

> Stanislav Kinsbursky<skinsbursky@parallels.com> writes:
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>>> Stanislav Kinsbursky<skinsbursky@parallels.com> writes:
>>>
>>>> These routines are required for making SUNRPC sysctl's per network namespace
>>>> context.
>>>
>>> Why does sunrpc require it's own sysctl root? You should be able to use
>>> the generic per network namespace root and call it good.
>>>
>>> What makes register_net_sysctl_table and register_net_sysctl_ro_table
>>> unsuitable for sunrpc. I skimmed through your patches and I haven't
>>> seen anything obvious.
>>>
>>> Eric
>>>
>>
>> Hello, Eric. Sorry for the lack of information.
>> I was considering two ways how to make these sysctl per net ns:
>>
>> 1) Use register_net_sysctl_table and register_net_sysctl_ro_table as you
>> mentioned. This was easy and cheap, but also means, than all user-space
>> programs, tuning SUNRPC will be broken (since all sysctl currently located
>> in"/proc/sys/sunrpc/").
>>
>> Nope. That is a misunderstanding. register_net_sysctl_table works for
>> anything under /proc/sys.
>>
>> 2) Export sysctl root creation routines and make per-net SUNRPC sysctl
>> root. This approach allows to make any part of sysctl tree per namespace context
>> and thus leave user-space stuff unchanged.
>>
>> BTW, NFS and LockD also have it's sysctls ("/proc/sys/fs/nfs/").
>> And also because of them I've decided, that it would be better to export SYSCTL
>> root creation routines instead of breaking compatibility for all NFS layers by
>> moving all sysctl under /proc/sys/net/ directory.
>>
>> Do you feel that it was a bad decision?
>>
>> I think it was a misinformed decision.
>>
>> I fully support not breaking userspace by moving where the sysctls files

> are. If something sounds like I am suggesting moving sysctl files there
 > is a miscommunication somewhere.
 >
 > The concept of a sysctl root as I had envisioned it and essentially as it
 > is implemented was a per namespace sysctl tree. Those sysctl trees are
 > then unioned together when presented to user space. There should only
 > be one root per namespace.
 >
 > In practice what this means is that register_net_sysctl_table should
 > work for any sysctl file anywhere under /proc/sys. I think
 > register_net_sysctl_table is the right solution for your problem. The
 > only possible caveat I can think of is you might hit AI's performance
 > optimizations and need to create a common empty directory first with
 > register_sysctl_paths.
 >
 >

Sorry, but I forgot to mention one more important goal I would like to achieve:
 I want to manage sysctl's variables in context of mount owner, but not viewer one.
 IOW imagine, that we have one two network namespaces: "A" and "B". Both of them
 have it's own net sysctl's root. And we have per-net sysctl "/proc/sys/var".
 And for ns "A" variable was set to 0, and for "B" - to 1.
 And B's "/proc/sys/var" is accessible from "A" namespace
 ("/chroot_path/proc/sys/var" for example).
 With this configuration I want to read "1" from both namespaces:
 owner "B" (/proc/sys/var) and "A" ("/chroot_path/proc/sys/var").
 Looks like simple using of register_net_sysctl_table doesn't allow me this,
 because current net ns is used. And to achieve this goal I need my own sysctl
 set for SUNRPC like it was done for network namespaces.

>
 > That said since I am in the process of rewriting things some of this
 > may change a little bit, but hopefully not in ways that immediately
 > effect the users of register_sysctl_table.
 >
 > Don't use register_net_sysctl_ro_table. I think what the implementors
 > actually wanted was register_net_sysctl_table(&init_net, ...) and didn't
 > know it.
 >
 > Don't put subdirectories in your sysctl tables. Use a ctl_path to
 > specify the entire directory where the files should show up. Generally
 > the code is easier to read in that form, and the code is simpler to deal
 > with if we don't have to worry about directories.
 >
 > Don't play with the sysctl roots. It is my intention to completely kill
 > them off and replace them by moving the per net sysctl tree under

> /proc/<pid>/sys/. Leaving behind symlinks in /proc/sys/net and I guess
> ultimately in /proc/sys/sunrpc/ and /proc/sys/fs/nfs... Which actually
> seems to better describe your mental model.
>

I'm afraid, that this approach this not allow me to achieve the goal, mentioned
above, because current->nsproxy->net_ns will be used during lookup.
Or maybe I misunderstanding here?

> Thank you for mentioning /proc/sys/fs/nfs. That is a case I hadn't
> thought about. In thinking about it I see some deficiencies in my
> rewrite that I need to correct before I push that code.
>

Was glad to be usefull.

> Eric

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Best regards,
Stanislav Kinsbursky
