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Subject: Mainstream progress?

Posted by [Carl-Daniel Hailfinger](#) on Thu, 13 Mar 2008 02:20:42 GMT

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Hi,

the ongoing merge of OpenVZ-based lightweight virtualization into mainline Linux seems to be progressing nicely and I have a few questions about it:

- How usable will net namespaces be in 2.6.25? I'm especially interested in assigning a real hardware ethernet device to a VE.
- Will there be an OpenVZ patch or against 2.6.25?
- Do you expect net namespace/virtualization work to be completely merged in 2.6.26?
- Which OpenVZ features will not make it to mainline in the 2.6.26 timeframe?

Some of the questions above probably can't be answered without guessing, but a good guess is better than no information and I'd appreciate any status update newer than the OpenVZ blog entry from 2008-01-26.

Thanks,  
Carl-Daniel

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Subject: Re: Mainstream progress?

Posted by [kir](#) on Thu, 13 Mar 2008 12:12:12 GMT

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Pavel,

Please correct/enlarge me if there's anything missing/incorrect.

Carl-Daniel Hailfinger wrote:

- > Hi,
- >
- > the ongoing merge of OpenVZ-based lightweight virtualization into
- > mainline Linux seems to be progressing nicely and I have a few questions
- > about it:
- > - How usable will net namespaces be in 2.6.25? I'm especially interested
- > in assigning a real hardware ethernet device to a VE.
- >

I guess some network namespace stuff is NOT completed in upcoming 2.6.25 (a lot of stuff done, but not finished)

For 2.6.26, it will be more-or-less working, with just a few exceptions such as conntracks and IPv6 -- maybe.

> - Will there be an OpenVZ patch or against 2.6.25?

>

As of now we do not plan to have one. Porting to each mainstream version is too much work to do -- instead we concentrate on

- (1) merging stuff to mainstream
- (2) supporting our stable kernels
- (3) stabilizing 2.6.24 (for now)

> - Do you expect net namespace/virtualization work to be completely

> merged in 2.6.26?

>

As said before, we guess that network namespaces will be more or less useable in 2.6.26.

> - Which OpenVZ features will not make it to mainline in the 2.6.26

> timeframe?

>

A lot. Network namespaces is just one piece of a pie.

To paint in big strokes: resource management and live migration are still on our todo list.

Resource management: some stuff is in -mm kernel, need to add much more. Will work on that after finishing with net namespaces.

Live migration: this is much more far perspective, we haven't even started to discuss that seriously on containers@ list.

> Some of the questions above probably can't be answered without guessing,

> but a good guess is better than no information and I'd appreciate any

> status update newer than the OpenVZ blog entry from 2008-01-26.

>

> Thanks,

> Carl-Daniel

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Subject: Re: Mainstream progress?

Posted by [Pavel Emelianov](#) on Thu, 13 Mar 2008 13:20:35 GMT

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Kir Kolyshkin wrote:

> Pavel,

>

> Please correct/enlarge me if there's anything missing/incorrect.

>

> Carl-Daniel Hailfinger wrote:  
>> Hi,  
>>  
>> the ongoing merge of OpenVZ-based lightweight virtualization into  
>> mainline Linux seems to be progressing nicely and I have a few questions  
>> about it:  
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>> in assigning a real hardware ethernet device to a VE.  
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>  
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> such as conntracks and IPv6 -- maybe.  
>  
>> - Will there be an OpenVZ patch or against 2.6.25?  
>>  
>  
> As of now we do not plan to have one. Porting to each mainstream version  
> is too much work to do -- instead we concentrate on  
> (1) merging stuff to mainstream  
> (2) supporting our stable kernels  
> (3) stabilizing 2.6.24 (for now)

2.6.26 will be the next kernel we will port on.

>> - Do you expect net namespace/virtualization work to be completely  
>> merged in 2.6.26?  
>>  
>  
> As said before, we guess that network namespaces will be more or less  
> useable in 2.6.26.  
>  
>> - Which OpenVZ features will not make it to mainline in the 2.6.26  
>> timeframe?  
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> A lot. Network namespaces is just one piece of a pie.  
>  
> To paint in big strokes: resource management and live migration are  
> still on our todo list.  
>  
> Resource management: some stuff is in -mm kernel, need to add much more.  
> Will work on that after finishing with net namespaces.

Memory management will change with 2.6.26. API will be kept, but  
we'll have a per-ve swapout and (probably) drop privvmpages accounting.

> Live migration: this is much more far perspective, we haven't even  
> started to discuss that seriously on containers@ list.  
>> Some of the questions above probably can't be answered without guessing,  
>> but a good guess is better than no information and I'd appreciate any  
>> status update newer than the OpenVZ blog entry from 2008-01-26.  
>>  
>> Thanks,  
>> Carl-Daniel

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Subject: Re: Mainstream progress?  
Posted by [Carl-Daniel Hailfinger](#) on Wed, 04 Jun 2008 13:32:20 GMT  
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On 13.03.2008 14:20, Pavel Emelyanov wrote:

> Kir Kolyshkin wrote:

>

>> Pavel,

>>

>> Please correct/enlarge me if there's anything missing/incorrect.

>>

>> Carl-Daniel Hailfinger wrote:

>>

>>> Hi,

>>>

>>> the ongoing merge of OpenVZ-based lightweight virtualization into  
>>> mainline Linux seems to be progressing nicely and I have a few questions  
>>> about it:

>>> - How usable will net namespaces be in 2.6.25? I'm especially interested  
>>> in assigning a real hardware ethernet device to a VE.

>>>

>>>

>> I guess some network namespace stuff is NOT completed in upcoming 2.6.25  
>> (a lot of stuff done, but not finished)

>>

>> For 2.6.26, it will be more-or-less working, with just a few exceptions  
>> such as conntracks and IPv6 -- maybe.

>>

Do you have an overview of the current 2.6.26 state?

>>> - Will there be an OpenVZ patch or against 2.6.25?

>>>

>>>

>> As of now we do not plan to have one. Porting to each mainstream version  
>> is too much work to do -- instead we concentrate on

>> (1) merging stuff to mainstream  
>> (2) supporting our stable kernels  
>> (3) stabilizing 2.6.24 (for now)  
>>  
>  
> 2.6.26 will be the next kernel we will port on.  
>

Yes, I saw the new tree on [git.openvz.org](http://git.openvz.org). I hope to use a 2.6.26-based OpenVZ kernel in the near future when 2.6.26 is officially released.

>>> - Do you expect net namespace/virtualization work to be completely  
>>> merged in 2.6.26?  
>>>  
>>>  
>> As said before, we guess that network namespaces will be more or less  
>> useable in 2.6.26.  
>>

It would be cool if you can give some pointers on how to use the merged part of network namespaces (with OpenVZ tools or any other tool).

>>> - Which OpenVZ features will not make it to mainline in the 2.6.26  
>>> timeframe?  
>>>  
>>>  
>> A lot. Network namespaces is just one piece of a pie.  
>>  
>> To paint in big strokes: resource management and live migration are  
>> still on our todo list.  
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>> Resource management: some stuff is in -mm kernel, need to add much more.  
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>  
> Memory management will change with 2.6.26. API will be kept, but  
> we'll have a per-ve swapout and (probably) drop privvmpages accounting.  
>  
>  
>> Live migration: this is much more far perspective, we haven't even  
>> started to discuss that seriously on containers@ list.  
>>

That's unfortunate, but I can understand concentrating on a few features to get them merged completely.

Regards,  
Carl-Daniel

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