
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