
Subject: Re: Debug numtcpsock growing without bounds

Posted by [stompro](#) on Fri, 24 Jul 2015 13:49:32 GMT

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I think I have this figured out.

The problem had nothing to do with OpenVZ, other than being apparent because of how OpenVZ meters resources out.

The problem was in a perl module that apache was loading, it was making a http request and calling shutdown on the connection at the end, but not calling close also on the connection, so the file descriptor was never cleared but it was still counted as a tcp connection by user_beancounters. Connections that are shutdown but not closed are not shown in netstat or ss -s. These can also be caused by socket connection that are allocated, but never connected, when there is a socket call but never a connect that follows it. The socket FD (File Descriptor) just hangs around until the program exits.

To view these connections use the command

`lsof | grep " sock "`

or to just get a count

`lsof | grep " sock " | wc -l`

The results look like this, here are several processes that each have 1-2 orphan sockets. These are counted in the numtcpsock total even though they don't show up as connections.

udevd	151	root	4u	sock	0,6	0t0	22177 can't identify protocol
rpcbind	828	root	4u	sock	0,6	0t0	24640 can't identify protocol
sudo	28430	root	5u	sock	0,6	0t0	74035691 can't identify protocol
/usr/sbin	28886	root	3u	sock	0,6	0t0	74055248 can't identify protocol
/usr/sbin	28886	root	5u	sock	0,6	0t0	74055252 can't identify protocol
/usr/sbin	28903	opensrf	3u	sock	0,6	0t0	74055248 can't identify protocol
/usr/sbin	28903	opensrf	5u	sock	0,6	0t0	74055252 can't identify protocol
/usr/sbin	28904	opensrf	3u	sock	0,6	0t0	74055248 can't identify protocol
/usr/sbin	28904	opensrf	5u	sock	0,6	0t0	74055252 can't identify protocol
/usr/sbin	28906	opensrf	3u	sock	0,6	0t0	74055248 can't identify protocol
/usr/sbin	28906	opensrf	5u	sock	0,6	0t0	74055252 can't identify protocol
/usr/sbin	28907	opensrf	3u	sock	0,6	0t0	74055248 can't identify protocol
/usr/sbin	28907	opensrf	5u	sock	0,6	0t0	74055252 can't identify protocol
/usr/sbin	28908	opensrf	3u	sock	0,6	0t0	74055248 can't identify protocol
/usr/sbin	28908	opensrf	5u	sock	0,6	0t0	74055252 can't identify protocol
/usr/sbin	28910	opensrf	3u	sock	0,6	0t0	74055248 can't identify protocol

I used strace on the apache processes to find which sockets were being shutdown but not closed. Then found the perl code that was just calling shutdown and fixed that, and now there is no more problem.

Josh
