Subject: Re: [PATCH] allow a task to join a pid namespace Posted by Oleg Nesterov on Mon, 04 Jun 2012 16:51:17 GMT View Forum Message <> Reply to Message

On 06/04, Glauber Costa wrote:

>

> Currently, it is possible for a process to join existing

> net, uts and ipc namespaces. This patch allows a process to join an

> existing pid namespace as well.

I can't understand this patch... but probably I missed something, I never really understood setns.

```
> +static int pidns_install(struct nsproxy *nsproxy, void *_ns)
> +{
> + struct pid *newpid;
> + struct pid_namespace *ns = _ns;
> +
> + if (is_container_init(current))
> + return -EINVAL;
> +
> + if (nsproxy->pid_ns != ns->parent)
> + return -EPERM;
```

At least you should also check that current is single-threaded, I guess.

```
> +
> + if (task_pgrp(current) != task_pid(current))
> + return -EPERM;
> +
> + if (task_session(current) != task_pid(current))
> + return -EPERM;
```

Both checks are obviously racy without tasklist.

```
> + newpid = alloc_pid(ns);
> + if (!newpid)
> + return -ENOMEM;
```

Hmm. Doesn't this mean that pid_nr of this task (as it seen in its current namespace) will be changed? This doesn't look sane.

```
> + put_pid_ns(nsproxy->pid_ns);
> + nsproxy->pid_ns = get_pid_ns(ns);
> +
> + write_lock_irq(&tasklist_lock);
```

- > + change_pid(current, PIDTYPE_PID, newpid);
- > + change_pid(current, PIDTYPE_PGID, newpid);
- > + change_pid(current, PIDTYPE_SID, newpid);
- > + write_unlock_irq(&tasklist_lock);

Hmm. So, until the caller does switch_task_namespaces() task_active_pid_ns(current) != current->nsproxy->pid_ns, doesn't look very nice too.

I don't think this can be right. If nothing else, this breaks it_real_fn().

Oleg.

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