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Subject: Re: namespaces compatibility list  
Posted by [dev](#) on Tue, 06 Nov 2007 12:33:15 GMT  
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imho very good idea and we'll have more and more docs there...  
(the only issue I see - it would be nice to have cgroups docs in the same place,  
though cgroups are not about namespaces directly.)

Acked-By: Kirill Korotaev <dev@sw.ru>

Pavel Emelyanov wrote:

> Hi guys!  
>  
> As you might have seen, recently there was some spontaneous  
> discussion about the namespaces-working-together problems.  
>  
> Ted T'so proposed to create some document that describes what  
> problems user may have when he/she creates some new namespace,  
> but keeps others shared. I like this idea, so here's the draft  
> with the problems I currently have in mind and can describe  
> somewhat audibly - the "namespaces compatibility list".  
>  
> The Documentation/namespaces/ dir is about to contain more  
> docs about the namespaces stuff (e.g. I'm going to prepare  
> a doc about the pid namespaces, maybe Serge will want to  
> write something about the user namespaces development, Eric  
> may want to put some notes about the netns API and so on),  
> but currently there will be only one file.  
>  
> What would you say about it?  
>  
> Signed-off-by: Pavel Emelyanov <xemul@openvz.org>  
>  
> ---  
>  
> diff --git a/Documentation/namespaces/compatibility-list.txt  
b/Documentation/namespaces/compatibility-list.txt  
> new file mode 100644  
> index 0000000..4be4a3c  
> --- /dev/null  
> +++ b/Documentation/namespaces/compatibility-list.txt  
> @@ -0,0 +1,32 @@  
> + Namespaces compatibility list  
> +  
> +This document contains the information about the problems user  
> +may have when creating tasks living in different namespaces.  
> +

> +Here's the summary. This matrix shows the known problems, that  
> +occur when tasks share some namespace (the columns) while living  
> +in different other namespaces (the rows):

> +

> + UTS IPC VFS PID User Net

> +UTS

> +IPC 1

> +VFS

> +PID 1 1

> +User 2

> +Net

> +

> +1. Both the IPC and the PID namespaces provide IDs to address

> + object inside the kernel. E.g. semaphore with ipcid or

> + process group with pid.

> +

> + In both cases, tasks shouldn't try telling this id to some

> + other task living in different namespace via shared filesystem

> + or IPC shmem/message. The fact is that this ID is only valid

> + within the namespace it was obtained in and may refer to some

> + other object in another namespace.

> +

> +2. Intentionally, two equal user ids in different user namespaces

> + should not be equal from the VFS point of view. In other

> + words, user 10 in one user namespace shouldn't have the same

> + access permissions to files, belonging to user 10 in another

> + namespace. But currently this is not so.

>

>

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> Containers mailing list

> Containers@lists.linux-foundation.org

> <https://lists.linux-foundation.org/mailman/listinfo/containers>

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