
Subject: Re: [PATCH] Fix UTS corruption during clone(CLONE_NEWUTS)

Posted by [serge](#) on Fri, 14 Sep 2007 20:02:15 GMT

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Quoting Alexey Dobriyan (adobriyan@sw.ru):

> struct utsname is copied from master one without any exclusion.

>

> Here is sample output from one proggie doing

>

> sethostname("aaaaaaaaaaaaaaaaaaaaaaaaaaaaa");

> sethostname("bbbbbbbbbbbbbbbbbbbbbbbbbbbbbb");

>

> and another

>

> clone(., CLONE_NEWUTS, ...)

> uname()

>

>

> hostname = 'aaaaaaaaaaaaaaaaaaaaaaaaabbbb'

> hostname = 'bbbaaaaaaaaaaaaaaaaaaaaaaaaa'

> hostname = 'aaaaaaaabbbbbbbbbbbbbbbbbbbb'

> hostname = 'aaaaaaaaaaaaaaaaaaaaaaaaabbbb'

> hostname = 'aaaaaaaaaaaaaaaaaaaaaaaaabb'

> hostname = 'aaabbbbbbbbbbbbbbbbbbbbbbbb'

> hostname = 'bbbbbbbbbbbbbbbbbaaaaaaaaaaa'

>

> Hostname is sometimes corrupted.

>

> Yes, even _the_ simplest namespace activity had bug in it. :-(

>

> Signed-off-by: Alexey Dobriyan <adobriyan@sw.ru>

picking my jaw up off the floor just long enough to type

Signed-off-by: Serge Hallyn <serue@us.ibm.com>

and limp away in shame

thanks Alexey,

-serge

> ---

>

> kernel/utsname.c | 2 ++

> 1 file changed, 2 insertions(+)

>

> --- a/kernel/utsname.c

> +++ b/kernel/utsname.c

```
> @@ -28,7 +28,9 @@ static struct uts_namespace *clone_uts_ns(struct uts_namespace
*old_ns)
> if (!ns)
> return ERR_PTR(-ENOMEM);
>
> + down_read(&uts_sem);
> memcpy(&ns->name, &old_ns->name, sizeof(ns->name));
> + up_read(&uts_sem);
> kref_init(&ns->kref);
> return ns;
> }
>
> -
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```
