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Subject: Re: [PATCH 1/4] users: let clone\_uts\_ns() handle setting uts-&gt;user\_ns  
Posted by [Daniel Lezcano](#) on Mon, 21 Feb 2011 10:03:50 GMT

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On 02/21/2011 05:01 AM, Serge E. Hallyn wrote:

> To do so we need to pass in the task\_struct who'll get the utsname,  
> so we can get its user\_ns.

>

> Signed-off-by: Serge E. Hallyn<serge.hallyn@canonical.com>

> ---

> include/linux/utsname.h | 10 ++++++-----

> kernel/nsproxy.c | 7 +-----

> kernel/utsname.c | 12 ++++++-----

> 3 files changed, 14 insertions(+), 15 deletions(-)

>

> diff --git a/include/linux/utsname.h b/include/linux/utsname.h

> index 85171be..165b17b 100644

> --- a/include/linux/utsname.h

> +++ b/include/linux/utsname.h

> @@ -52,8 +52,9 @@ static inline void get\_uts\_ns(struct uts\_namespace \*ns)

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

> }

>

> -extern struct uts\_namespace \*copy\_utsname(unsigned long flags,

> - struct uts\_namespace \*ns);

> +extern struct uts\_namespace \*copy\_utsname(struct task\_struct \*tsk,

> + unsigned long flags,

> + struct uts\_namespace \*ns);

Why don't we pass 'user\_ns' instead of 'tsk' ? that will look  
semantically clearer for the caller no ?

(example below).

> extern void free\_uts\_ns(struct kref \*kref);

>

> static inline void put\_uts\_ns(struct uts\_namespace \*ns)

> @@ -69,8 +70,9 @@ static inline void put\_uts\_ns(struct uts\_namespace \*ns)

> {

> }

>

> -static inline struct uts\_namespace \*copy\_utsname(unsigned long flags,

> - struct uts\_namespace \*ns)

> +static inline struct uts\_namespace \*copy\_utsname(struct task\_struct \*tsk,

> + unsigned long flags,

> + struct uts\_namespace \*ns)

> {

```

> if (flags & CLONE_NEWUTS)
> return ERR_PTR(-EINVAL);
> diff --git a/kernel/nsproxy.c b/kernel/nsproxy.c
> index b6dbff2..ffa6b67 100644
> --- a/kernel/nsproxy.c
> +++ b/kernel/nsproxy.c
> @@ -69,16 +69,11 @@ static struct nsproxy *create_new_namespaces(unsigned long flags,
> goto out_ns;
> }
>
> - new_nsp->uts_ns = copy_utsname(flags, tsk->nsproxy->uts_ns);
> + new_nsp->uts_ns = copy_utsname(tsk, flags, tsk->nsproxy->uts_ns);
> if (IS_ERR(new_nsp->uts_ns)) {
> err = PTR_ERR(new_nsp->uts_ns);
> goto out_uts;
> }

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...

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new_nsp->uts_ns = copy_utsname(flags, tsk->nsproxy->uts_ns, task_cred_xxx(tsk,
user)->user_ns);

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...

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> - if (new_nsp->uts_ns != tsk->nsproxy->uts_ns) {
> - put_user_ns(new_nsp->uts_ns->user_ns);
> - new_nsp->uts_ns->user_ns = task_cred_xxx(tsk, user)->user_ns;
> - get_user_ns(new_nsp->uts_ns->user_ns);
> - }
>
> new_nsp->ipc_ns = copy_ipcs(flags, tsk->nsproxy->ipc_ns);
> if (IS_ERR(new_nsp->ipc_ns)) {
> diff --git a/kernel/utsname.c b/kernel/utsname.c
> index a7b3a8d..9462580 100644
> --- a/kernel/utsname.c
> +++ b/kernel/utsname.c
> @@ -31,7 +31,8 @@ static struct uts_namespace *create_uts_ns(void)
> * @old_ns: namespace to clone
> * Return NULL on error (failure to kcalloc), new ns otherwise
> */
> -static struct uts_namespace *clone_uts_ns(struct uts_namespace *old_ns)
> +static struct uts_namespace *clone_uts_ns(struct task_struct *tsk,
> + struct uts_namespace *old_ns)
> {
> struct uts_namespace *ns;
>
> @@ -41,8 +42,7 @@ static struct uts_namespace *clone_uts_ns(struct uts_namespace
> *old_ns)

```

```

>
> down_read(&uts_sem);
> memcpy(&ns->name,&old_ns->name, sizeof(ns->name));
> - ns->user_ns = old_ns->user_ns;
> - get_user_ns(ns->user_ns);
> + ns->user_ns = get_user_ns(task_cred_xxx(tsk, user)->user_ns);
> up_read(&uts_sem);
> return ns;
> }
> @@ -53,7 +53,9 @@ static struct uts_namespace *clone_uts_ns(struct uts_namespace
*old_ns)
> * utsname of this process won't be seen by parent, and vice
> * versa.
> */
> -struct uts_namespace *copy_utsname(unsigned long flags, struct uts_namespace *old_ns)
> +struct uts_namespace *copy_utsname(struct task_struct *tsk,
> + unsigned long flags,
> + struct uts_namespace *old_ns)
> {
> struct uts_namespace *new_ns;
>
> @@ -63,7 +65,7 @@ struct uts_namespace *copy_utsname(unsigned long flags, struct
uts_namespace *ol
> if (!(flags & CLONE_NEWUTS))
> return old_ns;
>
> - new_ns = clone_uts_ns(old_ns);
> + new_ns = clone_uts_ns(tsk, old_ns);
>
> put_uts_ns(old_ns);
> return new_ns;

```

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

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