
Subject: Memory usage

Posted by [eugenio pacheco](#) on Thu, 06 Apr 2006 10:31:12 GMT

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Hi,

I'm a big fan of openvz, I think it's wonderful, but as I'm a newbie at it I don't fully know how it works...

Well... I'm running openvz on a Celeron 3,066 1024MB RAM 160GB HD and it's working fine, but, I used `vzsplit -n 10 -f vps.10` and used this config file with `vzctl set VPSID --applyconfig vps.10 --save`

I'm running only 3 VPS and when I run `top` on the host it shows this:

```
Cpu(s): 1.2% us, 0.0% sy, 0.0% ni, 98.8% id, 0.0% wa, 0.0% hi, 0.0% si
Mem: 1025084k total, 1002164k used, 22920k free, 95024k buffers
```

Is it supposed to look like that? To have the memory all used up like that? Does openvz by default use the entire memory and then split into the VPS's? Is that how it works?

Here's what my `vzmemcheck` shows:

```
[root@t248 ~]# vzmemcheck
```

Output values in %

LowMem	LowMem	RAM	MemSwap	MemSwap	Alloc	Alloc	Alloc
util	commit	util	util	commit	util	commit	limit
0.81	28.58	5.57	5.57	28.04	23.29	28.04	124.97

```
[root@t248 ~]# vzmemcheck -A
```

Output values in Mbytes

LowMem	LowMem	RAM	MemSwap	MemSwap	Alloc	Alloc	Alloc
util	commit	util	util	commit	util	commit	limit
2.63	93.45	55.74	55.74	280.68	233.10	280.68	1251.05
326.00	326.00	1001.00	1001.00	1001.00	1001.00	1001.00	1001.00

```
[root@t248 ~]# vzmemcheck -Av
```

Output values in Mbytes

veid	LowMem	LowMem	RAM	MemSwap	MemSwap	Alloc	Alloc	Alloc
	util	commit	util	util	commit	util	commit	limit
101	2.15	24.79	49.62	49.62	87.20	199.25	87.20	358.57
104	0.28	34.33	3.92	3.92	96.74	30.81	96.74	446.24
105	0.21	34.33	2.21	2.21	96.74	3.05	96.74	446.24

```
-----
Summary: 2.63 93.45 55.74 55.74 280.68 233.10 280.68 1251.05
          326.00 326.00 1001.00 1001.00 1001.00 1001.00 1001.00 1001.00
```

```
[root@t248 ~]# vzmemcheck -v
```

Output values in %

veid	LowMem	LowMem	RAM	MemSwap	MemSwap	Alloc	Alloc	Alloc
	util	commit	util	util	commit	util	commit	limit

101	0.66	7.58	4.96	4.96	8.71	19.90	8.71	35.82
104	0.09	10.50	0.39	0.39	9.66	3.08	9.66	44.58
105	0.06	10.50	0.22	0.22	9.66	0.30	9.66	44.58

Summary: 0.81 28.58 5.57 5.57 28.04 23.29 28.04 124.97

I read the User manual and it says that if any of these numbers is over 1 it's a problem with configuration... Here's what my vps.10 config template looks like:

```
# Configuration file generated by vzsplint for 10 VPS
# on HN with total amount of physical mem 1001 Mb
# low memory 817 Mb, swap size 0 Mb, Max treads 8000
# Resource commit level 0:
# Free resource distribution. Any parameters may be increased
# Primary parameters
NUMPROC="800:800"
AVNUMPROC="209:209"
NUMTCPSOCK="800:800"
NUMOTHERSOCK="800:800"
VMGUARPAGES="15977:2147483647"
```

```
# Secondary parameters
KMEMSIZE="17141514:18855665"
TCPSNDBUF="2437038:5713838"
TCPRCVBUF="2437038:5713838"
OTHERSOCKBUF="1218519:4495319"
DGRAMRCVBUF="1218519:1218519"
OOMGUARPAGES="15977:2147483647"
PRIVVMPAGES="95862:105448"
```

```
# Auxiliary parameters
LOCKEDPAGES="836:836"
SHMPAGES="9586:9586"
PHYSPAGES="0:2147483647"
NUMFILE="6688:6688"
NUMFLOCK="668:734"
NUMPTY="80:80"
NUMSIGINFO="1024:1024"
DCACHESIZE="3740085:3852288"
NUMIPTENT="200:200"
DISKSPACE="5242880:6242880"
DISKINODES="593396:622736"
CPUUNITS="13738"
```

Is this all right?

Also, here is what vzcpucheck looks like:

```
[root@t248 vz-scripts]# vzcpucheck  
Current CPU utilization: 42664  
Power of the node: 151267
```

I haven't got any shortage on memory, but I'm afraid that if I run more stuff on the VPS's or if I add more VPS's then I'm gonna get memory shortage... By the way, what's the configuration for RAM memory limitation? Is it oomguarpages or vmguarpages? I read the user manual and I believe it's one of these...

Regards and thanks for having such a wonderful software for free:)
