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Subject: Fatal resource shortage: privvmpages  
Posted by [marsvin](#) on Mon, 11 Dec 2006 18:39:56 GMT  
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Hi all,

I'm a bit of a newbie getting started for the first time installing OpenVZ in a test environment.

First off my machine is a dual proc dual core Operton (AMD64) platform with 4GB of ram. My operating system is Debian Sarge 3.1.

I haven't installed anything other than the OS, ssh and OpenVZ so far so this is as clean an install as I can get. OpenVZ and its kernel were installed using apt. This is the one I'm using now:

```
me@server:~$ uname -a
Linux server 2.6.9-023stab032.1-ovz-amd64-smp #1 SMP Fri Oct 27 13:41:52 CEST 2006
x86_64 GNU/Linux
```

To install the virtual machine I followed this tutorial: [http://wiki.openvz.org/Installation\\_on\\_Debian](http://wiki.openvz.org/Installation_on_Debian) and then downloaded the Debian64 template from here: <http://openvz.org/download/template/cache/>

Oh I used vps.basic.conf as the configuration. I did find a 64 bit smp config here <http://download.openvz.org/kernel/devel/026test015.1/configs/> but after I installed it and tried to start the virtual machine I ended up with 2 pages of errors. (if needed I can try again and post the errors here.)

With the default config installation was a breeze but when I finished and rebooted again, right before the login prompt showed up I got this error message:

```
Dec 11 19:09:51 localhost kernel: Fatal resource shortage: privvmpages, UB 101.
```

Although there is nothing installed on the virtual machine yet (or on the base OS for that matter.)

I'm assuming this won't make my system any more stable so I'd like to find out what's causing this problem and how to fix it but I'm not sure where to start.

I did find several posts about this error on this board but they all seemed to indicate mis-use of memory which shouldn't be a problem in my system (yet.)

Any thoughts would be much appreciated and if you got here thanks for reading this rather long post

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Subject: Re: Fatal resource shortage: privvmpages  
Posted by [rickb](#) on Mon, 11 Dec 2006 19:18:16 GMT  
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First, check what privvmpages is set to currently:

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

under the VEID, you will see a lines like this:

```
889489: kmemsize      1420887  2768219  60252800  121278080      0
        lockedpages   0         0        550       550         0
        privvmpages   8622     18280    500000    750000      0
```

In this case, privvmpages is set to 500000:750000 and has no failcounts. Your probably will have failcounts greater then 0. To raise privvmpages, use this command:

```
vzctl set VEID --privvmpages XXXXX:YYYYY --save
```

This will set VEID privvmpages to XXXXX:YYYYY. You can use mine to at least get your VE going and then tune them later.

If this doesn't help, use these steps so someone can help you with one reply:

- 0) reboot your hardware node if possible and no production services (just to clear beancounters)
- 1) cat /proc/user\_beancounters (save it)
- 2) simulate problem
- 3) cat /proc/user\_beancounters (save it)

Paste the full output of beancounters here!

Rick

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Subject: Re: Fatal resource shortage: privvmpages  
Posted by [marsvin](#) on Mon, 11 Dec 2006 20:14:51 GMT  
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Thanks a lot for replying so quickly

The increased vmpages fixed the problem. The error was popping up at hardware boot btw, before I did anything at all, so there was no "before" counter.

I'm seeing a new error pop up though, numproc is listing a failcnt of 1. I have 5 processes currently running in the VPS with maxheld, barrier and limit at 65.

After toying around a bit (logging in with ssh, vim'ing some files and so on) it doesn't seem to increase.

Here's the list at boot.

By the way, is that limit set for physpages, vmguarpages and oomguarpages sane?

Version: 2.5

uid	resource	held	maxheld	barrier	limit	failcnt
101:	kmemsize	445083	2081471	5242880	5592405	
0						
	lockedpages	0	0	32	32	0
	privvmpages	1146	146808	500000	750000	
0						
	shmpages	0	65	8192	8192	0
	dummy	0	0	0	0	0
	numproc	5	65	65	65	1
	physpages	485	1887	0	9223372036854775807	
0						
	vmguarpages	0	0	6144	9223372036854775807	
0						
	oomguarpages	485	1887	6144	9223372036854775807	
0						
	numtcpsock	1	2	80	80	0
	numflock	1	2	100	110	0
	numpty	0	0	16	16	0
	numsiginfo	0	2	256	256	0
	tcpsndbuf	0	0	319488	524288	0
	tcprcvbuf	0	0	319488	524288	0
	othersockbuf	2344	3664	132096	336896	
0						
	dgramrcvbuf	0	0	132096	132096	0
	numothersock	1	4	120	120	0
	dcachesize	0	0	1048576	1097728	0
	numfile	121	1105	2048	2048	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

And here it is after some action:

Version: 2.5

uid	resource	held	maxheld	barrier	limit	failcnt
101:	kmemsize	433380	2081471	5242880	5592405	
0						
	lockedpages	0	0	32	32	0
	privvmpages	1147	146808	500000	750000	
0						
	shmpages	0	656	8192	8192	0
	dummy	0	0	0	0	0
	numproc	5	65	65	65	1

0	physpages	486	1975	0	9223372036854775807	
0	vmguarpages	0	0	6144	9223372036854775807	
0	oomguarpages	486	1975	6144	9223372036854775807	
0	numtcpsock	1	2	80	80	0
	numflock	1	2	100	110	0
	numpty	0	1	16	16	0
	numsiginfo	0	2	256	256	0
	tcpsndbuf	0	9376	319488	524288	0
	tcprcvbuf	0	4392	319488	524288	0
0	othersockbuf	2344	7920	132096	336896	
	dgramrcvbuf	0	8488	132096	132096	0
	numothersock	1	6	120	120	0
	dcachesize	0	0	1048576	1097728	0
	numfile	119	1105	2048	2048	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

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