Subject: Understanding user_beancounters: tcpsndbuf
Posted by ittec on Fri, 29 Feb 2008 09:02:58 GMT
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Hi again

Since I modified some values of privvmpages on my Linux OpenVz server with your help, no more problems happens with this parameter.

Today I need to explain to you similar trouble, this time with tcpsndbuf. I read the http://wiki.openvz.org/Tcpsndbuf#tcpsndbufproperly thread in OpenVz wiki and I did the calculation about tcpsndfbuf formula:

Current user_beancounters values:

tcpsndbuf:
barrier   ->   5.777.926
limit   -> 12.331.526
fail   -> 455.979.976

numtcpsock:
barrier   ->   1.600
limit   ->   1.600

I think the number of fail is very high. Now with this values Im going to follow the formula that appear in wiki web:

limit - barrier >= 2.5 KB * 1600

12.331.526 - 5.777.926 >= 4.000
6.553.600 >= 4.000

Is right, isn't it? So my first interest is about understand why I have a high number of tcpsndbuf. If I think in formula and I did properly, couldn't happen bad performance on this VE. But the true is the traffic graphics show me bad operation.

Can someone bring me some light here ?

Thanks a lot

Subject: Re: Understanding user_beancounters: tcpsndbuf
Posted by xemul on Mon, 03 Mar 2008 11:52:17 GMT
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Quote:So my first interest is about understand why I have a high number of tcpsndbuf.

High tcpsndbuf means that there are many active (i.e. passing data) TCP connections on the node.

Quote:couldn't happen bad performance on this VE.

Small tcpsndbuf may cause a small performance degradation even when there's one TCP connection on the whole node. You may increase the one and check.

This limit was designed not to allow a VE users consume too many kernel memory by sending large amount of TCP packets. The difference between limit and barrier is used to provide a minimal speed for TCP connection when all the sockets are active.

Subject: Re: Understanding user_beancounters: tcpsndbuf
Posted by ittec on Mon, 03 Mar 2008 12:38:48 GMT
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Ok. I have changed the values of tcpnsdbuf increasing the total. Ill check the failcnt in next days.

Thanks