Subject: Re: [patch 1/2] [RFC] Simple tamper-proof device filesystem.
Posted by serge on Tue, 18 Dec 2007 02:53:33 GMT
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Quoting Tetsuo Handa (penguin-kernel@i-love.sakura.ne.jp):
> Hello.
>
> Serge E. Hallyn wrote:
> > But your requirements are to ensure that an application accessing a
> > device at a well-known location get what it expect.
>
> Yes. That's the purpose of this filesystem.
>
>
> > So then the main quesiton is still the one I think Al had asked - what
> > keeps a rogue CAP_SYS_MOUNT process from doing
> > mount --bind /dev/hda1 /dev/null ?
>
> Excuse me, but I guess you meant "mount --bind /dev/ /root/" or something
> because mount operation requires directories.

Nope, try

```
touch /root/hda1
ls -l /root/hda1
mount --bind /dev/hda1 /root/hda1
ls -l /root/hda1
```

But I see tomoyo prevents that

> MAC can prevent a rogue CAP_SYS_MOUNT process from doing
> "mount --bind /dev/ /root/".
> For example, regarding TOMOYO Linux, you need to give
> "allow_mount /dev/ /root/ --bind 0" permission
> to permit "mount --bind /dev/ /root/" request.

Ok, that answers my question. Thanks.

(I won't go into "who gets to say allow_mount" :)

> Did you mean "ln -s /dev/hda1 /dev/null" or "ln /dev/hda1 /dev/null"?
> No problem. MAC can prevent such requests too.

Then it sounds like this filesystem is something Tomoyo can use.

thanks,
-serge

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