
Subject: Sharing pages between VMs

Posted by [Enrico Weigelt](#) on Wed, 20 Sep 2006 11:36:06 GMT

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Hi folks,

is it possible to share pages between several VMs if they use the same filesystem ?

This would have the advantage that, for example, processes on several VMs mmap the files (ie. text segments), much memory would be saved.

thx

--

Enrico Weigelt == metux IT service - <http://www.metux.de/>

Please visit the OpenSource QM Taskforce:

http://wiki.metux.de/public/OpenSource_QM_Taskforce

Patches / Fixes for a lot dozens of packages in dozens of versions:

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Subject: Re: Sharing pages between VMs

Posted by [Pavel Emelianov](#) on Wed, 20 Sep 2006 14:06:27 GMT

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Enrico Weigelt wrote:

> Hi folks,

>

> is it possible to share pages between several VMs if they use
> the same filesystem ?

This is done "autmatically" :)

When two VEs open/mmap the same file it's pages are shared between them.

>

> This would have the advantage that, for example, processes on
> several VMs mmap the files (ie. text segments),
> much memory would be saved.

>

>

> thx

Subject: Re: Re: Sharing pages between VMs
Posted by [Cranky](#) on Wed, 20 Sep 2006 14:09:33 GMT
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I am out of the office until Tuesday 26th September 2006.

Please contact our team via the following for any issues relating to a hosting account:

Billing - [billing\[at\]transnexus.com](mailto:billing[at]transnexus.com)
Domain Renewals/Transfers/Registrations - [domains\[at\]transnexus.com](mailto:domains[at]transnexus.com)
Sales - [sales\[at\]transnexus.com](mailto:sales[at]transnexus.com)
Support - [support\[at\]transnexus.com](mailto:support[at]transnexus.com) (24/7)

If you have any queries please contact Damien Ransome via damien@transnexus.com, and for problems with technical support please email Daniel Pop via daniel@transnexus.com.

For anything else I will get back to you as quickly as possible when I return.

Regards,

Andrew Cranson
Transnexus Hosting
www.transnexus.com

Subject: Re: Sharing pages between VMs
Posted by [Enrico Weigelt](#) on Mon, 25 Sep 2006 19:38:03 GMT
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* Pavel Emelianov <xemul@openvz.org> wrote:
> Enrico Weigelt wrote:
> > Hi folks,
> >
> > is it possible to share pages between several VMs if they use
> > the same filesystem ?
>
> This is done "autmatically" :)
> When two VEs open/mmap the same file it's pages
> are shared between them.

Cool :)

Now the interesting question: how can I mount several dirs in
away that one VE cannot hurth another and mmap'ing is possible
(AFAIK network filesystems are not mmap-capable).

Does simfs handle all that properly ?

cu

--

Enrico Weigelt == metux IT service - <http://www.metux.de/>

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Subject: Re: Sharing pages between VMs

Posted by [Pavel Emelianov](#) on Thu, 28 Sep 2006 12:32:32 GMT

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Enrico Weigelt wrote:

> * Pavel Emelianov <xemul@openvz.org> wrote:

>

>> Enrico Weigelt wrote:

>>

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>>> is it possible to share pages between several VMs if they use

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>>>

>> This is done "autmatically" :)

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> Cool :)

> Now the interesting question: how can I mount several dirs in

> away that one VE cannot hurth another and mmap'ing is possible

> (AFAIK network filesystems are not mmap-capable).

> Does simfs handle all that properly ?

>

Unfortunately no. Simfs doesn't have any builtin sharing/protection.

You may bind-mount some subtree into several VEs for needed shared subdirs, but you must make some write-protection manually. This is usefull for "/bin" for example.

>

> cu

>
