="debian-6.0-x86"
ORIGIN_SAMPLE="basic"
IP_ADDRESS="31.131.x.212"
NAMESERVER="8.8.8.8 8.8.4.4"
HOSTNAME="vz202.priment.ru"
PRIVVMPAGES="unlimited"
LOCKEDPAGES="unlimited"
ONBOOT="yes"

Please help me revive the container, perhaps some additional info is needed?

Thanks in advance!

Subject: Re: Debian 6 container not starting after vzctl/kernel upgrade
Posted by kir on Tue, 10 Mar 2015 14:33:54 GMT
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First
Quote:
/bin/bash: command substitution: line 416: syntax error near unexpected token `)'
/bin/bash: command substitution: line 416: `cidr2mask $_MASK)'

this seems to be irrelevant, although strange. Can you show me the contents of /etc/vz/dists/scripts/functions around line 416?

Second, the problem you see is container's init is not starting any daemons etc. Most probably is has nothing or little to do with vzctl/kernel upgrade and is caused by in-container upgrade that went wrong (say replacing init with something else).

You can debug the starting process by running vzctl console 202 in other terminal before trying to start container -- it will show how init is trying to start stuff and most probably will reveal the errors.

Other thing to check is "vzubc 202" showing no fails

Subject: Re: Debian 6 container not starting after vzctl/kernel upgrade
Posted by kir on Tue, 10 Mar 2015 14:34:55 GMT
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Also, you might find it helpful to ask at our users mailing list -- maybe there are others who saw that problems. Other ways to help are listed at http://openvz.org/Support

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Subject: Re: Debian 6 container not starting after vzctl/kernel upgrade
Posted by kir on Tue, 10 Mar 2015 17:52:22 GMT
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A colleague of mine reminded me of one case similar to yours:

If container init is upstart, sometimes it stucks on trying to
write to non-existent /dev/console. The workaround is to
turn off console_output in /etc/init.d/*.conf files.

Maybe this will help.

Subject: Re: Debian 6 container not starting after vzctl/kernel upgrade
Posted by balrog77 on Tue, 10 Mar 2015 20:14:00 GMT
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You're right, this problems have nothing to do with vzctl/kernel upgrade, I apologize.
I've found a backup of this container from September'2013 and it works fine on recent kernel and vzctl.

According to the logs, these packages were installed inside the container (i had no idea something was installed there, i was told that it was frozen in a working state back in 2013) after september'13 when it was working fine:
apt-get install locales

Upgrade: locales:i386 (2.11.2-10, 2.11.3-4)
apt-get install tzdata
Upgrade: tzdata:i386 (2011d-0squeeze1, 2014e-0squeeze1)
Commandline: apt-get install openssl
Upgrade: openssl:i386 (0.9.8o-4squeeze1, 0.9.8o-4squeeze14)
Commandline: apt-get install byacc
Install: byacc:i386 (20100610-1)

Perhaps you could point to a suspicious package basing on your experience?

I'll compare files in broken and working container, since differences should be isolated to /var/www, /var/lib/mysql and /var/log folders.

Subject: Re: Debian 6 container not starting after vzctl/kernel upgrade
Posted by balrog77 on Tue, 10 Mar 2015 20:23:19 GMT
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Got it.

We've manually upgraded bash in this container this fall due to shellshock vulnerability.
The original version was
GNU bash, version 4.1.5(1)-release (i486-pc-linux-gnu)
while the new one is
GNU bash, version 4.1.17(1)-release (i686-pc-linux-gnu)

I'm not sure if it is a problem with new bash or some debian scripts, but if i replace a patched bash binary with an original one container starts normally.

Sorry for inconvenience and thank you for poiniting me to the right direction!
