
Subject: [PATCH] utsns: Restore proper namespace handling.
Posted by [ebiederm](#) on Fri, 23 Nov 2007 19:25:29 GMT
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When CONFIG_UTS_NS was removed it seems that we also deleted the code for handling sysctls in the other then the initial uts namespace. This patch restores that code.

Signed-off-by: Eric W. Biederman <ebiederm@xmission.com>

kernel/utsname_sysctl.c | 2 ++
1 files changed, 2 insertions(+), 0 deletions(-)

diff --git a/kernel/utsname_sysctl.c b/kernel/utsname_sysctl.c
index c76c064..71f58c3 100644

--- a/kernel/utsname_sysctl.c

+++ b/kernel/utsname_sysctl.c

@@ -18,6 +18,8 @@

static void *get_uts(ctl_table *table, int write)

{

char *which = table->data;

+ struct uts_namespace *uts_ns = current->nsproxy->uts_ns;

+ which = (which - (char *)&init_uts_ns) + (char *)uts_ns;

if (!write)

down_read(&uts_sem);

--

1.5.3.rc6.17.g1911

Containers mailing list

Containers@lists.linux-foundation.org

<https://lists.linux-foundation.org/mailman/listinfo/containers>

Subject: Re: [PATCH] utsns: Restore proper namespace handling.
Posted by [serue](#) on Mon, 26 Nov 2007 15:19:17 GMT
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Quoting Eric W. Biederman (ebiederm@xmission.com):

>

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> the code for handling sysctls in the other then the initial

> uts namespace. This patch restores that code.

>

> Signed-off-by: Eric W. Biederman <ebiederm@xmission.com>

Thanks, Eric.

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

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> +++ b/kernel/utsname_sysctl.c
> @@ -18,6 +18,8 @@
> static void *get_uts(ctl_table *table, int write)
> {
>     char *which = table->data;
> + struct uts_namespace *uts_ns = current->nsproxy->uts_ns;
> + which = (which - (char *)&init_uts_ns) + (char *)uts_ns;
>
>     if (!write)
>         down_read(&uts_sem);
> --
> 1.5.3.rc6.17.g1911
>
> _____
> Containers mailing list
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Subject: Re: [PATCH] utsns: Restore proper namespace handling.

Posted by [akpm](#) on Tue, 27 Nov 2007 06:55:17 GMT

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On Mon, 26 Nov 2007 09:19:17 -0600 "Serge E. Hallyn" <serue@us.ibm.com> wrote:

```
> Quoting Eric W. Biederman (ebiederm@xmission.com):
> >
> > When CONFIG_UTS_NS was removed it seems that we also deleted
> > the code for handling sysctls in the other then the initial
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> >
> > Signed-off-by: Eric W. Biederman <ebiederm@xmission.com>
>
> Thanks, Eric.
```

```

>
> Acked-by: Serge Hallyn <serue@us.ibm.com>
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> > @@ -18,6 +18,8 @@
> > static void *get_uts(ctl_table *table, int write)
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> > char *which = table->data;
> > + struct uts_namespace *uts_ns = current->nsproxy->uts_ns;
> > + which = (which - (char *)&init_uts_ns) + (char *)uts_ns;
> >
> > if (!write)
> > down_read(&uts_sem);

```

I already have a (more codingstylely attractive) version of this from Pavel, for which I shall steal your ack.

```

--- a/kernel/utsname_sysctl.c~isolate-the-uts-namespaces-domainname-and-hostname-back
+++ a/kernel/utsname_sysctl.c
@@ -18,6 +18,10 @@
static void *get_uts(ctl_table *table, int write)
{
    char *which = table->data;
+ struct uts_namespace *uts_ns;
+
+ uts_ns = current->nsproxy->uts_ns;
+ which = (which - (char *)&init_uts_ns) + (char *)uts_ns;

    if (!write)
        down_read(&uts_sem);
—

```

Those pointer tricksies are revolting. What's going on in there?

Containers mailing list
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Subject: Re: [PATCH] utsns: Restore proper namespace handling.
Posted by [ebiederm](#) on Tue, 27 Nov 2007 09:20:01 GMT
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Andrew Morton <akpm@linux-foundation.org> writes:

> I already have a (more codingstylely attractive) version of this from
> Pavel, for which I shall steal your ack.

Perfectly fine. I overlooked that one when I generated this patch
the first time (Oops). Let's just get this bug fixed.

Eric

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<https://lists.linux-foundation.org/mailman/listinfo/containers>

Subject: Re: [PATCH] utsns: Restore proper namespace handling.
Posted by [serue](#) on Tue, 27 Nov 2007 16:28:32 GMT
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Quoting Andrew Morton (akpm@linux-foundation.org):
> On Mon, 26 Nov 2007 09:19:17 -0600 "Serge E. Hallyn" <serue@us.ibm.com> wrote:
>
> > Quoting Eric W. Biederman (ebiederm@xmission.com):
> > >
> > > When CONFIG_UTS_NS was removed it seems that we also deleted
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> > > Signed-off-by: Eric W. Biederman <ebiederm@xmission.com>
> >
> > Thanks, Eric.
> >
> > Acked-by: Serge Hallyn <serue@us.ibm.com>
> >
> > > ---
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> > > --- a/kernel/utsname_sysctl.c
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> > > static void *get_uts(ctl_table *table, int write)
> > > {
> > > char *which = table->data;
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> > > + which = (which - (char *)&init_uts_ns) + (char *)uts_ns;
> > >
> > > if (!write)
> > > down_read(&uts_sem);
>
> I already have a (more codingstylely attractive) version of this from
> Pavel, for which I shall steal your ack.
```

Cool, thanks.

```
> --- a/kernel/utsname_sysctl.c~isolate-the-uts-namespaces-domainname-and-hostname-back
> +++ a/kernel/utsname_sysctl.c
> @@ -18,6 +18,10 @@
> static void *get_uts(ctl_table *table, int write)
> {
> char *which = table->data;
> + struct uts_namespace *uts_ns;
> +
> + uts_ns = current->nsproxy->uts_ns;
> + which = (which - (char *)&init_uts_ns) + (char *)uts_ns;
>
> if (!write)
> down_read(&uts_sem);
> _
>
>
> Those pointer tricksies are revolting. What's going on in there?
```

This is true. There is only one sysctl table, and it's data points to the location of the desired field in the initial namespace. So the trickery finds the same field in the target namespace.

I believe Eric and Pavel are working on a patchset that will make this trickery unnecessary by having sort of shadow sysctls.

-serge

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