Subject: Re: [PATCH] ptrace: it is fun to strace /sbin/init Posted by serue on Tue, 25 Mar 2008 18:06:11 GMT

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```
Quoting Stephen Smalley (sds@tycho.nsa.gov):
> On Tue, 2008-03-25 at 08:40 -0500, Serge E. Hallyn wrote:
> > Quoting Stephen Smalley (sds@tycho.nsa.gov):
> > On Tue, 2008-03-25 at 02:04 +0300, Oleg Nesterov wrote:
>>> On 03/24, Pavel Machek wrote:
>>>>
>>> > /sbin/init is important, but there are other important (and sometimes
>>>> much more important) services. Why it is so special so that we can't
>>>> > debug/strace it?
>>>>
>>>> Maybe. Let's kill /sbin/init protection in 2.6.26. But making it
>>>> optional is wrong.
>>>>
>>> You are right, the boot parameter is silly. How about sysctl?
>>> Stephen, do you see any security problems if we make /sbin/init
>>> ptraceable by default?
>> Not an issue for SELinux (we apply an orthogonal check based on security
>> context, so we can already block ptrace of init independent of whether
>> root/CAP_SYS_PTRACE can do it). I'm not sure though as to whether
>> people using capabilities have ever relied on this special protection of
>>> init (e.g. custom init spawns children with lesser capabilities and
>>> relies on the fact that they cannot ptrace init to effectively re-gain
>>> those capabilities, even if they possess CAP SYS PTRACE).
> >
>> Still thinking it through, but it seems like special casing init isn't
> > useful. There are likely to be other tasks with all capabilities
> > set which the malicious task could just as well ptrace to do his
> > mischief, right?
> Depends on the bounding set. Didn't it used to be the case that only
> init had CAP_SETPCAP (until the meaning of it was changed by the
> filesystem capability support)?
Not quite. CAP_SETPCAP was taken out of everyone's bounding set. But
```

Not quite. CAP_SETPCAP was taken out of everyone's bounding set. But kernel/sysctl.c allowed only init to add capabilities to the bounding set. (Whereas CAP_SYS_MODULE was sufficient to remove them).

- > Might want to double check with e.g. the vservers folks that they
- > weren't relying in any way on special handling of init.

Herbert, Pavel, do you have objections to allowing ptrace of init? (I believe Eric has already Acked the idea iirc?)

thanks,

Containers mailing list Containers@lists.linux-foundation.org https://lists.linux-foundation.org/mailman/listinfo/containers

Subject: Re: [PATCH] ptrace: it is fun to strace /sbin/init Posted by Herbert Poetzl on Tue, 25 Mar 2008 19:07:43 GMT View Forum Message <> Reply to Message

```
On Tue, Mar 25, 2008 at 01:06:11PM -0500, Serge E. Hallyn wrote:
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> >
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>

- > > Might want to double check with e.g. the vservers folks that they
- >> weren't relying in any way on special handling of init.

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- > Herbert, Pavel, do you have objections to allowing ptrace of init?
- > (I believe Eric has already Acked the idea iirc?)

inside a guest, by default no (i.e. there simply is no capability for that), on the host the behaviour is unmodified .. note that there are guests without init where the blend through init is protected in a special way

HTH, Herbert

- > thanks,
- > -serge

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Subject: Re: [PATCH] ptrace: it is fun to strace /sbin/init Posted by Pavel Machek on Tue, 25 Mar 2008 21:55:55 GMT

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Hi!

- >> Might want to double check with e.g. the vservers folks that they
- > > weren't relying in any way on special handling of init.

_

- > Herbert, Pavel, do you have objections to allowing ptrace of init?
- > (I believe Eric has already Acked the idea iirc?)

No problem from me...

(..but do not introduce command line option or sysctl. It is not worth it).

Pavel

--

(english) http://www.livejournal.com/~pavelmachek (cesky, pictures) http://atrey.karlin.mff.cuni.cz/~pavel/picture/horses/blog.html pomozte zachranit klanovicky les: http://www.ujezdskystrom.info/

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Subject: Re: [PATCH] ptrace: it is fun to strace /sbin/init Posted by Andrew Morgan on Wed, 26 Mar 2008 15:31:11 GMT View Forum Message <> Reply to Message

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

FWIW. I completely concur.

Pavel Machek wrote:

|> Herbert, Pavel, do you have objections to allowing ptrace of init?

|> (I believe Eric has already Acked the idea iirc?)

No problem from me...

(..but do not introduce command line option or sysctl. It is not worth it).

Cheers

Andrew

-----BEGIN PGP SIGNATURE-----Version: GnuPG v1.4.7 (Darwin)

Comment: Using GnuPG with Mozilla - http://enigmail.mozdev.org

iD8DBQFH6mw8+bHCR3gb8jsRAsKjAJ40JnoyrqGzgIZPgz5gv9uqeeiZ1wCdFKSvsnEU/yiVdWQ4cGSwbU3A8Hg=

=xArK

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Subject: Re: [PATCH] ptrace: it is fun to strace /sbin/init

Posted by Pavel Emelianov on Wed, 26 Mar 2008 15:47:11 GMT

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[snip]

- > Herbert, Pavel, do you have objections to allowing ptrace of init?
- > (I believe Eric has already Acked the idea iirc?)

I 100% agree with the patch.

And I always say this to Oleg about all his patches:)

- > thanks,
- > -serge

>

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