## Subject: Re: [PATCH 14/15] Destroy pid namespace on init's death Posted by Dave Hansen on Wed, 01 Aug 2007 16:00:30 GMT

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```
On Tue, 2007-07-31 at 23:16 -0700, sukadev@us.ibm.com wrote:
> Oleg Nesterov [oleg@tv-sign.ru] wrote:
> | On 07/30, sukadev@us.ibm.com wrote:
> | >
> | > --- lx26-23-rc1-mm1.orig/kernel/exit.c 2007-07-26 20:08:16.000000000 -0700
> | > +++ lx26-23-rc1-mm1/kernel/exit.c 2007-07-30 23:10:30.000000000 -0700
> | > @ @ -915,6 +915,7 @ @ fastcall NORET_TYPE void do_exit(long co
> | > struct task_struct *tsk = current;
> | > int group_dead;
> | > + struct pid_namespace *pid_ns = tsk->nsproxy->pid_ns;
> | >
> | > profile_task_exit(tsk);
> | >
> | > @ @ -925,9 +926,10 @ @ fastcall NORET TYPE void do exit(long co
> | > if (unlikely(!tsk->pid))
> | > panic("Attempted to kill the idle task!");
> | > if (unlikely(tsk == task child reaper(tsk))) {
> | > - if (task_active_pid_ns(tsk) != &init_pid_ns)
> | > - task_active_pid_ns(tsk)->child_reaper =
> | > -
       init_pid_ns.child_reaper;
> | > + if (pid_ns != &init_pid_ns) {
> | > + zap_pid_ns_processes(pid_ns);
> | > + pid_ns->child_reaper = init_pid_ns.child_reaper;
> | > + }
> | > else
       panic("Attempted to kill init!");
> | > }
> |
> | Just to remind you, this is not right when init is multi-threaded,
> | we should do this only when the last thread exits.
>
> Sorry, I needed to clarify somethings about the multi-threaded init. I
> got the impresssion that you were sending a patch for the existing bug,
> and meant to review/clarify in the context of the patch.
>
> Anyways, re: requirements for multi-threaded init:
>
> Our current definition of is_container_init() and task_child_reaper()
> refer only to the main-thread of the container-init (since they check
> for pid_t == 1)
```

Remember, the "pid" is actually a tgid:

```
asmlinkage long sys_getpid(void)
{
    return current->tgid;
}
```

So, there are multiple tasks with a "pid" == 1 with a multithreaded init.

- > If the main-thread is exiting and is the last thread in the group,
- > we want terminate other processes in the pid ns (simple case).

>

- > If the main thread is exiting, but is not the last thread in the
- > group, should we let it exit and let the next thread in the group
- > the reaper of the pid ns?

Well, what happens with a multithreaded init today?

-- Dave

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