Subject: Cannot allocate memory
Posted by flashweb on Sat, 07 May 2011 19:27:50 GMT
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I have created a new centos-5-x86_64-minimal VPS.

When i try enter, i get error

```
[root@server12 ~]# vzctl enter 233
entered into CT 233
-bash: /etc/profile: Cannot allocate memory
-bash: /root/.bash_profile: Cannot allocate memory
-bash-3.1#
-bash-3.1# free -m
-bash: start_pipeline: pgrp pipe: Cannot allocate memory
-bash: free: command not found
-bash-3.1#
```

I have another Ubuntu VPS on this server, that work properly. I stop Ubuntu VPS and start this new CentOS VPS as both use same IP. Only CentOS VPS give this Memory error.

VPS configuration for CentOS VPS is

```
[root@server12 ~]# cat /etc/vz/conf/233.conf
#  Copyright (C) 2000-2009, Parallels, Inc. All rights reserved.
#
#  This program is free software; you can redistribute it and/or modify
#  it under the terms of the GNU General Public License as published by
#  the Free Software Foundation; either version 2 of the License, or
#  (at your option) any later version.
#
#  This program is distributed in the hope that it will be useful,
#  but WITHOUT ANY WARRANTY; without even the implied warranty of
#  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
#  GNU General Public License for more details.
#
#  You should have received a copy of the GNU General Public License
#  along with this program; if not, write to the Free Software
#  Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA  02111-1307  USA
#

ONBOOT="no"

# UBC parameters (in form of barrier:limit)
```

```
KMEMSIZE="60000000:60000000"
LOCKEDPAGES="256:256"
PRIVVMPAGES="900000:900000"
SHMPAGES="21504:21504"
NUMPROC="1000:1000"
PHYSPAGES="0:9223372036854775807"
VMGUARPAGES="33792:9223372036854775807"
OOMGUARPAGES="26112:9223372036854775807"
NUMTCPSOCK="500:500"
NUMFLOCK="188:206"
NUMPTY="16:16"
NUMSIGINFO="256:256"
TCPSNDBUF="20000000:35000000"
TCPRCVBUF="20000000:35000000"
OTHERSOCKBUF="1126080:2097152"
DGRAMRCVBUF="262144:262144"
NUMOTHERSOCK="360:360"
DCACHESIZE="3409920:3624960"
NUMFILE="9312:9312"
AVNUMPROC="180:180"
NUMIPTENT="128:128"

# Disk quota parameters (in form of softlimit:hardlimit)
DISKSPACE="104857600:115343360"
DISKINODES="25000000:30000000"
QUOTATIME="0"

# CPU fair sheduler parameter
CPUUNITS="1000"

VE_ROOT="/vz/root/$VEID"
VE_PRIVATE="/vz/private/$VEID"
OSTEMPLATE="centos-5-x86_64-minimal"
ORIGIN_SAMPLE="basic"
IP_ADDRESS="174.36.130.247"
HOSTNAME="alex.localhost"
NAMESERVER="8.8.8.8"
[root@server12 ~]#
```

free -m on node (server that hosts vps)

```
[root@server12 ~]# free -m
             total       used       free     shared    buffers     cached
Mem:          7972       7850        121          0        128       6348
-/+ buffers/cache:       1373       6598
```

Swap: 1027 0 1027
[root@server12 ~]#

OS/kernal

[root@server12 ~]# cat /etc/*release
Red Hat Enterprise Linux Server release 5.6 (Tikanga)
[root@server12 ~]# uname -a
Linux server12.hosthat.com 2.6.18-238.5.1.el5.028stab085.5 #1 SMP Thu Apr 14 15:42:34 MSD 2011 x86_64 x86_64 x86_64 GNU/Linux
[root@server12 ~]#

This is a bug or CentOS (centos-5-x86_64-minimal) need memory run than Ubuntu VPS (ubuntu-10.04-x86_64) ?

Anyone know how to fix this ?

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Subject: Re: Cannot allocate memory
Posted by flashweb on Sat, 07 May 2011 19:38:31 GMT
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/proc/user_beancounters also not showing

[root@server12 ~]# vzctl exec 233 cat /proc/user_beancounters
cat: /proc/user_beancounters: Cannot allocate memory
[root@server12 ~]#

---

Subject: Re: Cannot allocate memory
Posted by Kristian0911 on Sat, 07 May 2011 23:01:42 GMT
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Hi,

Reboot your VPS once and try to enter into the VPS.

Thanks.

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Subject: Re: Cannot allocate memory
Posted by flashweb on Sun, 08 May 2011 07:30:47 GMT
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I tried that, still not working.

I created a CentOS 32 bit and Fedora 14 32 bit, both worked fine with out any memory error. On CentOS 32 bit VPS, i am able to install XFCE, Opera and VNC server, so i don't think it is a memory issue.

Subject: Re: Cannot allocate memory
Posted by curx on Sun, 08 May 2011 10:44:32 GMT
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@flashweb:

plz post the used beancounters of the "broken" ct from the ct0:

% cat /proc/bc/233/resources

bye,
Thorsten

Subject: Re: Cannot allocate memory
Posted by flashweb on Sun, 08 May 2011 14:49:11 GMT
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Here is the result for 'cat /proc/bc/233/resources'

```
[root@server12 ~]# cat /proc/bc/233/resources
       kmemsize              3708532           4169627          60000000          60000000
      0
       lockedpages                 0                 0               256               256                 0
       privvmpages               380              1319            900000            900000
0
       shmpages                    1                 1             21504             21504                 0
       numproc                     2                 7              1000              1000                 0
       physspages                269               973                 0  9223372036854775807
   0
       vmguarpages                 0                 0             33792  9223372036854775807
    0
       oomguarpages              269               973             26112  9223372036854775807
        0
       numtcpsock                  0                 0               500               500                 0
       numflock                    0                 1               188               206                 0
```

```
        numpty                0              1             16             16             0
        numsiginfo            0              2            256            256             0
        tcpsndbuf             0              0       20000000       35000000             0
        tcprcvbuf             0              0       20000000       35000000             0
        othersockbuf       4656           5960        1126080        2097152
0
        dgramrcvbuf           0              0         262144         262144             0
        numothersock          2              4            360            360             0
        dcachesize      3408570        3413265        3409920        3624960
    38
        numfile              34            111           9312           9312             0
        numiptent            20             20            128            128             0
        swappages             0              0  9223372036854775807
9223372036854775807             0
[root@server12 ~]#
```

vzcalc for the vps if that helps

```
[root@server12 sbin]# vzcalc -v 233
Resource     Current(%)  Promised(%)  Max(%)
Low Mem          0.11        3.96       3.96
Total RAM        0.06         n/a        n/a
Mem + Swap       0.05        2.54        n/a
Alloc. Mem       0.06        2.87      40.47
Num. Proc        0.00         n/a       0.72
--------------------------------------------
Memory           0.11        3.96      40.47
[root@server12 sbin]#

[root@server12 sbin]# vzcpucheck
Current CPU utilization: 3000
Power of the node: 478753
[root@server12 sbin]#
```