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Subject: mem intensive apps such as firefox fail despite kmem changes

Posted by [paul\\_xedos](#) on Thu, 06 Dec 2007 12:10:34 GMT

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Hi,

I have a fairly large 8 cpu, 16gb Host Node which I am planning to divide up into 20 VE's using vzsplrit. The idea is for remote users to connect in and receive virtual desktops through NoMachine. Everything works but bigger apps such as firefox and eclipse fail with non-obvious errors although they work fine outside of the VEs. I'm pretty sure its resources related but beancounters shows no fails, vzmemcheck and vzcpucheck looks ok

Output values in %

veid	LowMem util	LowMem commit	LowMem util	RAM util	MemSwap commit	MemSwap util	MemSwap commit	Alloc limit	Alloc	Alloc
44	0.23	4.59	0.16	0.15	4.96	0.85	4.96	31.10		
2281	0.23	4.59	0.16	0.15	4.96	0.85	4.96	31.10		
2283	0.76	5.25	1.08	0.96	5.00	2.50	5.00	31.14		

-----  
Summary: 1.22 14.44 1.41 1.25 14.92 4.20 14.92 93.33

What does seem odd is that despite changing the params in the VEID conf file it does not seem to make a diff to the vzctl startup message about meminfo

```
[root@titan vz-scripts]# vzctl start 2281
```

```
Starting VE ...
```

```
VE is mounted
```

```
Adding IP address(es): 10.4.38.41
```

```
Setting CPU units: 56996
```

```
Setting devices
```

```
Configure meminfo: 1306104
```

```
Set hostname: vz1
```

```
File resolv.conf was modified
```

```
VE start in progress...
```

```
[root@titan vz-scripts]# cat 2281.conf
```

```
# Configuration file generated by vzsplrit for 20 VEs
```

```
# on HN with total amount of physical mem 16219 Mb
```

```
# low memory 2907 Mb, swap size 2000 Mb, Max treads 8000
```

```
# Resource commit level 0:
```

```
# Free resource distribution. Any parameters may be increased
```

```
# Primary parameters
```

```
NUMPROC="744:744"
```

```
AVNUMPROC="372:372"
```

```
NUMTCPSOCK="744:744"
```

```
NUMOTHERSOCK="744:744"
```

```
VMGUARPAGES="217684:2147483647"
```

```
# Secondary parameters
KMEMSIZE="22093824:25533558"
TCPSNDBUF="7114260:10161684"
TCPRCVBUF="7114260:10161684"
OTHERSOCKBUF="3557130:6604554"
DGRAMRCVBUF="3557130:3557130"
OOMGUARPAGES="217684:2147483647"
PRIVVMPAGES="1306104:1436714"

# Auxiliary parameters
LOCKEDPAGES="1488:1488"
SHMPAGES="130610:130610"
PHYSPAGES="0:2147483647"
NUMFILE="11904:11904"
NUMFLOCK="1000:1100"
NUMPTY="74:74"
NUMSIGINFO="1024:1024"
DCACHESIZE="6656994:6856704"
NUMIPTENT="100:100"
DISKSPACE="10000000:15000000"
DISKINODES="2484370:2732808"
CPUUNITS="56996"
HOSTNAME="vz1"
VE_ROOT="/vz/root/$VEID"
VE_PRIVATE="/vz/private/$VEID"
OSTEMPLATE="rhel-4.4-i386-newdev"
ORIGIN_SAMPLE="20vps"
NAMESERVER="10.4.22.98"
ONBOOT="yes"
DEVNODES="tty0:rw "
IP_ADDRESS="10.4.38.41"
#NETIF="ifname=eth0,mac=00:19:99:01:8B:6A,host_ifname=veth2281.0,host_mac=00:19:99:01:8B:6B"
NETIF=""
```

Do changes to the conf file take place on start up or only when the VE is created

Thanks  
Paul

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Subject: Re: mem intensive apps such as firefox fail despite kmem changes  
Posted by [vaverin](#) on Thu, 06 Dec 2007 13:44:44 GMT  
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paul\_xedos wrote on Thu, 06 December 2007 15:10I have a fairly large 8 cpu, 16gb Host Node

which I am planning to divide up into 20 VE's using vzsplitt. The idea is for remote users to connect in and receive virtual desktops through NoMachine. Everything works but bigger apps such as firefox and eclipse fail with non-obvious errors although they work fine outside of the VEs. I'm pretty sure its resources related but beancounters shows no fails, vzmemcheck and vzcpucheck looks ok

To measure memory consumption You can remove all limits from Your test VE and execute all required application. Then You can run some tests that will emulate real load. Bu this way you will know maxumum values of of resources consumption and will be able to set these values as limits.

paul\_xedos wrote on Thu, 06 December 2007 15:10What does seem odd is that despite changing the params in the VEID conf file it does not seem to make a diff to the vzctl startup message about meminfo

Meminfo shows privvmpages barrier value.

thank you,  
Vasily Averin

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Subject: Re: mem intensive apps such as firefox fail despite kmem changes  
Posted by [paul\\_xedos](#) on Thu, 06 Dec 2007 14:00:17 GMT

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Thankyou very much for this Vasily. Could I just confirm whether the config file changes take effect on start up or only when a VE is first created

Cheers  
Paul

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Subject: Re: mem intensive apps such as firefox fail despite kmem changes  
Posted by [paul\\_xedos](#) on Thu, 06 Dec 2007 14:32:06 GMT

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No need to answer - read the manual again and it takes effect after doing a vzctl stop / start

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Subject: Re: mem intensive apps such as firefox fail despite kmem changes  
Posted by [paul\\_xedos](#) on Thu, 06 Dec 2007 14:57:33 GMT

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Sorry to sound such a duffer but is there an easy way to remove all limits as suggested. Hashing out most of the resources params in the VEID.conf file causes these errors on start up

```
[root@titan vz-scripts]# vzctl start 3842
UB parameter physpages not set
UB parameter vmguarpages not set
UB parameter oomguarpages not set
```

UB parameter numtcpsock not set  
UB parameter numflock not set  
UB parameter numpty not set  
UB parameter numsiginfo not set  
UB parameter tcpsndbuf not set  
.....truncated.....  
UB parameter tcprcvbuf not set  
UB parameter othersockbuf not set  
UB parameter dgramrcvbuf not set  
UB parameter numothersock not set  
UB parameter numfile not set  
UB parameter dcachesize not set  
UB parameter numiptent not set

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Subject: Re: mem intensive apps such as firefox fail despite kmem changes

Posted by [vaverin](#) on Fri, 07 Dec 2007 05:28:09 GMT

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Hi Paul,

Sorry for confusing You,

I mean You can set paramters to its maximal values (i.e. to MAX\_INT, 2147483647) -- in this case it will limit nothing.

thank You,

Vasily Averin

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