Subject: Re: [RFC][PATCH] Do not set /proc inode->pid for non-pid-related inodes Posted by Herbert Poetzl on Fri, 23 Mar 2007 01:02:03 GMT

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On Tue, Mar 20, 2007 at 11:00:57AM -0500, Serge E. Hallyn wrote:
> Quoting Eric W. Biederman (ebiederm@xmission.com):
> > "Serge E. Hallyn" <serue@us.ibm.com> writes:
> >
>>> Quoting Eric W. Biederman (ebiederm@xmission.com):
>>> Dave Hansen <hansendc@us.ibm.com> writes:
>>>> On Mon, 2007-03-19 at 20:04 -0600, Eric W. Biederman wrote:
> > >> I would also
>>>>> like to see how we perform the appropriate lookups by pid
>>> >> namespace.
>>>>
>>>> What do you mean?
>>> proc pid readdir ... next tgid().
>> next_tgid() is simple enough - we can always use current->pid_ns
>>> to find the next pidnr.
>> No. We cannot use current->pid_ns. We must get it from the mount or
> > something in the mount.
>
> Actually I think Dave has it coming from superblock data.
>> Using current to set the default pid is to mount is fine. But if
>> we use current to select our files we have a moderately serious
> > problem.
> >
>>> The only hitch, as mentioned earlier, is how do we find the first
>>> task. Currently task 1 is statically stored as the first inode,
>> and as Dave mentioned we can't do that now, because we dont' know
>> of any one task which will outlive the pid_ns.
>> Outlive is the wrong concept. Ideally we want something that will
> > live as long as there are processes in the pid ns.
> And there is no such thing.
> > As I thought about this some more there are some problems for
>> holding a reference to a pid_ns for a long period of time. Currently
> > struct_pid is designed so you can hang onto it forever. struct
> > pid_namespace isn't. So we have some very interesting semantic
> > questions of what happens when the pid namespace exits.
> >
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> > Since we distinguish mounts by their pid namespace this looks like
> > something we need to sort through.
> Yup.
>>> While I'm not categorically opposed to supporting things like
>>> that it but it is something for which we need to tread very
>>> carefully because it is an extension of current semantics. I
>>> can't think of any weird semantics right now but for something
>>> user visible we will have to support indefinitely I don't see a
>>> reason to rush into it either.
> > >
>> Except that unless we mandate that pid1 in any namespace can't
>> exit, and put that feature off until later, we can't not address
>>> it.
> >
>> What if we mandate that pid1 is the last process to exit?
> I think people have complained about that in the past for application
> containers, but I really don't see where it hurts anything.
> Cedric, Herbert, did one of you think it would be bad?
yes, we (Linux-VServer) consider that bad, because it
would not allow to have lightweight containers which
do not have a real init process ...
e.g. think: 'quest running sshd only'
thanks,
Herbert
>> Problems actually only show up in this context if other pids live
> > substantially longer than pid1.
> >
>>> True but we are getting close. And it is about time we worked up
>>> patches for that so our conversations can become less theoretical.
>>>
>> Yes I really hope a patchset goes out today.
>> Sounds good. I expect it will take a couple of rounds of review,
> > before we have all of the little things nailed down but starting that
> > process is a hopeful sign.
>
> I'm hoping some of the earlier patches can be acked this time so we can
> get to discussing the more interesting parts :)
> But I'm afraid it might be no earlier than tomorrow that the patches go
```

- > out. Will try.
- >
- > thanks,
- > -serge
- >_____
- > Containers mailing list
- > Containers@lists.linux-foundation.org
- > https://lists.linux-foundation.org/mailman/listinfo/containers

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