
Subject: Cannot allocate memory

Posted by [leoman](#) on Thu, 23 Aug 2007 08:50:48 GMT

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Hi all,

I installing a new openvz on debian etch via this document [1].

I create a new virtual machine this [1] configurations.

Ok, my vps running normally because i'm try to installing VHCS CP. I have got any error when installation time but i can see not running bind dns server. I try to starting manually (/etc/init.d/bind9 start) but i get

```
Starting domain name service...: bind/etc/init.d/bind9: line 24: /bin/mkdir: Cannot allocate memory
/etc/init.d/bind9: line 25: /bin/chmod: Cannot allocate memory
/etc/init.d/bind9: line 26: /dev/null: Too many open files in system
/etc/init.d/bind9: fork: Cannot allocate memory
```

errors. /bin/mkdir is running normally. (mkdir /root/test, ok)

Same problem for proftpd,

```
/etc/init.d/proftpd: line 13: /bin/grep: Cannot allocate memory
/etc/init.d/proftpd: fork: Cannot allocate memory
Starting ftp server: proftpd/etc/init.d/proftpd: line 94: /sbin/start-stop-daemon: Cannot allocate
memory
failed!
```

Why i get this erros.

Thanks all.

```
uname -a : Linux vps01 2.6.18-openvz-12-1etch1-686 #1 SMP Sat May 5 00:26:59 CEST 2007
i686 GNU/Linux
```

Links :

[1] http://wiki.openvz.org/Installation_on_Debian

Configs:

[1] /etc/vz/conf/1.conf

```
ONBOOT="yes"
```

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

```
# Primary parameters
```

```
AVNUMPROC="40:40"
NUMPROC="65:65"
NUMTCPSOCK="80:80"
NUMOTHERSOCK="80:80"
VMGUARPAGES="131072:153600"
# Secondary parameters
KMEMSIZE="2752512:2936012"
TCPSNDBUF="319488:524288"
TCPRCVBUF="319488:524288"
OTHERSOCKBUF="132096:336896"
DGRAMRCVBUF="132096:132096"
OOMGUARPAGES="6144:2147483647"
# Auxiliary parameters
LOCKEDPAGES="32:32"
SHMPAGES="8192:8192"
PRIVVMPAGES="49152:53575"
NUMFILE="2048:2048"
NUMFLOCK="100:110"
NUMPTY="16:16"
NUMSIGINFO="256:256"
DCACHESIZE="1048576:1097728"
DCACHESIZE="1048576:1097728"

PHYSPAGES="0:2147483647"
NUMIPTENT="128:128"

# Disk quota parameters (in form of softlimit:hardlimit)
DISKSPACE="10485760:10485760"
DISKINODES="200000:220000"
QUOTATIME="0"

# CPU fair sheduler parameter
CPUUNITS="1000"
VE_ROOT="/var/lib/vz/root/$VEID"
VE_PRIVATE="/var/lib/vz/private/$VEID"
OSTEMPLATE="debian-4.0-i386-minimal"
ORIGIN_SAMPLE="vps.basic"
IP_ADDRESS="x.x.x.x"
CPULIMIT="100"
HOSTNAME="mirror.test.net"
NAMESERVER="4.2.2.1"
```

Subject: Re: Cannot allocate memory
Posted by [Valmont](#) on Thu, 23 Aug 2007 12:57:55 GMT
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Just check failcnt in /proc/user_beancounters

Subject: Re: Cannot allocate memory
Posted by [locutius](#) on Thu, 23 Aug 2007 20:08:08 GMT
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the basic conf is an extremely conservative VPS with 24MB RAM and everything tuned down

use the vzsplrit utility to output an 8 way split of your hardware. compare the output of vzsplrit with the conf of your VPS and you will see the problem. experiment with vzsplrit until you find what you need

that was the solution and as Valmont says the way to check what is happening inside the VPS:

cat /proc/user_beancounters

Subject: Re: Cannot allocate memory
Posted by [leoman](#) on Mon, 27 Aug 2007 15:56:49 GMT
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#vzsplrit -n 2 out;

Enter the number of VEs: 2

Configuration file generated by vzsplrit for 2 VEs

on HN with total amount of physical mem 2017 Mb

low memory 874 Mb, swap size 3388 Mb, Max treads 8000

Resource commit level 0:

Free resource distribution. Any parameters may be increased

Primary parameters

NUMPROC="4000:4000"

AVNUMPROC="1119:1119"

NUMTCPSOCK="4000:4000"

NUMOTHERSOCK="4000:4000"

VMGUARPAGES="309906:2147483647"

Secondary parameters

KMEMSIZE="91691008:100860108"

TCPSNDBUF="14179669:30563669"

TCPRCVBUF="14179669:30563669"

OTHERSOCKBUF="7089834:23473834"

DGRAMRCVBUF="7089834:7089834"

OOMGUARPAGES="309906:2147483647"
PRIVVMPAGES="309906:340896"

Auxiliary parameters

LOCKEDPAGES="4477:4477"
SHMPAGES="30990:30990"
PHYSPAGES="0:2147483647"
NUMFILE="35808:35808"
NUMFLOCK="1000:1100"
NUMPTY="400:400"
NUMSIGINFO="1024:1024"
DCACHESIZE="20024667:20625408"
NUMIPTENT="200:200"
DISKSPACE="3227115:3549827"
DISKINODES="1921010:2113112"
CPUUNITS="99783"
