## Subject: Re: [PATCH 5/5] Move alloc\_pid call to copy\_process Posted by Oleg Nesterov on Tue, 17 Jul 2007 13:34:30 GMT View Forum Message <> Reply to Message

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On 07/16, sukadev@us.ibm.com wrote:
> Oleg Nesterov [oleg@tv-sign.ru] wrote:
> |
> | Could you please give more details why we need this change?
> Well, with multiple pid namespaces, we may need to allocate a new
> 'struct pid namespace' if the CLONE NEWPID flag is specified. And
> as a part of initializing this pid_namespace, we need the 'task_struct'
> that will be the reaper of the new pid namespace.
> And this task_struct is allocated in copy_process(). So we could
> still alloc_pid() in do_fork(), as we are doing currently and set
> the reaper of the new pid namespace later in copy process(). But
> that seemed to complicate error handling and add checks again in
> copy process() for the CLONE NEWPID.
OK, thanks.
> | Even if we really need this, can't we do these checks in copy_process()?
>
> We could and I did have a check in copy_process() in one of my earlier
> versions to Containers@ list. We thought it cluttered copy process() a
> bit.
Yes, but having the "pid == &init struct pid" in free pid() is imho worse,
> container_exit(p, container_callbacks_done);
> delayacct_tsk_free(p);
> + free_pid(pid);
> +bad_fork_put_binfmt_module:
> [...snip...]
> @ @ -206,6 +206,10 @ @ fastcall void free pid(struct pid *pid)
> /* We can be called with write lock irg(&tasklist lock) held */
  unsigned long flags;
>
> + /* check this here to keep copy_process() cleaner */
> + if (unlikely(pid == &init_struct_pid))
> + return;
> +
```

Wouldn't it better if copy\_process()'s error path does

if (pid != &init\_struct\_pid) free\_pid(pid);

instead? OK, "cleaner" is a matter of taste, but from the perfomance POV this would be better, even if not noticable.

Oleg.

Containers mailing list

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