Subject: HN Dropping Packets
Posted by HaroldB on Thu, 22 Jun 2006 19:26:31 GMT
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Hello, My HN seems to be dropping some packets (1-5%) on occassion to the VPS. When tracerouting from the net, I see * on the HN route sometimes. The HN is not out of memory and the VPS beancounters has no failcounts. I do see this many times in dmesg:

Out of socket memory

I feel that this thread may hold useful information to me, but it is written in Russian. Can someone tell me if this describes my symptom and problem?

 http://forum.openvz.org/index.php?t=msg&goto=1899&&srch=Out+of+socket+memory#msg_1899

Thank you
Harold P. Bogwaters

Subject: Re: HN Dropping Packets
Posted by Vasily Tarasov on Fri, 23 Jun 2006 05:46:05 GMT
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The message "Out of socket memory" appears in the following cases:

1) (The number of orphaned sockets in VE) >= 1/4 * (numtcpsock.barrier)

2) (The number of orphaned sockets in VE) > (sysctl's net.ipv4.tcp_max_orphans)

3) More sophisticated "memory" condition.

You can use google to find out what are orphaned sockets and why they appear.

Then you can increase numtcpsock barrier and sysctl's net.ipv4.tcp_max_orphans, if you wish.

The number orphaned sockets in the system you can see in /proc/net/sockstat.

Hope this help!

Subject: Re: HN Dropping Packets
Posted by HaroldB on Fri, 23 Jun 2006 16:02:05 GMT
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Thanks for the info. Would this condition cause the HN to drop packets destined for VPS?

Since I am seeing dropped ICMP packets, could the number of orphaned tcp sockets have anything to do with the problem? What else could cause ICMP packets to be dropped on the HN en route to the VPS?

Harold

Subject: Re: HN Dropping Packets
Posted by dev on Fri, 23 Jun 2006 19:14:01 GMT
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do you have lost packets between host system and a VPS?

Most probably the reason is inside your network. I experienced some situations when a bad cable or a broken switch could cause similar effects. In this case you will have lost packets both when accessing the host system or a VPS.

Lost packets can also be normal when traffic shaping is used. But I suppose this is not a case, right?

Subject: Re: HN Dropping Packets
Posted by HaroldB on Fri, 23 Jun 2006 19:16:50 GMT
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I was using some rules from http://wiki.openvz.org/Traffic_shaping_with_tc

I believe this may have caused the problem. I have removed them to verify. However, the limit (mbit/sec) for each IP which I enforced was not reached when the packets are being dropped. Are there any limitations to this which we should be aware of?

Harold

Subject: Re: HN Dropping Packets
Posted by dev on Mon, 26 Jun 2006 08:12:29 GMT
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There should be no limitations with TC. But in each particular case you need to get into details to understand why it drops packets. You need to monitor the traffic and make sure it really does not saturate your TC rules.