Subject: Re: PATCH -mm] fix create_new_namespaces() return value
Posted by Cedric Le Goater on Tue, 12 Jun 2007 07:49:10 GMT
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Badari Pulavarty wrote:
>
>
> Cedric Le Goater wrote:
>
>> The following patch modifies create_new_namespaces() to also use the
>> errors returned by the copy_*_ns routines and not to systematically
>> return ENOMEM.
>>
>
> In my initial version, I did same. It doesn't work :(
>
> copy_*_ns() routines doesn't return any errors. All they return is NULL
> in case of a
> failure + with the exception of copy_mnt_ns, there are no other failure
> cases.

mnt ant uts namespaces return NULL right but this is not true for ipc namespace
which returns -ENOMEM. user namespace returns -EINVAL if CONFIG_USER_NS is not
selected. I expect pid namespace to do same and net namespace to do even more.

> So, there is no way to find out why the copy_*_ns() routines failed from
> create_new_namespaces().
> If you really really want to do this, change all copy_*_ns() routines to
> returns meaningful errors instead of NULL.

I will certainly do and change mnt ant uts namespaces to return -ENOMEM but
we will still require the patch below.

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>> ---
>> kernel/nsproxy.c | 23 ++++++++++++++++++------
>> 1 file changed, 17 insertions(+), 6 deletions(-)
>>
>> Index: 2.6.22-rc4-mm2/kernel/nsproxy.c
>> ==========
>> --- 2.6.22-rc4-mm2.orig/kernel/nsproxy.c
>> +++ 2.6.22-rc4-mm2/kernel/nsproxy.c
>> @@ -58,30 +58,41 @@ static struct nsproxy *create_new_namesp

```
>>             struct fs_struct *new_fs)
>> {
>>     struct nsproxy *new_nsp;
>> +    int err;
>>
>>     new_nsp = clone_nsproxy(tsk->nsproxy);
>>     if (!new_nsp)
>>         return ERR_PTR(-ENOMEM);
>>
>>     new_nsp->mnt_ns = copy_mnt_ns(flags, tsk->nsproxy->mnt_ns, new_fs);
>> -    if (IS_ERR(new_nsp->mnt_ns))
>> +    if (IS_ERR(new_nsp->mnt_ns)) {
>> +        err = PTR_ERR(new_nsp->mnt_ns);
>>         goto out_ns;
>> +    }
>>
>>     new_nsp->uts_ns = copy_utsname(flags, tsk->nsproxy->uts_ns);
>> -    if (IS_ERR(new_nsp->uts_ns))
>> +    if (IS_ERR(new_nsp->uts_ns)) {
>> +        err = PTR_ERR(new_nsp->uts_ns);
>>         goto out_uts;
>> +    }
>>
>>     new_nsp->ipc_ns = copy_ipcs(flags, tsk->nsproxy->ipc_ns);
>> -    if (IS_ERR(new_nsp->ipc_ns))
>> +    if (IS_ERR(new_nsp->ipc_ns)) {
>> +        err = PTR_ERR(new_nsp->ipc_ns);
>>         goto out_ipc;
>> +    }
>>
>>     new_nsp->pid_ns = copy_pid_ns(flags, tsk->nsproxy->pid_ns);
>> -    if (IS_ERR(new_nsp->pid_ns))
>> +    if (IS_ERR(new_nsp->pid_ns)) {
>> +        err = PTR_ERR(new_nsp->pid_ns);
>>         goto out_pid;
>> +    }
>>
>>     new_nsp->user_ns = copy_user_ns(flags, tsk->nsproxy->user_ns);
>> -    if (IS_ERR(new_nsp->user_ns))
>> +    if (IS_ERR(new_nsp->user_ns)) {
>> +        err = PTR_ERR(new_nsp->user_ns);
>>
> Hmm.. copy_user_ns() ? I don't see this in rc4-mm2.
```

it's in the -mm stack.

C.

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