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Subject: HowTo modify parameters in /etc/sysconfig/vz-scripts/ve-vps conf file  
Posted by [andyreed](#) on Mon, 08 Oct 2007 17:59:56 GMT

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I split my dedicated server resources for 3 VEs. These 3 VEs share 2 x 160GB HDs RAID1, and 2GB RAM Memeory, respectively.

----- My conf file -----

CLASSID="2"

VERSION="2"

# Primary parameters

VMGUARPAGES="32770:32770"

# Secondary parameters

DGRAMRCVBUF="1318528:1318528"

OOMGUARPAGES="31250:31250"

OTHERSOCKBUF="1318528:2440832"

PRIVVMPAGES="500000:750000"

TCPRCVBUF="2637056:3759360"

TCPSNDBUF="2637056:3759360"

# Auxiliary parameters

CPULIMIT="300"

CPUUNITS="7370"

DCACHESIZE="8525184:9525184"

DISKINODES="55781934:55960128"

DISKSPACE="5208598:59714458"

IPENTRIES="3000:4000"

KMEMSIZE="60252800:121278080"

LOCKEDPAGES="550:550"

NUMFILE="20000:25000"

NUMFLOCK="438:481"

NUMOTHERSOCK="10000:12000"

NUMPROC="700:1000"

NUMPTY="100:200"

NUMSIGINFO="1024:1024"

NUMTCPSOCK="1000:2000"

PHYSPAGES="0:2147483647"

SHMPAGES="400000:512000"

But, when I validate the my conf file, I get the following error message:

Error: barrier should be equal to limit for numproc (currently, 700:1000)

Error: barrier should be equal to limit for numtcpsock (currently, 1000:2000)

Error: barrier should be equal to limit for numothersock (currently, 10000:12000)

Error: limit should be = 2147483647 for vmguarpages (currently, 32770)

Error: barrier should be <= limit for tcpsndbuf (currently, 2637056:2560000)

Error: barrier should be <= limit for tcprcvbuf (currently, 2637056:2560000)  
Error: barrier should be <= limit for othersockbuf (currently, 2637056:2560000)  
Error: limit should be = 2147483647 for oomguarpages (currently, 31250)  
Error: barrier should be equal to limit for shmpages (currently, 400000:512000)  
Error: barrier should be equal to limit for numfile (currently, 20000:25000)  
Error: barrier should be equal to limit for numpty (currently, 100:200)  
Error: barrier should be equal to limit for numiptent (currently, 3000:4000)

Would you please help me fix the parameters above? Thank you

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Subject: Re: HowTo modify parameters in /etc/sysconfig/vz-scripts/ve-vps conf file  
Posted by [rickb](#) on Mon, 08 Oct 2007 18:16:50 GMT  
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for example:

Error: barrier should be equal to limit for numproc (currently, 700:1000)

means to change:

NUMPROC="700:1000"

to:

NUMPROC="1000:1000"

or

NUMPROC="700:700"

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Subject: Re: HowTo modify parameters in /etc/sysconfig/vz-scripts/ve-vps conf file  
Posted by [andyreed](#) on Mon, 08 Oct 2007 18:38:54 GMT  
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Tried different values for these parameters, but no go:

Error: limit should be = 2147483647 for vmguarpages (currently, 32770)  
Error: tcpsndbuf.lim-tcpsndbuf.bar should be > 2560000 (currently, 1122304)  
Error: othersockbuf.lim-othersockbuf.bar should be > 25600000 (currently, 1122304)  
Warning: tcprcvbuf.lim-tcprcvbuf.bar should be > 2560000 (currently, 1122304)

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Subject: Re: HowTo modify parameters in /etc/sysconfig/vz-scripts/ve-vps conf file  
Posted by [rickb](#) on Mon, 08 Oct 2007 18:44:12 GMT  
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well those are of a different problem type. its actually quite clear:

Error: barrier should be <= limit for tcpsndbuf (currently, 2637056:2560000)

2637056:2560000 is wrong

try:

2637056:6660000

or anything where:

(barrier <= limit) && (tcpsndbuf.lim-tcpsndbuf.bar > 2560000)

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Subject: Re: HowTo modify parameters in /etc/sysconfig/vz-scripts/ve-vps conf file  
Posted by [andyreed](#) on Mon, 08 Oct 2007 19:13:12 GMT

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Two questions:

1. Any body can help validating these values?
2. Do you think these are ideal values for 3 VPSs sharing 3GHZ Dual Core Processor, 2x160GB HDs and 2GB RAM?

# Primary parameters

VMGUARPAGES="310952:2147483647"

ONBOOT="yes"

# Secondary parameters

OOMGUARPAGES="310952:2147483647"

OTHERSOCKBUF="14129288:46897288"

PRIVVMPAGES="310952:342047"

DGRAMRCVBUF="1318528:1318528"

TCPRCVBUF="14129288:30513288"

TCPSNDBUF="14129288:30513288"

# Auxiliary parameters

CPUUNITS="120000"

CPULIMIT="400"

DCACHESIZE="8525184:9525184"

DISKINODES="55781934:55960128"

DISKSPACE="5208598:59714458"

IPTENTRIES="3000:3000"

KMEMSIZE="60252800:121278080"

LOCKEDPAGES="550:550"

NUMFILE="20000:20000"

NUMFLOCK="438:481"

NUMOTHERSOCK="10000:10000"

NUMPROC="1000:1000"

NUMPTY="100:100"

NUMSIGINFO="1024:1024"

NUMTCP SOCK="1000:1000"

PHYSPAGES="0:2147483647"

Thank you!

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Subject: Re: HowTo modify parameters in /etc/sysconfig/vz-scripts/ve-vps conf file  
Posted by [dowdle](#) on Mon, 08 Oct 2007 22:30:57 GMT

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You said you "split" it. Did you use vzsplit? If not, give it a try. It'll produce values that are valid.

Only 3 VPSes on a machine with 2GB of RAM? Are those VPSes running heavy apps or something? You should be able to fit 2 to 3 times that easily... unless you are running a very resource heavy app on one or more of them (like Zimbra for example).

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