
Subject: Re: [PATCH 3/9] pid: Implement ns_of_pid.
Posted by [Sukadev Bhattiprolu](#) on Thu, 13 Dec 2007 00:59:45 GMT
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Eric W. Biederman [ebiederm@xmission.com] wrote:

| A current problem with the pid namespace is that it is
| easy to do pid related work after exit_task_namespaces which
| drops the nsproxy pointer.
|
| However if we are doing pid namespace related work we are
| always operating on some struct pid which retains the pid_namespace
| pointer of the pid namespace it was allocated in.
|
| So provide ns_of_pid which allows us to find the pid
| namespace a pid was allocated in.
|
| Using this we have the needed infrastructure to do pid
| namespace related work at anytime we have a struct pid,
| removing the chance of accidentally having a NULL
| pointer dereference when accessing current->nsproxy.

Yep.

Signed-off-by: Eric W. Biederman <ebiederm@xmission.com>
include/linux/pid.h
1 files changed, 11 insertions(+), 0 deletions(-)
diff --git a/include/linux/pid.h b/include/linux/pid.h
index f84d532..c4b56c0 100644
--- a/include/linux/pid.h
+++ b/include/linux/pid.h
@@ -123,6 +123,17 @@ int next_pidmap(struct pid_namespace *pid_ns, int last);
extern struct pid *alloc_pid(struct pid_namespace *ns);
extern void FASTCALL(free_pid(struct pid *pid));
+/* ns_of_pid returns the pid namespace in which the specified
+ * pid was allocated.
+ */
+static inline struct pid_namespace *ns_of_pid(struct pid *pid)

My patch refers to this function as pid_active_pid_ns() - I have
been meaning to send that out on top of your signals patch.
Since a pid has many namespaces, we have been using 'active pid ns'
to refer to this ns.

Even your next patch modifies `task_active_pid_ns()` to use this.
So can we rename this functio to `pid_active_pid_ns()` ?

```
| +{  
| + struct pid_namespace *ns = NULL;  
| + if (pid)  
| + ns = pid->numbers[pid->level].ns;  
| + return ns;  
| +}  
| +  
| /*  
|  * the helpers to get the pid's id seen from different namespaces  
|  *  
| --  
| 1.5.3.rc6.17.g1911
```

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