
Subject: Mainstream progress?

Posted by [Carl-Daniel Hailfinge](#) 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

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 contracks 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

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:

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

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>

> 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 contracks 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?

>>

>

> 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

Subject: Re: Mainstream progress?

Posted by [Carl-Daniel Hailfinge](#) 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 contracks 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. 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.
>>
>> 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.
>>

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

Regards,
Carl-Daniel
