
Subject: Re: namespaces compatibility list

Posted by [Cedric Le Goater](#) on Tue, 06 Nov 2007 16:46:09 GMT

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Pavel Emelyanov wrote:

> Cedric Le Goater wrote:

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>>>> 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".

>>>> that compatibility list could be encoded in the way we check

>>>> the clone flags in copy_process() and unshare(). It would

>>>> also be good to have it as a comment somewhere in kernel/fork.c

>>> How can we insure, that a new task will not share the files

>>> with its parent to address the PID namespaces vs VFS namespaces

>>> interaction? There's no way to do it. We can only keep them in

>>> one IPC namespace...

>> ? I'm not sure I understand you.

>

> As far as I understand, you propose the check for the clone flags

> in the copy_process()/sys_unshare() and return -EINVAL for the cases

> we consider to be unsafe. E.g. when a user wants to clone new pid

> namespace, he must clone the ipc namespace as well.

yes.

> But my point is that this check is not enough - user may kill himself

> by cloning a pid namespace and sharing the pids via the filesystem

> (like with the example with futexes) and there's no way to check for

> this situation in the copy_process()/sys_unshare.

right. I think we can address Ulrich concerns first because we have a solution for it (which looks like unsharing all namespaces at once, here comes back the container object story :)

> I mean that this list cannot be encoded. But we can warn user, that

> some stuff will stop working if he violates some rules.

and then do that for the futexes, which are a real difficult case.

thanks,

C.

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