
Subject: Do you have performance issues on the VPS?
Posted by [fernandomm](#) on Tue, 01 Dec 2009 11:45:06 GMT
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Hello,

Last weekend i tried to move a high traffic website to a VPS on the same hardware that i was running it before.

I have set the ubc and other parameters like this:

```
# UBC parameters (in form of barrier:limit)
KMEMSIZE="999999999:999999999"
LOCKEDPAGES="256:256"
PRIVVMPAGES="524288:643072"
SHMPAGES="21504:21604"
NUMPROC="2000:2000"
PHYSPAGES="0:9223372036854775807"
VMGUARPAGES="524288:524288"
OOMGUARPAGES="524288:524288"
NUMTCPSOCK="999999999:999999999"
NUMFLOCK="999999999:999999999"
NUMPTY="16:16"
NUMSIGINFO="1024:1024"
TCPSNDBUF="999999999:999999999"
TCPRCVBUF="999999999:999999999"
OTHERSOCKBUF="999999999:999999999"
DGRAMRCVBUF="262144:262144"
NUMOTHERSOCK="999999999:999999999"
DCACHESIZE="3409920:3624960"
NUMFILE="999999999:999999999"
AVNUMPROC="180:180"
NUMIPTENT="800:800"
```

```
# Disk quota parameters (in form of softlimit:hardlimit)
DISKSPACE="211048576:211153024"
DISKINODES="400000:440000"
QUOTATIME="0"
```

```
# CPU fair sheduler parameter
CPUUNITS="153424"
```

After a while running it (it's the same OS, same apache version and conf, same mysql conf etc.) the apache processes stops working and use a lot of CPU (load goes up to 400-500).

If i strace one of the processes, they do not show anything. Also, the apache logs are not updated the this starts to happen.

It is important to note that user_beancounters do not show any failcount, but the system is unusable.

We have about 400 requests per second, but our current hardware was running fine until me moved to a VPS.

Do you see any configuration issues at my ubc parameters? Could the disknodes limitation be causing this problem (limiting apache access to disk and making it goes crazy?)?

Anyway, any opinions and experiences about this issue are welcome

Thanks!

Subject: Re: Do you have performance issues on the VPS?
Posted by [Paparaciz](#) on Tue, 01 Dec 2009 11:59:43 GMT
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what you get if you check in vps:
df -i

Subject: Re: Do you have performance issues on the VPS?
Posted by [fernandomm](#) on Tue, 01 Dec 2009 12:51:38 GMT
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I get this:

```
# df -i
Filesystem      Inodes  IUsed  IFree IUse% Mounted on
simfs           5518274 42517 5475757  1% /
```

This is really weird. If i send 30 concurrent connections my VPS is locked up while the HN is handling more than 500 requests/second current.

```
ab -n 20000 -c 30 http://myurl.com
```

Top:

```
top - 04:48:25 up 1:52, 0 users, load average: 84.37, 20.80, 6.94
Tasks: 254 total, 207 running, 47 sleeping, 0 stopped, 0 zombie
Cpu(s): 0.9%us, 0.4%sy, 0.0%ni, 98.7%id, 0.0%wa, 0.0%hi, 0.0%si, 0.0%st
Mem: 2049136k total, 594000k used, 1455136k free, 0k buffers
Swap: 0k total, 0k used, 0k free, 0k cached
```

```
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
```

545	apache	20	0	248m	9796	4744	R	3.9	0.5	0:01.74	httpd
555	apache	20	0	248m	9832	4676	R	3.9	0.5	0:02.42	httpd
738	apache	20	0	248m	9748	4712	R	3.9	0.5	0:01.76	httpd
1352	apache	20	0	248m	9684	4700	R	3.9	0.5	0:01.44	httpd
3844	apache	20	0	248m	9080	4332	R	3.9	0.4	0:00.42	httpd
3847	apache	20	0	248m	8944	4248	R	3.9	0.4	0:00.40	httpd
3850	apache	20	0	248m	8944	4248	R	3.9	0.4	0:00.38	httpd
3851	apache	20	0	248m	8944	4248	R	3.9	0.4	0:00.42	httpd
3853	apache	20	0	248m	8944	4248	R	3.9	0.4	0:00.38	httpd
3862	apache	20	0	248m	8944	4248	R	3.9	0.4	0:00.38	httpd
3863	apache	20	0	248m	8944	4248	R	3.9	0.4	0:00.36	httpd
3871	apache	20	0	248m	8944	4248	R	3.9	0.4	0:00.34	httpd
3887	apache	20	0	248m	8944	4248	R	3.9	0.4	0:00.36	httpd
3889	apache	20	0	248m	8944	4248	R	3.9	0.4	0:00.36	httpd
3890	apache	20	0	248m	8944	4248	R	3.9	0.4	0:00.38	httpd
3891	apache	20	0	248m	8944	4248	R	3.9	0.4	0:00.34	httpd
3896	apache	20	0	248m	8444	3784	R	3.9	0.4	0:00.32	httpd
3897	apache	20	0	248m	8444	3784	R	3.9	0.4	0:00.32	httpd
3905	apache	20	0	248m	8944	4248	R	3.9	0.4	0:00.32	httpd
3911	apache	20	0	248m	8944	4248	R	3.9	0.4	0:00.30	httpd
3915	apache	20	0	248m	8944	4248	R	3.9	0.4	0:00.30	httpd
3928	apache	20	0	248m	8944	4248	R	3.9	0.4	0:00.34	httpd
3933	apache	20	0	248m	8444	3784	R	3.9	0.4	0:00.32	httpd
3939	apache	20	0	248m	8444	3784	R	3.9	0.4	0:00.28	httpd

```
3940 apache 20 0 248m 8444 3784 R 3.9 0.4 0:00.30 httpd
3942 apache 20 0 248m 8444 3784 R 3.9 0.4 0:00.30 httpd
3945 apache 20 0 248m 8444 3784 R 3.9 0.4 0:00.28 httpd
3951 apache 20 0 248m 5564 1428 R 3.9 0.3 0:00.26 httpd
3953 apache 20 0 248m 5564 1428 R 3.9 0.3 0:00.26 httpd
3955 apache 20 0 248m 5564 1428 R 3.9 0.3 0:00.26 httpd
3957 apache 20 0 248m 5564 1428 R 3.9 0.3 0:00.28 httpd
3961 apache 20 0 248m 5564 1428 R 3.9 0.3 0:00.28 httpd
3967 apache 20 0 248m 5564 1428 R 3.9 0.3 0:00.26 httpd
3968 apache 20 0 248m 5564 1428 R 3.9 0.3 0:00.26 httpd
3981 apache 20 0 248m 5564 1428 R 3.9 0.3 0:00.26 httpd
3983 apache 20 0 248m 5564 1428 R 3.9 0.3 0:00.24 httpd
3984 apache 20 0 248m 5564 1428 R 3.9 0.3 0:00.24 httpd
3985 apache 20 0 248m 5564 1428 R 3.9 0.3 0:00.24 httpd
3999 apache 20 0 248m 5564 1428 R 3.9 0.3 0:00.22 httpd
4005 apache 20 0 248m 5564 1428 R 3.9 0.3 0:00.22 httpd
```

Subject: Re: Do you have performance issues on the VPS?

Posted by [curx](#) on Tue, 01 Dec 2009 14:33:03 GMT

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Hi,

please report the beancounters (resources), ioacct and vmaux of this container like:

```
$ cat /proc/bc/<CTID>/{resources,ioacct,vmaux}
```

Bye,
Thorsten

Subject: Re: Do you have performance issues on the VPS?
Posted by [fernandomm](#) on Tue, 01 Dec 2009 14:46:06 GMT
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Here it is. Under a normal situation.

Do you want me to get this when the high load starts too?

localhost:~# cat /proc/bc/1052/resources

kmemsize	16238542	86373554	999999999	999999999	
0					
lockedpages	0	0	256	256	0
privvmpages	36406	121921	524288	643072	
0					
shmpages	4774	4790	21504	21604	
0					
numproc	41	158	2000	2000	0
physpages	14042	35860	0	9223372036854775807	
0					
vmguarpages	0	0	524288	524288	0
oomguarpages	14042	35872	524288	524288	
0					
numtcpsock	10	319	999999999	999999999	
0					
numflock	4	11	999999999	999999999	
0					
numpty	2	2	16	16	0
numsiginfo	0	15	1024	1024	0
tcpsndbuf	233392	25597408	999999999	999999999	
0					
tcprcvbuf	163840	381192	999999999	999999999	
0					
othersockbuf	6936	17736	999999999	999999999	
0					
dgramrcvbuf	0	4360	262144	262144	0
numothersock	27	31	999999999	999999999	
0					
dcachesize	313626	531474	3409920	3624960	
0					
numfile	1027	2860	999999999	999999999	
0					
numiptent	124	125	800	800	0

localhost:~# cat /proc/bc/1052/ioacct

read	421208064
write	24829952
dirty	24842240
cancel	81920
missed	0
syncs_total	0

```

fsyncs_total          80
fdatasyncs_total     5
range_syncs_total    0
syncs_active         0
fsyncs_active        0
fdatasyncs_active    0
range_syncs_active   0
vfs_reads            444268
vfs_read_chars       791196209
vfs_writes           222586
vfs_write_chars      217866428
io_pbs               3
localhost:~# cat /proc/bc/1052/vmaux
unused_privvmpages    17606
tmpfs_respages       17
swap_pages           0
swapin               30
unmap                40

```

Subject: Re: Do you have performance issues on the VPS?
 Posted by [fernandomm](#) on Tue, 01 Dec 2009 17:19:07 GMT
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Here it is, under a high load situation:

```

localhost:/# cat /proc/bc/1052/resources
    kmemsize          52574232          79876595          999999999          999999999
    0
    lockedpages       0              0              256              256              0
    privvmpages       103875         177876          524288           643072
    0
    shmpages          4134           4790            21504            21604
    0
    numproc           129            233             2000             2000             0
    physpages         24032          74638           0 9223372036854775807
    0
    vmguarpages       0              0              524288           524288           0
    oomguarpages      32664          87515           524288           524288
    0
    numtcpsock        70             115             999999999        999999999
    0
    numflock          7              12              999999999        999999999
    0
    numpty            0              2               16               16               0
    numsigninfo       0              116             1024             1024             0
    tcpsndbuf         1220800        2027664         999999999        999999999
    0

```

0	tcprcvbuf	1146880	215304	999999999	999999999	
0	othersockbuf	43040	184088	999999999	999999999	
0	dgramrcvbuf	0	4360	262144	262144	0
0	numothersock	71	197	999999999	999999999	
0	dcachesize	492036	689226	3409920	3624960	
0	numfile	2469	4210	999999999	999999999	
0	numiptent	124	124	800	800	0

localhost:/# cat /proc/bc/1052/ioacct

read	395423744
write	3526656
dirty	3547136
cancel	61440
missed	0
syncs_total	0
fsyncs_total	81
fdatasyncs_total	4
range_syncs_total	0
syncs_active	0
fsyncs_active	0
fdatasyncs_active	0
range_syncs_active	0
vfs_reads	281220
vfs_read_chars	409438689
vfs_writes	89204
vfs_write_chars	16777536
io_pbs	5

localhost:/# cat /proc/bc/1052/vmaux

unused_privvmpages	76180
tmpfs_respages	471
swap_pages	8632
swpin	383847
unmap	87745
