
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.that.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 ?

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.

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
physpages          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]#

```