Subject: Re: [PATCH] namespaces: fix exit race by splitting exit Posted by Andrew Morton on Fri, 26 Jan 2007 06:30:56 GMT

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On Thu, 25 Jan 2007 23:26:59 -0600 "Serge E. Hallyn" <serue@us.ibm.com> wrote:

- > Fix exit race by splitting the nsproxy putting into two pieces.
- > First piece reduces the nsproxy refcount. If we dropped the last
- > reference, then it puts the mnt_ns, and returns the nsproxy as a
- > hint to the caller. Else it returns NULL. The second piece of
- > exiting task namespaces sets tsk->nsproxy to NULL, and drops the
- > references to other namespaces and frees the nsproxy only if an
- > nsproxy was passed in.

>

- > A little awkward and should probably be reworked, but hopefully
- > it fixes the NFS oops.

I'm a bit worried about jamming something like this into 2.6.20. Could the usual culprits please review this carefully with some urgency?

And Daniel, if you can find time to runtime test it please?

Containers mailing list Containers@lists.osdl.org https://lists.osdl.org/mailman/listinfo/containers

Subject: Re: [PATCH] namespaces: fix exit race by splitting exit Posted by Herbert Poetzl on Tue, 30 Jan 2007 02:42:28 GMT View Forum Message <> Reply to Message

On Thu, Jan 25, 2007 at 10:30:56PM -0800, Andrew Morton wrote:

- > On Thu, 25 Jan 2007 23:26:59 -0600
- > "Serge E. Hallyn" <serue@us.ibm.com> wrote:

>

- >> Fix exit race by splitting the nsproxy putting into two pieces.
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- > some urgency?

okay, after integrating this into two Linux-VServer branches and some testing, I can confirm that it _seems_ to fix the nfs and related issues, but still, I do not like it:)

here my issues with this approach:

- the code is quite hard to read and can easily lead to unexpected issues when spaces are manipulated
- it breaks the basic get/put refcounting for nsproxy references outside the task struct i.e. we had to add a vs_put_nsproxy() which does what the put_nsproxy() did before, to keep and handle a reference to the nsproxy from the context structure
- the following scenario might become a problem for future spaces (especially the pid space?)

Α В

```
exit_task_namespaces_early()
 exit task namespaces early()
 exit notify()
 exit_task_namespaces()
exit_notify()
exit_task_namespaces()
```

note: I still consider it the best available fix for this issues, especially as 2.6.20 is in a late rc stage ... but IMHO the nfs threads should be modified to handle the nsproxy disposal properly

> And Daniel, if you can find time to runtime test it please?

he did, looks like it works fine with vanilla too (even when stressing the described cornercase)

best. Herbert