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Subject: fork: Cannot allocate Memory

Posted by [P\\_H\\_I\\_L](#) on Tue, 24 Nov 2009 08:23:06 GMT

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Hey Sir, When I am starting my dimdim server this message is shown me: fork: Cannot allocate Memory

cat /proc/user\_beancounters:

| uid  | resource     | held    | maxheld | barrier  | limit      | failcnt |     |
|------|--------------|---------|---------|----------|------------|---------|-----|
| 202: | kmemsize     | 3700437 | 5840579 | 11055923 | 11377049   |         | 0   |
|      | lockedpages  | 0       | 0       | 256      | 256        | 0       |     |
|      | privvmpages  | 381463  | 384383  | 384000   | 393212     |         | 821 |
|      | shmpages     | 45      | 1341    | 21504    | 21504      | 0       |     |
|      | dummy        | 0       | 0       | 0        | 0          | 0       |     |
|      | numproc      | 78      | 140     | 240      | 240        | 0       |     |
|      | physpages    | 16907   | 19458   | 0        | 2147483647 |         | 0   |
|      | vmguarpages  | 0       | 0       | 262144   | 2147483647 |         | 0   |
|      | oomguarpages | 16907   | 19458   | 26112    | 2147483647 |         | 0   |
|      | numtcpsock   | 10      | 21      | 360      | 360        | 0       |     |
|      | numflock     | 8       | 9       | 188      | 206        | 0       |     |
|      | numpty       | 0       | 1       | 16       | 16         | 0       |     |
|      | numsiginfo   | 0       | 33      | 256      | 256        | 0       |     |
|      | tcpsndbuf    | 89440   | 136396  | 1720320  | 2703360    |         | 0   |
|      | tcprcvbuf    | 188980  | 222584  | 1720320  | 2703360    |         | 0   |
|      | othersockbuf | 6708    | 16916   | 1126080  | 2097152    |         | 0   |
|      | dgramrcvbuf  | 0       | 8380    | 262144   | 262144     |         | 0   |
|      | numothersock | 19      | 28      | 360      | 360        | 0       |     |
|      | dcachesize   | 0       | 0       | 3409920  | 3624960    |         | 0   |
|      | numfile      | 1475    | 2655    | 9312     | 9312       | 0       |     |
|      | dummy        | 0       | 0       | 0        | 0          | 0       |     |
|      | dummy        | 0       | 0       | 0        | 0          | 0       |     |
|      | dummy        | 0       | 0       | 0        | 0          | 0       |     |
|      | numiptent    | 10      | 10      | 128      | 128        | 0       |     |
| 101: | kmemsize     | 3338174 | 3816804 | 11055923 | 11377049   |         | 0   |
|      | lockedpages  | 0       | 0       | 256      | 256        | 0       |     |
|      | privvmpages  | 293342  | 301963  | 965536   | 969632     |         | 0   |
|      | shmpages     | 0       | 1341    | 21504    | 21504      | 0       |     |
|      | dummy        | 0       | 0       | 0        | 0          | 0       |     |
|      | numproc      | 73      | 80      | 240      | 240        | 0       |     |
|      | physpages    | 135597  | 145294  | 0        | 2147483647 |         | 0   |
|      | vmguarpages  | 0       | 0       | 99933792 | 2147483647 |         | 0   |
|      | oomguarpages | 135597  | 145294  | 26112    | 2147483647 |         | 0   |
|      | numtcpsock   | 19      | 26      | 360      | 360        | 0       |     |
|      | numflock     | 4       | 5       | 188      | 206        | 0       |     |
|      | numpty       | 0       | 1       | 16       | 16         | 0       |     |
|      | numsiginfo   | 0       | 12      | 256      | 256        | 0       |     |
|      | tcpsndbuf    | 143104  | 172172  | 1720320  | 2703360    |         | 0   |
|      | tcprcvbuf    | 131072  | 221748  | 1720320  | 2703360    |         | 0   |

|              |         |         |            |            |   |
|--------------|---------|---------|------------|------------|---|
| othersockbuf | 6708    | 16916   | 1126080    | 2097152    | 0 |
| dgramrcvbuf  | 0       | 8380    | 262144     | 262144     | 0 |
| numothersock | 11      | 18      | 360        | 360        | 0 |
| dcachesize   | 0       | 0       | 3409920    | 3624960    | 0 |
| numfile      | 1346    | 1559    | 9312       | 9312       | 0 |
| dummy        | 0       | 0       | 0          | 0          | 0 |
| dummy        | 0       | 0       | 0          | 0          | 0 |
| dummy        | 0       | 0       | 0          | 0          | 0 |
| numiptent    | 10      | 10      | 128        | 128        | 0 |
| 0: kmemsize  | 6677257 | 7908659 | 2147483647 | 2147483647 | 0 |
| lockedpages  | 0       | 0       | 2147483647 | 2147483647 | 0 |
| privvmpages  | 73438   | 92242   | 2147483647 | 2147483647 | 0 |
| shmpages     | 1358    | 2974    | 2147483647 | 2147483647 | 0 |
| dummy        | 0       | 0       | 2147483647 | 2147483647 | 0 |
| numproc      | 124     | 141     | 2147483647 | 2147483647 | 0 |
| physpages    | 29131   | 45853   | 2147483647 | 2147483647 | 0 |
| vmguarpages  | 0       | 0       | 2147483647 | 2147483647 | 0 |
| oomguarpages | 29164   | 45853   | 2147483647 | 2147483647 | 0 |
| numtcpsock   | 10      | 19      | 2147483647 | 2147483647 | 0 |
| numflock     | 7       | 11      | 2147483647 | 2147483647 | 0 |
| numpty       | 1       | 2       | 2147483647 | 2147483647 | 0 |
| numsignifo   | 1       | 12      | 2147483647 | 2147483647 | 0 |
| tcpsndbuf    | 98332   | 335720  | 2147483647 | 2147483647 | 0 |
| tcprcvbuf    | 163840  | 839960  | 2147483647 | 2147483647 | 0 |
| othersockbuf | 111800  | 150764  | 2147483647 | 2147483647 | 0 |
| dgramrcvbuf  | 0       | 16760   | 2147483647 | 2147483647 | 0 |
| numothersock | 92      | 102     | 2147483647 | 2147483647 | 0 |
| dcachesize   | 0       | 0       | 2147483647 | 2147483647 | 0 |
| numfile      | 2693    | 3029    | 2147483647 | 2147483647 | 0 |
| dummy        | 0       | 0       | 2147483647 | 2147483647 | 0 |
| dummy        | 0       | 0       | 2147483647 | 2147483647 | 0 |
| dummy        | 0       | 0       | 2147483647 | 2147483647 | 0 |
| numiptent    | 10      | 10      | 2147483647 | 2147483647 | 0 |

Can anybody help me and say the problem?

I have 2 Virtual machines every need min. 1 u. max. 2 gb RAM

How can i configurate this? And I have a Pentium 2,4 Server. What CPUUNIT I can configurate?

I dont know how to calculate in linux. iam a newbie )

Greetz,  
Philipp

Subject: Re: fork: Cannot allocate Memory  
Posted by [khorenko](#) on Tue, 24 Nov 2009 08:37:15 GMT  
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Hi Philipp,

```
cat /proc/user_beancounters:
uid resource      held  maxheld  barrier  limit  failcnt
  privvmpages    381463  384383   384000   393212    821
```

Look, you simply got a "privvmpages" failcounters, which means that your Container allocated too much memory and hit its limit (allocated != used).

Well, i think you have to understand what application inside a Container requires so many RAM (381463\*4096=1562472448 ~ 1.5 Gb is quite a lot) and decide if this is normal or not for that application.

And if you decide that this is normal, should just have to increase the privvmpages limit.

Hope that helps.

And talking about CPUUNITS... well, just leave it by default at least you get a stable and working system.

Good luck!

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Konstantin

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Subject: Re: fork: Cannot allocate Memory  
Posted by [P\\_H\\_I\\_L](#) on Tue, 24 Nov 2009 15:17:22 GMT  
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My english is not so good.  
I dont understand all sentences

I want to install an conference server. dimdim.

I need > 512mb RAM for dimdim in this openVZ.

Can you help me? What parameters do I have to set. I always get the alcote memory error.

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Subject: Re: fork: Cannot allocate Memory  
Posted by [khorenko](#) on Tue, 24 Nov 2009 15:49:44 GMT

```
vzctl set 202 --privmmpages 768000:786424 --save
```

This will provide your Container 3 Gb of RAM for allocation.

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Konstantin

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Subject: Re: fork: Cannot allocate Memory  
Posted by [P\\_H\\_I\\_L](#) on Tue, 24 Nov 2009 19:36:10 GMT  
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if i do this i get: cannot allocate memory!  
It's the first info, if i start the machine. whats wrong?

this is the config! I have a PC with 2GB! For the vz i need ca >700MB RAM, to start the conference server:

Maybe anybody can help me:

```
# UBC parameters (in form of barrier:limit)
# Primary parameters
#AVNUMPROC="200:200"
NUMPROC="400:1200"
NUMTCPSOCK="500:2048"
NUMOTHERSOCK="500:2048"
VMGUARPAGES="2047483647:2147483647"
# Secondary parameters
KMEMSIZE="16384000:18022400"
TCPSNDBUF="5365760:10485760"
TCPRCVBUF="5365760:10485760"
OTHERSOCKBUF="1503232:4063232"
DGRAMRCVBUF="262144:262144"
OOMGUARPAGES="2047483647:2147483647"
# Auxiliary parameters
LOCKEDPAGES="4096:4096"
SHMPAGES="131072:131072"
PRIVVMPAGES="2047483647:2147483647"
NUMFILE="8192:8192"
NUMFLOCK="200:220"
NUMPTY="64:64"
NUMSIGINFO="512:512"
DCACHESIZE="4194304:4194304"
```

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

```
# Disk quota parameters (in form of softlimit:hardlimit)  
DISKSPACE="991048576:991153024"  
DISKINODES="1200000:1220000"  
QUOTATIME="0"
```

```
# CPU fair sheduler parameter  
CPUUNITS="1000"
```

```
VE_ROOT="/vz/root/$VEID"  
VE_PRIVATE="/vz/private/$VEID"  
OSTEMPLATE="centos-5.2-i386-default"  
ORIGIN_SAMPLE="vps.basic"  
HOSTNAME="vm202.server.cams4friends.com"  
IP_ADDRESS="64.120.180.5"
```

This is my \*.conf! But I always get an privvmpage failcnt.

While starting the server i get an runtime exception: for: cannot alocate memory.

if I set too much in the conig

a) iam not able to start the ve or

b) The First message while starting the server 'cannot alocate memory' It's the first statement in the shell, that i get..

Suggestions?

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Subject: Re: fork: Cannot alocate Memory  
Posted by [khorenko](#) on Wed, 25 Nov 2009 07:50:16 GMT  
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Please, post here:

```
# cat /proc/user_beancounters
```

```
# vzctl start 202
```

```
# // any command do get "cannot allocate memory" error
```

```
# cat /proc/user_beancounters
```

Thanks.

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Konstantin

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First i stopped the vz:

|               |     |          |            |            |     |
|---------------|-----|----------|------------|------------|-----|
| 202: kmemsize | 589 | 12646078 | 16384000   | 18022400   | 0   |
| lockedpages   | 0   | 0        | 4096       | 4096       | 0   |
| privvmpages   | 0   | 753230   | 2047483647 | 2147483647 | 528 |
| shmpages      | 0   | 2301     | 131072     | 131072     | 0   |
| dummy         | 0   | 0        | 0          | 0          | 0   |
| numproc       | 0   | 400      | 400        | 1200       | 254 |
| physpages     | 0   | 22316    | 0          | 2147483647 | 0   |
| vmguarpages   | 0   | 0        | 2047483647 | 2147483647 | 0   |
| oomguarpages  | 0   | 22316    | 2047483647 | 2147483647 | 0   |
| numtcpsock    | 0   | 14       | 500        | 2048       | 0   |
| numflock      | 0   | 9        | 200        | 220        | 0   |
| numpty        | 0   | 1        | 64         | 64         | 0   |
| numsiginfo    | 0   | 21       | 512        | 512        | 0   |
| tcpsndbuf     | 0   | 125216   | 5365760    | 10485760   | 0   |
| tcprcvbuf     | 0   | 188980   | 5365760    | 10485760   | 0   |
| othersockbuf  | 0   | 29988    | 1503232    | 4063232    | 0   |
| dgramrcvbuf   | 0   | 8380     | 262144     | 262144     | 0   |
| numothersock  | 0   | 38       | 500        | 2048       | 0   |
| dcachesize    | 0   | 0        | 4194304    | 4194304    | 0   |
| numfile       | 0   | 6796     | 8192       | 8192       | 0   |
| dummy         | 0   | 0        | 0          | 0          | 0   |
| dummy         | 0   | 0        | 0          | 0          | 0   |
| dummy         | 0   | 0        | 0          | 0          | 0   |
| numiptent     | 0   | 10       | 128        | 128        | 0   |

Then i started it:

|               |          |          |            |            |     |
|---------------|----------|----------|------------|------------|-----|
| 202: kmemsize | 12502522 | 12779424 | 16384000   | 18022400   | 0   |
| lockedpages   | 0        | 0        | 4096       | 4096       | 0   |
| privvmpages   | 597485   | 597743   | 2047483647 | 2147483647 | 0   |
| shmpages      | 1325     | 1341     | 131072     | 131072     | 0   |
| dummy         | 0        | 0        | 0          | 0          | 0   |
| numproc       | 400      | 400      | 400        | 1200       | 224 |
| physpages     | 19344    | 20705    | 0          | 2147483647 | 0   |
| vmguarpages   | 0        | 0        | 2047483647 | 2147483647 | 0   |
| oomguarpages  | 19344    | 20705    | 2047483647 | 2147483647 | 0   |
| numtcpsock    | 12       | 12       | 500        | 2048       | 0   |
| numflock      | 8        | 9        | 200        | 220        | 0   |
| numpty        | 1        | 1        | 64         | 64         | 0   |
| numsiginfo    | 0        | 2        | 512        | 512        | 0   |
| tcpsndbuf     | 169936   | 169936   | 5365760    | 10485760   | 0   |
| tcprcvbuf     | 221748   | 188980   | 5365760    | 10485760   | 0   |
| othersockbuf  | 11180    | 16916    | 1503232    | 4063232    | 0   |
| dgramrcvbuf   | 0        | 8380     | 262144     | 262144     | 0   |

|              |      |      |         |         |   |
|--------------|------|------|---------|---------|---|
| numothersock | 24   | 28   | 500     | 2048    | 0 |
| dcachesize   | 0    | 0    | 4194304 | 4194304 | 0 |
| numfile      | 6692 | 6709 | 8192    | 8192    | 0 |
| dummy        | 0    | 0    | 0       | 0       | 0 |
| dummy        | 0    | 0    | 0       | 0       | 0 |
| dummy        | 0    | 0    | 0       | 0       | 0 |
| numiptent    | 10   | 10   | 128     | 128     | 0 |

I became so message cannot allocate memory

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Subject: Re: fork: Cannot allocate Memory  
 Posted by [khorenko](#) on Wed, 25 Nov 2009 08:20:36 GMT  
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You've got "numproc" failcounters.  
 Please, increase "numproc" limits.

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Subject: Re: fork: Cannot allocate Memory  
 Posted by [P\\_H\\_I\\_L](#) on Wed, 25 Nov 2009 12:50:09 GMT  
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it works thx. Thank you very much, Sir

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