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Subject: Re: [PATCH 2/13] Small preparations for namespaces

Posted by [serue](#) on Fri, 25 May 2007 13:55:59 GMT

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Quoting Pavel Emelianov (xemul@openvz.org):

> Serge E. Hallyn wrote:

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> > > > Quoting Pavel Emelianov (xemul@openvz.org):

> > > > This includes #ifdefs in get/put\_pid\_ns and rewriting

> > > > the child\_reaper() function to the more logical view.

> > > >

> > > > This doesn't fit logically into any other patch so

> > > > I decided to make it separate.

> > > >

> > > > Signed-off-by: Pavel Emelianov <xemul@openvz.org>

> > > >

> > > > ---

> > > >

> > > > diff --git a/include/linux/pid\_namespace.h b/include/linux/pid\_namespace.h

> > > > index 169c6c2..7af7191 100644

> > > > --- a/include/linux/pid\_namespace.h

> > > > +++ b/include/linux/pid\_namespace.h

> > > > @@ -26,7 +26,9 @@ extern struct pid\_namespace init\_pid\_ns;

> > > >

> > > > static inline void get\_pid\_ns(struct pid\_namespace \*ns)

> > > > {

> > > > #ifdef CONFIG\_PID\_NS

> > > > kref\_get(&ns->kref);

> > > > #endif

> > > > }

> > > >

> > > > extern struct pid\_namespace \*copy\_pid\_ns(int flags, struct pid\_namespace \*ns);

> > > > @@ -34,12 +36,15 @@ extern void free\_pid\_ns(struct kref \*kre

> > > >

> > > > static inline void put\_pid\_ns(struct pid\_namespace \*ns)

> > > > {

> > > > #ifdef CONFIG\_PID\_NS

> > > > kref\_put(&ns->kref, free\_pid\_ns);

> > > > #endif

> > > > }

> > > >

> > > > static inline struct task\_struct \*child\_reaper(struct task\_struct \*tsk)

> > > > {

> > > > - return init\_pid\_ns.child\_reaper;

> > > > + BUG\_ON(tsk != current);

> > > > + return tsk->nsproxy->pid\_ns->child\_reaper;

> > > > }

> >>>>  
> >>>> #endif /\* \_LINUX\_PID\_NS\_H \*/  
> >>> This can't be bisect-safe, right? You can't just use  
> >>> tsk->nsproxy->pid\_ns, as you've pointed out yourself.  
> >> I can :) See - I have a proving BUG\_ON() here.  
> >  
> > I didn't know BUG\_ON()'s actually warded off bugs :)  
>  
> It does not, but it says to code reader that this call  
> expects something special. In this case - tsk is expected  
> to be current always. And it is.

I don't think that's sufficient.

It's been awhile so I'm fuzzy on the details, but I think we only fixed the race by always returning init\_pid\_ns instead of tsk->nsproxy\_pid\_ns, and tsk being current is not safe.

> > You've tested this with the infamous NFS testcase?  
>  
> What testcase do you mean?

<http://lkml.org/lkml/2007/1/17/65>

> > I don't see \*why\* it would work for you, but if you claim it does, I  
> > guess you'd know better than I :)  
>  
> I don't get you here. I've checked that the task passed to  
> child\_reaper is current always. This BUG\_ON prevents later  
> code from passing arbitrary task to it.

I don't think that's enough.

thanks,  
-serge

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