
Subject: Understanding user_beancounters: tcpsndbuf

Posted by [ittec](#) on Fri, 29 Feb 2008 09:02:58 GMT

[View Forum Message](#) <> [Reply to Message](#)

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 tcpsndbuf 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 I'm going to follow the formula that appear in wiki web:

$\text{limit} - \text{barrier} \geq 2.5 \text{ KB} * 1600$

$12.331.526 - 5.777.926 \geq 4.000$

$6.553.600 \geq 4.000$

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

[View Forum Message](#) <> [Reply to Message](#)

Quote: So my first interest is about understand why I have a high number of tcpsndbuf.

High tcpwndbuf 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 tcpwndbuf 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: tcpwndbuf
Posted by [ittec](#) on Mon, 03 Mar 2008 12:38:48 GMT
[View Forum Message](#) <> [Reply to Message](#)

Ok. I have changed the values of tcpwndbuf increasing the total. Ill check the failcnt in next days.

Thanks
