
Subject: Problem dcachesize

Posted by [afrare](#) on Fri, 04 Apr 2008 11:02:54 GMT

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Dear Friends,

I incremented parameter dcachesize, but I continue receive failcnt. And when execute services and other commande I have received message "Cannot allocate memory".

I use centos 4.6 but, the container is centos 5.

Below, I show conf file.

ONBOOT="no"

UBC parameters (in form of barrier:limit)

Primary parameters

AVNUMPROC="40:40"

NUMPROC="200:200"

NUMTCPSOCK="280:280"

NUMOTHERSOCK="280:280"

VMGUARPAGES="65536:2147483647"

Secondary parameters

KMEMSIZE="22020096:23488096"

TCPSNDBUF="3194880:5242880"

TCPRCVBUF="3194880:5242880"

OTHERSOCKBUF="1320960:3368960"

DGRAMRCVBUF="132096:132096"

OOMGUARPAGES="6144:2147483647"

Auxiliary parameters

LOCKEDPAGES="32:32"

SHMPAGES="8192:8192"

PRIVVMPAGES="264144:524288"

NUMFILE="4096:4096"

NUMFLOCK="100:110"

NUMPTY="16:16"

NUMSIGINFO="256:256"

DCACHESIZE="1048576:1097728"

PHYSPAGES="0:2147483647"

NUMIPTENT="128:128"

Disk quota parameters (in form of softlimit:hardlimit)

DISKSPACE="4194304:4613736"

DISKINODES="800000:880000"

QUOTATIME="0"

DISK QUOTA=yes

CPU fair sheduler parameter

```
CPUUNITS="1000"
OFFLINE_MANAGEMENT="yes"
IP_ADDRESS="192.168.100.18"
VE_ROOT="/vz/root/$VEID"
VE_PRIVATE="/vz/private/$VEID"
OSTEMPLATE="centos-5-i386-default"
HOSTNAME="xx.xxx.xxx"
NAMESERVER="123.123.123.123"
```

```
FEATURES="sysfs:on "
```

```
=====
```

Thanks for help.

Adriano

Subject: Re: Problem dcachesize
Posted by [maratrus](#) on Fri, 04 Apr 2008 11:20:08 GMT
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Hi,

Could you please also show us
"cat /proc/user_beancounters" output and also "df -h" and "df -i" output from inside your VE.
And please exact command you used and exact error you received if it is possible.

Subject: Re: Problem dcachesize
Posted by [afrare](#) on Fri, 04 Apr 2008 11:35:40 GMT
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Hi,

Below, I show output commands

```
[root@srv002 afrare]# vzctl exec 108 df -h
Filesystem      Size  Used Avail Use% Mounted on
```

```
/dev/simfs      4.0G 1.6G 1.2G 58% /
tmpfs           314M 8.0K 314M  1% /dev
[root@srv002 afrare]# vzctl exec 108 df -i
Filesystem      Inodes  IUsed  IFree IUse% Mounted on
/dev/simfs      800000  72393 727607 10% /
tmpfs           80177   899  79278  2% /dev
```

Please, see log.

```
=====
[root@srv002 afrare]# vzctl exec 108 tail -f /var/log/secure
Apr  4 08:18:01 srv008 crond[26090]: PAM unable to dlopen(/lib/security/pam_unix.so)
Apr  4 08:18:01 srv008 crond[26090]: PAM [error: libcrack.so.2: cannot open shared object file:
Cannot allocate memory]
Apr  4 08:18:01 srv008 crond[26090]: PAM adding faulty module: /lib/security/pam_unix.so
Apr  4 08:18:01 srv008 crond[26090]: PAM unable to dlopen(/lib/security/pam_access.so)
Apr  4 08:18:01 srv008 crond[26090]: PAM [error: libnsl.so.1: cannot open shared object file:
Cannot allocate memory]
Apr  4 08:18:01 srv008 crond[26090]: PAM adding faulty module: /lib/security/pam_access.so
Apr  4 08:22:18 srv008 sshd[18394]: Received signal 15; terminating.
Apr  4 08:22:18 srv008 sshd[20330]: pam_unix(sshd:session): session closed for user afrare
Apr  4 08:22:36 srv008 sshd[28118]: Server listening on 0.0.0.0 port 22.
Apr  4 08:30:01 srv008 crond[29861]: PAM audit_open() failed: Cannot allocate memory
=====
```

Thanks,

Subject: Re: Problem dcachesize
Posted by [maratrus](#) on Fri, 04 Apr 2008 11:44:16 GMT
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And also "cat /proc/user_beancounters". I wasn't be able to find it.

Subject: Re: Problem dcachesize
Posted by [afrare](#) on Fri, 04 Apr 2008 11:48:15 GMT
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Please, see below.

```
108: kmemsize      5301822  5807381  22020096  23488096      0
```

lockedpages	0	0	32	32	0	
privvmpages	60235	68152	264144	524288		0
shmpages	59	715	8192	8192	0	
dummy	0	0	0	0	0	
numproc	53	68	200	200	0	
physpages	19571	22052	0	2147483647		0
vmguarpages	0	0	65536	2147483647		0
oomguarpages	19571	22052	6144	2147483647		0
numtcpsock	14	16	280	280	0	
numflock	6	9	100	110	0	
numpty	0	0	16	16	0	
numsiginfo	0	11	256	256	0	
tcpsndbuf	125216	0	3194880	5242880		0
tcprcvbuf	229376	0	3194880	5242880		0
othersockbuf	213768	230340	1320960	3368960		0
dgramrcvbuf	0	8380	132096	132096		0
numothersock	133	144	280	280	0	
dcachesize	1047132	1052088	1050000	1100000		634
numfile	1401	1672	4096	4096	0	
dummy	0	0	0	0	0	
dummy	0	0	0	0	0	
dummy	0	0	0	0	0	
numiptent	6	6	128	128	0	

Subject: Re: Problem dcachesize
 Posted by [maratrus](#) on Fri, 04 Apr 2008 12:07:32 GMT
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Hi,

Quote:I incremented parameter dcachesize, but I continue receive failcnt.
 If you continue receive failcnt increase dcachesize parameter until failcnt stops increasing.
 Try to set a huge value of dcachesize then look at its consumption and then decrease it to appropriate value.
 If it is not help we'll continue our investigations.

Subject: Re: Problem dcachesize
 Posted by [afrare](#) on Fri, 04 Apr 2008 12:24:37 GMT
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Dear Friend,

See -> cat /proc/user_beancounters

dcachesize 1049256 1054920 1050000 2147483647 660

I don't understand why it occurs.

Thanks again

Adriano

Subject: Re: Problem dcachesize
Posted by [maratrus](#) on Fri, 04 Apr 2008 12:28:51 GMT
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Quote:dcachesize 1049256 1054920 1050000 2147483647 660
Compare these values
1054920 and 1050000.

You should increase barrier value too! 1050000 is not enough.

Subject: Re: Problem dcachesize [SOLVED]
Posted by [afrare](#) on Fri, 04 Apr 2008 15:40:40 GMT
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Hi,

I changed parameter to DCACHESIZE="2109840:2147483647" and solved problem.

Thanks

Adriano
