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Subject: Re: [PATCH 0/9] namespaces: Introduction  
Posted by [ebiederm](#) on Fri, 19 May 2006 16:27:32 GMT  
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Andrew Morton <akpm@osdl.org> writes:

> Herbert Poetzl <herbert@13thfloor.at> wrote:  
>>  
>> let me  
>> give a simple example here:  
>  
> Examples are useful.  
>  
>> "pid virtualization"  
>>  
>> - Linux-VServer doesn't really need that right now.  
>> we are perfectly fine with "pid isolation" here, we  
>> only "virtualize" the init pid to make pstree happy  
>>  
>> - Snapshot/Restart and Migration will require "full"  
>> pid virtualization (that's where Eric and OpenVZ  
>> are heading towards)  
>  
> snapshot/restart/migration worry me. If they require complete  
> serialisation of complex kernel data structures then we have a problem,  
> because it means that any time anyone changes such a structure they need to  
> update (and test) the serialisation.

There is a strict limit to what is user visible, and if it isn't user visible  
we will never need it in a checkpoint. So internal implementation details  
should not matter.

> This may be a show-stopper, in which case maybe we only need to virtualise  
> pid #1.

Except we do need something for pid isolation, and a pid namespace is  
quite possibly the light weight solution. If you can't see the pid it is  
clearly isolated from you.

> Anyway. Thanks, guys. It sound like most of this work will be nicely  
> separable so we can think about each bit as it comes along.

Yes, and there are enough issues it is significant.

Eric

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