
Subject: Query on host swapping of guest pages.

Posted by [Arn](#) on Sat, 05 Jul 2008 05:42:57 GMT

[View Forum Message](#) <> [Reply to Message](#)

Hi,

I need to know the following for some experiments I'm doing as part of a school project:

Does OpenVZ support host swapping of guest pages ? That is : if a host experiences memory pressure, can it swap out some of a guest's (guest vm) pages and use them ? I assume that if this is possible then when the guest needs to use the memory again it will be swapped back in ? Can someone confirm if OpenVz does this ?

Also, can the host change the memory allocation for a guest at runtime (while the guest is running) ?

Thanks

Arn

Subject: Re: Query on host swapping of guest pages.

Posted by [Kirill Korotaev](#) on Sun, 06 Jul 2008 18:19:19 GMT

[View Forum Message](#) <> [Reply to Message](#)

Arn wrote:

> Hi,

>

> I need to know the following for some experiments I'm doing as part of
> a school project:

>

> Does OpenVZ support host swapping of guest pages ? That is : if a host
> experiences memory pressure, can it swap out some of a guest's (guest
> vm) pages and use them ? I assume that if this is possible then when
> the guest needs to use the memory again it will be swapped back in ?
> Can someone confirm if OpenVz does this ?

yes, it does.

> Also, can the host change the memory allocation for a guest at runtime
> (while the guest is running) ?

not sure what you mean...

>

> Thanks

> Arn
>

Subject: Re: Query on host swapping of guest pages.

Posted by [Arn](#) on Mon, 07 Jul 2008 02:47:44 GMT

[View Forum Message](#) <> [Reply to Message](#)

On Sun, Jul 6, 2008 at 2:19 PM, Kirill Korotaev <dev@parallels.com> wrote:

>
>> Does OpenVZ support host swapping of guest pages ? That is : if a host
>> experiences memory pressure, can it swap out some of a guest's (guest
>> vm) pages and use them ? I assume that if this is possible then when
>> the guest needs to use the memory again it will be swapped back in ?
>> Can someone confirm if OpenVz does this ?

>
> yes, it does.

>
>> Also, can the host change the memory allocation for a guest at runtime
>> (while the guest is running) ?

>
> not sure what you mean...

Kirill, thanks for the response.

What I mean is that if we specify that a guest VM has say 512 MB of physical RAM when we are initalizing/starting the VM then can we change it later while the guest is still running. That is, can I later reduce or increase the amount of physical RAM the guest VM has without restarting it ?

Thanks
Arn

Subject: Re: Query on host swapping of guest pages.

Posted by [Kirill Korotaev](#) on Mon, 07 Jul 2008 05:15:09 GMT

[View Forum Message](#) <> [Reply to Message](#)

Arn wrote:

> On Sun, Jul 6, 2008 at 2:19 PM, Kirill Korotaev <dev@parallels.com> wrote:
>>> Does OpenVZ support host swapping of guest pages ? That is : if a host
>>> experiences memory pressure, can it swap out some of a guest's (guest
>>> vm) pages and use them ? I assume that if this is possible then when
>>> the guest needs to use the memory again it will be swapped back in ?
>>> Can someone confirm if OpenVz does this ?
>> yes, it does.

>>
>>> Also, can the host change the memory allocation for a guest at runtime
>>> (while the guest is running) ?
>> not sure what you mean...
>
> Kirill, thanks for the response.
>
> What I mean is that if we specify that a guest VM has say 512 MB of
> physical RAM when we are initializing/starting the VM then can we
> change it later while the guest is still running. That is, can I later
> reduce or increase the amount of physical RAM the guest VM has without
> restarting it ?

yes.

Kirill
