
Subject: Performance problem... Need help with setting UBC

Posted by [joelee](#) on Sat, 28 Jul 2007 04:22:08 GMT

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Hi All, I am experiencing some performance issues on my new OVZ setup. I have about 5 VPS created. I start to read about UBC but don't quite understand how to properly set UBC.

FYI, I have 4G available and not doing any user traffic right now. Thanks in advance for your help in fixing below!

Below is an output of cat/proc/ubc

ovz:~# cat /proc/user_beancounters

Version: 2.5

201: kmemsize	1565250	2322997	2752512	2936012	0
lockedpages	0	0	32	32	0
privvmpages	14748	24940	49152	53575	0
shmpages	2562	2562	8192	8192	0
dummy	0	0	0	0	0
numproc	26	43	65	65	0
physpages	5553	10410	0	2147483647	0
vmguarpages	0	0	6144	2147483647	0
oomguarpages	5564	10410	6144	2147483647	0
numtcpsock	16	30	80	80	0
numflock	2	6	100	110	0
numpty	0	0	16	16	0
numsiginfo	0	11	256	256	0
tcpsndbuf	3624	47736	319488	524288	0
tcprcvbuf	1208	118472	319488	524288	0
othersockbuf	122760	133080	132096	336896	49
dgramrcvbuf	0	15992	132096	132096	0
numothersock	80	96	120	120	0
dcachesize	0	0	1048576	1097728	0
numfile	691	1087	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
101: kmemsize	2716864	2776123	2752512	2936012	4591
lockedpages	0	0	32	32	0
privvmpages	29549	31686	49152	53575	0
shmpages	2562	2562	8192	8192	0
dummy	0	0	0	0	0
numproc	47	54	65	65	0
physpages	15976	18053	0	2147483647	0
vmguarpages	0	0	6144	2147483647	0

oomguarpages	15976	18053	6144	2147483647	0
numtcpsock	35	43	80	80	0
numflock	3	6	100	110	0
numpty	0	1	16	16	0
numsiginfo	0	15	256	256	0
tcpsndbuf	31248	65016	319488	524288	0
tcprcvbuf	2416	110096	319488	524288	0
othersockbuf	133040	138024	132096	336896	485483
dgramrcvbuf	0	29112	132096	132096	0
numothersock	104	117	120	120	0
dcachesize	0	0	1048576	1097728	0
numfile	1280	1462	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
0: kmemsize	2430594	3350828	2147483647	2147483647	0
lockedpages	0	0	2147483647	2147483647	0
privvmpages	2886	11182	2147483647	2147483647	0
shmpages	657	1313	2147483647	2147483647	0
dummy	0	0	2147483647	2147483647	0
numproc	48	69	2147483647	2147483647	0
physpages	1369	8795	2147483647	2147483647	0
vmguarpages	0	0	2147483647	2147483647	0
oomguarpages	1369	8795	2147483647	2147483647	0
numtcpsock	2	3	2147483647	2147483647	0
numflock	1	2	2147483647	2147483647	0
numpty	1	2	2147483647	2147483647	0
numsiginfo	1	4	2147483647	2147483647	0
tcpsndbuf	29016	37944	2147483647	2147483647	0
tcprcvbuf	32768	16384	2147483647	2147483647	0
othersockbuf	11160	15152	2147483647	2147483647	0
dgramrcvbuf	0	8376	2147483647	2147483647	0
numothersock	18	23	2147483647	2147483647	0
dcachesize	0	0	2147483647	2147483647	0
numfile	853	1216	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

Joe

Subject: Re: Performance problem... Need help with setting UBC
 Posted by [rickb](#) on Sat, 28 Jul 2007 04:35:46 GMT

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which ubc metric do you not understand?

can you be more specific about the performance problem?

ie, performance problem != ubc overage

Rick

Subject: Re: Performance problem... Need help with setting UBC

Posted by [den](#) on Sat, 28 Jul 2007 10:12:44 GMT

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VPS 101 has 80 "other" sockets currently. Other sockets are:

- unix domain
- UDP
- netlink
- packet
- raw IP
- etc

Lets consider Unix domain sockets as an example. In order to function efficiently, they should have something like 64 kb of buffer space. So, the limit should be configured to $64 * 104 = \sim 6.5\text{MB}$. You have only 130kb set.

Also VPS 101 has a kernel memory shortage. Lets start from sockets . You have $104 + 35 = 139$. They consume something like 1MB of kernel memory. There are 35 processes. They also consume 1MB of kernel memory (I have a number of 6 pages per/process as a minimum). There are other consumers like open files etc. So, the limit should be definitely higher.

I think this will help you

Regards,
Den

Subject: Re: Performance problem... Need help with setting UBC

Posted by [kir](#) on Mon, 30 Jul 2007 10:02:38 GMT

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I guess http://wiki.openvz.org/Resource_shortage will answer most of your questions. Do not forget to run `vzcfgvalidate` after changing your VE config.
