
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
numsiginfo	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!

--
Konstantin

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.

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

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

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

--
Konstantin

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?

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.

--

Konstantin

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

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.

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
