
Subject: vzsplrit issue?

Posted by [imknight](#) on Mon, 14 Jan 2008 00:21:42 GMT

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Is there an issue with vzsplrit - if i use any value less than 15 i get the same value for PRiVVMPPAGES and VMGUARPAGES (and others but these are ones that concern)

```
[root@vps ~]# vzsplrit -n 1 | grep -E "VMGUAR|PRiVVM"
VMGUARPAGES="504818:2147483647"
PRiVVMPPAGES="504818:555299"
[root@vps ~]# vzsplrit -n 10 | grep -E "VMGUAR|PRiVVM"
VMGUARPAGES="504818:2147483647"
PRiVVMPPAGES="504818:555299"
[root@vps ~]# vzsplrit -n 12 | grep -E "VMGUAR|PRiVVM"
VMGUARPAGES="504818:2147483647"
PRiVVMPPAGES="504818:555299"
[root@vps ~]# vzsplrit -n 14 | grep -E "VMGUAR|PRiVVM"
VMGUARPAGES="504818:2147483647"
PRiVVMPPAGES="504818:555299"
[root@vps ~]# vzsplrit -n 15 | grep -E "VMGUAR|PRiVVM"
VMGUARPAGES="83261:2147483647"
PRiVVMPPAGES="499566:549522"
```

The head of vzsplrit shows the following:

```
# Configuration file generated by vzsplrit for 10 VEs
# on HN with total amount of physical mem 3286 Mb
# low memory 854 Mb, swap size 1983 Mb, Max treads 8000
# Resource commit level 0:
# Free resource distribution. Any parameters may be increased
# Primary parameters
```

As i was only doing a split of 10 this was totally over allocating resources.

This is happening using Fedora5 and Fedora6 as the main HN.

Also two seperate kernels

Linux xxxx 2.6.18-ovz028stab027.1-smp #1 SMP Mon Apr 9 16:21:10 MSD 2007 i686 i686 i386
GNU/Linux

and

Linux xxxx.com 2.6.18-8.1.15.el5.028stab049.1 #1 SMP Thu Nov 8 16:23:12 MSK 2007 i686 i686
i386 GNU/Linux

Any ideas on the cause of this and how to fix? This has caused an issue as without realising it

was seriously over committing resources, deliberately used the vzsplrit command to avoid this happening!

Subject: Re: vzsplrit issue?

Posted by [vaverin](#) on Mon, 14 Jan 2008 05:33:54 GMT

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We do not recommend to allow one VE to allocate more than 60% RAM

http://wiki.openvz.org/UBC_systemwide_configuration#Limiting_memory_allocations

On the other hand it looks like vmguar barrier is set incorrectly for n<15. I've fixed recently this issue recently and would recommed you upgrade vzctl package up to vzctl-3.0.22 version where thi issue is fixed.

thank you,
Vasily Averin

Subject: Re: vzsplrit issue?

Posted by [imknight](#) on Mon, 14 Jan 2008 07:56:52 GMT

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using more than 60% of resources was definitely not what was intended hence the use of vzsplrit.

I have just updated to the latest vzsplrit and this does indeed seem to have sorted this issue - now to go and update lots of config files to proper limits
