Subject: Sharing pages between VMs
Posted by Enrico Weigelt on Wed, 20 Sep 2006 11:36:06 GMT

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:
 http://patches.metux.de/
 -- ---------

Subject: Re: Sharing pages between VMs
Posted by Pavel Emelianov on Wed, 20 Sep 2006 14:06:27 GMT

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]transnexis.com
Domain Renewals/Transfers/Registrations - domains[at]transnexis.com
Sales - sales[at]transnexis.com
Support - support[at]transnexis.com (24/7)

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

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

Regards,

Andrew Cranson
Transnexis Hosting
www.transnexis.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

--

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:
>>
>>> Hi folks,
>>>
>>> is it possible to share pages between several VMs if they use
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> 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
>