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Subject: Swap with non-VSwap kernel

Posted by [Artem](#) on Fri, 23 Dec 2011 23:28:55 GMT

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Hi,

OpenVZ is great, it saves me much time maintaining a bunch of similar VMs. Migration from VirtualBox to OpenVZ seems to be a great idea, and I now have 7 VMs instead of 4 on the same hardware!

Recently got that enabling swap on containers can increase performance (it's application-specific). After changing swappages to a value for 4GB, I was able to see 4GB swap inside a container. But it remains 100% free all the time, even when container runs out of memory.

Unfortunately I'm stuck to 2.6.18 kernel and CentOS 5.7. Is there any way to force containers to make use of swap?

Thanks!

-Artem

HN Hardware: 16 GB RAM, Intel(R) Core(TM)2 Duo CPU E7500 @ 2.93GHz

HN OS: CentOS 5.7 (Final)

Kernel: Linux 2.6.18-274.3.1.el5.028stab094.3ent (it's not yet VSwap, right?)

```
# rpm -qa | grep vz
vzctl-3.0.29.3-1
vzkernel-firmware-2.6.32-042stab036.6
vzquota-3.0.12-1
vzctl-lib-3.0.29.3-1
ovzkernel-ent-2.6.18-274.3.1.el5.028stab094.3
```

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Subject: Re: Swap with non-VSwap kernel

Posted by [azagzin](#) on Fri, 30 Dec 2011 16:43:56 GMT

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Hi,

from VSwap wiki page <http://wiki.openvz.org/Vswap>

Quote:

New RHEL6-based OpenVZ kernel has a new memory management model, which supersedes User beancounters. It is called VSwap.

Happy New Year !!!

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Subject: Re: Swap with non-VSwap kernel  
Posted by [Artem](#) on Fri, 30 Dec 2011 16:52:00 GMT  
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Thanks, I see, but it does not clarify if/why I can(not) use swap in EL5. Actually 'RHEL6' looks confusing for me as a CentOS user.

Happy New Year!

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Subject: Re: Swap with non-VSwap kernel  
Posted by [Ales](#) on Sat, 31 Dec 2011 14:02:28 GMT  
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Er... you cannot use VSwap with RHEL/CentOS/Scientific Linux/etc. 5 openvz kernels because they don't support it. I think that much is obvious...

Sorry. I know it looks like a nice thing to have...

OK, joking aside. You might be able to run a RHEL 6 kernel on a RHEL 5 system (or CentOS or whatever), without upgrading the node OS. I'd do some testing before trying this on a production server, though.

Happy New Year

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Subject: Re: Swap with non-VSwap kernel  
Posted by [Artem](#) on Sat, 31 Dec 2011 14:24:22 GMT  
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Hi,

Thanks, I just didn't get the line between 'vswap' and 'swap'. I thought of VSwap just as a new model of memory configuration, not the thing which brings the ability to use swap in containers.

Will try to upgrade the kernel when I have a chance. For now I can only use 2.6.18, gah!

thanks for the clarification. All my questions seem answered now.

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Subject: Re: Swap with non-VSwap kernel  
Posted by [seanfulton](#) on Thu, 23 Feb 2012 16:06:24 GMT  
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IN RHEL5, you define a block of memory and OpenVZ takes care of what gets swapped and what does not. There are a lot of tuning options you can apply to determine how things get swapped, but the end result is--in my opinion--not a lot of control over how RAM/SWAP is allocated on a

per-VE basis.

On a 16G machine wiht 16G swap, you wind up having to allocated 32G of RAM, and let Openvz manage it.

With the new vswap kernel, you can divvy up ram yourself.

sean

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Subject: Re: Swap with non-VSwap kernel  
Posted by [Artem](#) on Thu, 23 Feb 2012 16:43:33 GMT  
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oh. This is great. Thank you for this description sean!

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