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Subject: Memory Allocation

Posted by [zoom](#) on Wed, 24 Dec 2008 16:28:03 GMT

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I have a general question concerning memory allocation. I have a VPS setup to have 256MB guaranteed and 512MB burst, however when I do "free -m" within the container the total memory shown is 512MB? Should it be 256MB?

|                    | total | used | free |
|--------------------|-------|------|------|
| Mem:               | 512   | 132  | 379  |
| -/+ buffers/cache: |       | 132  | 379  |
| Swap:              | 0     | 0    | 0    |

Below are my container settings for memory based on a 64 bit host.

```
PRIVVMPAGES="131072:144384"
```

```
VMGUARPAGES="65536:9223372036854775807"
```

```
OOMGUARPAGES="65536:9223372036854775807"
```

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Subject: Re: Memory Allocation

Posted by [piavlo](#) on Wed, 24 Dec 2008 18:39:30 GMT

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This is since the memory shown is in privvmpages by default  
<http://wiki.openvz.org/Privvmpages#privvmpages>

so  $131072 * 4096 / 1024 / 1024 = 512M$

Have a look at --meminfo in vzctl man page.

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Subject: Re: Memory Allocation

Posted by [techdruid](#) on Wed, 11 Mar 2009 19:32:05 GMT

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I have encountered this same problem.

I tried changing vzctl --meminfo in various ways. However, no matter how I set this, the free command and cat /proc/meminfo always show the full amount of memory from the host/hardware system.

Any advice would greatly appreciated.

/proc/users\_beancounters

| resource     | held    | maxheld | barrier  | limit      |
|--------------|---------|---------|----------|------------|
| kmemsize     | 1055739 | 1341307 | 16384000 | 18022400   |
| privvmpages  | 11036   | 11759   | 262144   | 292912     |
| shmpages     | 31      | 31      | 131072   | 131072     |
| physpages    | 2150    | 2631    | 0        | 2147483647 |
| vmguarpages  | 0       | 0       | 102400   | 102400     |
| oomguarpages | 2150    | 2631    | 102400   | 102400     |

I've tried

```
# vzctl set 1 --meminfo privvmpages:1 --save
```

```
# vzctl set 1 --meminfo pages:292912 --save
```

Tried restarting the container stop/start, but I continue to see the following in the container from #

```
free -m
```

| total | used | free | shared | buffers | cached |
|-------|------|------|--------|---------|--------|
| 1009  | 45   | 964  | 0      | 0       | 0      |

```
+/+ b/c: 45 964
```

```
Swap:
```

```
0 0 0
```

Amended. I should point out that I'm using the values defined on this page here.

[http://wiki.openvz.org/UBC\\_configuration\\_examples\\_table](http://wiki.openvz.org/UBC_configuration_examples_table)

Idea's / Thoughts?

Thanks in advance

Richard

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Subject: Re: Memory Allocation

Posted by [techdruid](#) on Wed, 11 Mar 2009 20:32:05 GMT

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It would appear that my mistake here is that I was setting the meminfo value too high. I was assuming this was bytes and not pages.

Correct command for 256MB RAM is...

```
# vzctl set <veid> --meminfo pages:65536 --save
```

It would seem to me that this page below is incorrect though. It explains that for 248MB of RAM, you should set privvmpages to 262,144 / 292,912 . However, this results in over 1GB of total RAM on the container. Shouldn't this example be closer to 65536?

[http://wiki.openvz.org/UBC\\_configuration\\_examples\\_table](http://wiki.openvz.org/UBC_configuration_examples_table)

Or am I missing something?

Richard

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Subject: Re: Memory Allocation

Posted by [Rene](#) on Mon, 26 Sep 2011 11:44:11 GMT

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Where is --meminfo documented? If I hit vzctl --help it's not listed as an option, nor is it explained in the man page....

```
# vzctl --help
```

```
vzctl version 3.0.29.2
```

```
Copyright (C) 2000-2010, Parallels, Inc.
```

```
This program may be distributed under the terms of the GNU GPL License.
```

```
Usage: vzctl [options] <command> <ctid> [parameters]
```

```
vzctl create <ctid> [--ostemplate <name>] [--config <name>]
```

```
  [--private <path>] [--root <path>] [--ipadd <addr>] | [--hostname <name>]
```

```
vzctl start <ctid> [--force] [--wait]
```

```
vzctl destroy | mount | umount | stop | restart | status <ctid>
```

```
vzctl quotaon | quotaoff | quotainit <ctid>
```

```
vzctl enter <ctid> [--exec <command> [arg ...]]
```

```
vzctl exec | exec2 <ctid> <command> [arg ...]
```

```
vzctl runscript <ctid> <script>
```

```
vzctl chkpnt <ctid> [--dumpfile <name>]
```

```
vzctl restore <ctid> [--dumpfile <name>]
```

```
vzctl set <ctid> [--save] [--force] [--setmode restart|ignore]
```

```
  [--ipadd <addr>] [--ipdel <addr>|all] [--hostname <name>]
```

```
  [--nameserver <addr>] [--searchdomain <name>]
```

```
  [--onboot yes|no] [--bootorder <N>]
```

```
  [--userpasswd <user>:<passwd>]
```

```
  [--cpuunits <N>] [--cpulimit <N>] [--cpus <N>] [--cpumask <cpus>]
```

```
  [--diskspace <soft>[:<hard>]] [--diskinodes <soft>[:<hard>]]
```

```
  [--quotatime <N>] [--quotauidlimit <N>]
```

```
  [--noatime yes|no] [--capability <name>:on|off ...]
```

```
  [--devices b|c:major:minor|all:r|w|rw]
```

```
  [--devnodes device:r|w|rw|none]
```

```
  [--netif_add <ifname[,mac,host_ifname,host_mac,bridge]]>]
```

```
  [--netif_del <ifname>]
```

```
  [--applyconfig <name>] [--applyconfig_map <name>]
```

```
  [--features <name:on|off>] [--name <vename>] [--ioprio <N>]
```

```
  [--pci_add [<domain>:]<bus>:<slot>.<func>] [--pci_del <d:b:s.f>]
```

```
  [--iptables <name>] [--disabled <yes|no>]
```

```
[UBC parameters]
```

UBC parameters (N - items, P - pages, B - bytes):

Two numbers divided by colon means barrier:limit.

In case the limit is not given it is set to the same value as the barrier.

```
--numproc N[:N]    --numtcpsock N[:N]    --numothersock N[:N]
```

```
--vmguarpages P[:P]  --kmemsize B[:B]    --tcpsndbuf B[:B]
```

```
--tcprcvbuf B[:B]  --othersockbuf B[:B]  --dgramrcvbuf B[:B]
```

```
--oomguarpages P[:P] --lockedpages P[:P] --privvmpages P[:P]
--shmpages P[:P] --numfile N[:N] --numflock N[:N]
--numpty N[:N] --numsiginfo N[:N] --dcachesize N[:N]
--numiptent N[:N] --physpages P[:P] --avnumproc N[:N]
--swappages P[:P]
```

It's not like it's not recognized though:

```
# vzctl set 1402 --meminfo
vzctl: option `--meminfo' requires an argument
```