Subject: *SOLVED* Out of socket memory
Posted by whatever on Sat, 14 Jul 2007 10:28:35 GMT
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Our system was running 4gig RAM but we upgraded to 8gig. Before that it was working fine but now it give error Out of socket memory.

The swap is 2gigs.
How can we increase the SWAP as we have added more RAM. We don't want to play with partitions on live box.

Any suggestions.

Subject: Re: Out of socket memory
Posted by whatever on Sat, 14 Jul 2007 11:57:07 GMT
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Jul 13 17:24:26 localhost kernel: printk: 15 messages suppressed.
Jul 13 17:24:26 localhost kernel: TCP: too many of orphaned sockets
Jul 13 17:24:44 localhost kernel: Out of socket memory
Jul 13 17:24:52 localhost kernel: TCP: too many of orphaned sockets
Jul 13 17:24:52 localhost last message repeated 3 times
Jul 13 17:24:58 localhost kernel: printk: 3 messages suppressed.
Jul 13 17:24:58 localhost kernel: TCP: too many of orphaned sockets
Jul 13 17:25:03 localhost kernel: printk: 1 messages suppressed.
Jul 13 17:25:03 localhost kernel: TCP: too many of orphaned sockets
Jul 13 17:25:06 localhost kernel: printk: 8 messages suppressed.
Jul 13 17:25:06 localhost kernel: TCP: too many of orphaned sockets
Jul 13 17:25:11 localhost kernel: printk: 19 messages suppressed.
Jul 13 17:25:11 localhost kernel: TCP: too many of orphaned sockets
Jul 13 17:25:25 localhost kernel: printk: 8 messages suppressed.
Jul 13 17:25:25 localhost kernel: TCP: too many of orphaned sockets
Jul 13 17:25:25 localhost kernel: TCP: too many of orphaned sockets
Jul 13 17:25:26 localhost kernel: printk: 2 messages suppressed.
Jul 13 17:25:26 localhost kernel: TCP: too many of orphaned sockets
Jul 13 17:25:31 localhost kernel: printk: 14 messages suppressed.
Jul 13 17:25:31 localhost kernel: TCP: too many of orphaned sockets
Jul 13 17:25:36 localhost kernel: printk: 14 messages suppressed.
Jul 13 17:25:36 localhost kernel: TCP: too many of orphaned sockets
Jul 13 17:25:42 localhost kernel: printk: 4 messages suppressed.
Jul 13 17:25:42 localhost kernel: Out of socket memory
Jul 13 17:25:45 localhost kernel: printk: 8 messages suppressed.
Jul 13 17:25:45 localhost kernel: TCP: too many of orphaned sockets
Jul 13 17:25:53 localhost kernel: printk: 31 messages suppressed.
Jul 13 17:25:53 localhost kernel: TCP: too many of orphaned sockets
Jul 13 17:26:01 localhost kernel: printk: 1 messages suppressed.
Jul 13 17:26:01 localhost kernel: TCP: too many of orphaned sockets

Jul 13 17:26:01 localhost kernel: TCP: too many of orphaned sockets
Jul 13 17:26:08 localhost kernel: printk: 7 messages suppressed.
Jul 13 17:26:08 localhost kernel: TCP: too many of orphaned sockets
Jul 13 17:26:13 localhost kernel: printk: 10 messages suppressed.
Jul 13 17:26:13 localhost kernel: TCP: too many of orphaned sockets
Jul 13 17:26:16 localhost kernel: printk: 3 messages suppressed.
Jul 13 17:26:16 localhost kernel: TCP: too many of orphaned sockets
Jul 13 17:26:20 localhost kernel: printk: 15 messages suppressed.
Jul 13 17:26:20 localhost kernel: Out of socket memory
Jul 13 17:27:00 localhost kernel: TCP: too many of orphaned sockets
Jul 13 17:27:01 localhost last message repeated 2 times

Subject: Re: Out of socket memory
Posted by Vasily Tarasov on Mon, 16 Jul 2007 08:59:17 GMT
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Hello, you can try to set sysctl's net.ipv4.tcp_max_orphans variable to a higher value. Also, check /proc/user_beancounters on failcounters.

BTW, what kernel version do you use?

As concerns increasing swap. Actually I think it isn't OpenVZ related question - it is a common problem for Linux Servers. So, probably you can find the answer on other sites/forums in Internet.

HTH,
Vasily.

Subject: Re: Out of socket memory
Posted by whatever on Mon, 16 Jul 2007 09:17:16 GMT
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Kernel : 2.6.9-023stab040.1-enterprise #1 SMP Tue Jan 16 01:09:22 MSK 2007 i686 i686 i386 GNU/Linux

net.ipv4.tcp_max_orphans is not defined in sysctl. What value we should define for net.ipv4.tcp_max_orphans server confi is dual xeon 3ghz/8gig ram

In user_beancounters only 2 vps have failcnt for privvmpages, numproc and numfile.

Thanks

Subject: Re: Out of socket memory

Posted by vaverin on Mon, 16 Jul 2007 11:08:59 GMT
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I would like to clearify the situation about "TCP: too many of orphaned sockets" messages.

Orphaned socket is something like "ghost session". It is incorrectly closed socket that however can contain data or due some another reasons cannot be freed immediately and should live some time after closing. Usually these sockets appears because the client has crashed.

As you know, our kernel limits the number of tcp sockets accessible for VE, and if all VE sockets will be orphaned, nobody can connect to this VE. That's why our kernel limits the maximal number of orphaned sockets by 1/4 of numtcpsock assigned for VE.
When inside some of VE number of orphaned sockets reach this limit -- kernel outputs the message "TCP: too many of orphaned sockets" and frees this socket. It is correct behavior, and usual linux kernels do the same in some rare cases.

Therefore it is not a trouble, just kernel informed you that some of your VE produced too many incorrectly closed sockets.
To prevent these messages you can try to increase numtcpsock parameters for your VE's, but IMHO it's useless: if some of application inside VE can produce 10 orphaned sockets -- it will be able to produce 100 and 1000 socketes some time later. IMHO It's better to limits these resources and use it for the common good.

Update: Btw. I've checked "Out of socket memory" message -- it's triggered by the same condition, but in another function.

Thank you,
Vasily Averin