Subject: Re: [PATCH 2/3] pidns: Call pid_ns_prepare_proc from create_pid_namespace
Posted by Serge E. Hallyn on Tue, 15 Feb 2011 18:47:21 GMT
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Quoting Daniel Lezcano (daniel.lezcano@free.fr):
> From: Eric W. Biederman <ebiederm@xmission.com>
>
> Reorganize proc_get_sb so it can be called before the struct pid
> of the first process is allocated.
>
> Signed-off-by: Eric W. Biederman <ebiederm@xmission.com>
> Signed-off-by: Daniel Lezcano <daniel.lezcano@free.fr>

Acked-by: Serge E. Hallyn <serge@hallyn.com>

> ---
> fs/proc/root.c | 25 +++++++----------------
> kernel/fork.c | 6 ------
> kernel/pid_namespace.c | 11 ++++++++--
> 3 files changed, 16 insertions(+), 26 deletions(-)
>
> diff --git a/fs/proc/root.c b/fs/proc/root.c
> index ef9fa8e..e5e2bfa 100644
> --- a/fs/proc/root.c
> +++ b/fs/proc/root.c
> @@ -43,17 +43,6 @@ static struct dentry *proc_mount(struct file_system_type *fs_type,
>   struct pid_namespace *ns;
>   struct proc_inode *ei;
>
> - if (proc_mnt) {
> - /* Seed the root directory with a pid so it doesn't need
> -   * to be special in base.c. I would do this earlier but
> -   * the only task alive when /proc is mounted the first time
> -   * is the init_task and it doesn't have any pids.
> -   */
> - ei = PROC_I(proc_mnt->mnt_sb->s_root->d_inode);
> - if (!ei->pid)
> -   ei->pid = find_get_pid(1);
> - }
> -
>   if (flags & MS_KERNMOUNT)
>   ns = (struct pid_namespace *)data;
>   else
> @@ -71,16 +60,16 @@ static struct dentry *proc_mount(struct file_system_type *fs_type,
>   return ERR_PTR(err);
>   }
>

```
> -  ei = PROC_I(sb->s_root->d_inode);
> -  if (!ei->pid) {
> -   rcu_read_lock();
> -   ei->pid = get_pid(find_pid_ns(1, ns));
> -   rcu_read_unlock();
> -  }
> -
>    sb->s_flags |= MS_ACTIVE;
>   }
>
> + ei = PROC_I(sb->s_root->d_inode);
> + if (!ei->pid) {
> +  rcu_read_lock();
> +  ei->pid = get_pid(find_pid_ns(1, ns));
> +  rcu_read_unlock();
> + }
> +
>   return dget(sb->s_root);
>  }
>
> diff --git a/kernel/fork.c b/kernel/fork.c
> index c9f0784..e7a5907 100644
> --- a/kernel/fork.c
> +++ b/kernel/fork.c
> @@ -1180,12 +1180,6 @@ static struct task_struct *copy_process(unsigned long clone_flags,
>    pid = alloc_pid(p->nsproxy->pid_ns);
>    if (!pid)
>     goto bad_fork_cleanup_io;
> -
> -  if (clone_flags & CLONE_NEWPID) {
> -   retval = pid_ns_prepare_proc(p->nsproxy->pid_ns);
> -   if (retval < 0)
> -    goto bad_fork_free_pid;
> -  }
>   }
>
>   p->pid = pid_nr(pid);
> diff --git a/kernel/pid_namespace.c b/kernel/pid_namespace.c
> index a5aff94..e9c9adc 100644
> --- a/kernel/pid_namespace.c
> +++ b/kernel/pid_namespace.c
> @@ -14,6 +14,7 @@
>  #include <linux/err.h>
>  #include <linux/acct.h>
>  #include <linux/slab.h>
> +#include <linux/proc_fs.h>
>
>  #define BITS_PER_PAGE  (PAGE_SIZE*8)
```

>
> @@ -72,7 +73,7 @@ static struct pid_namespace *create_pid_namespace(struct
pid_namespace *parent_p
> {
>   struct pid_namespace *ns;
>   unsigned int level = parent_pid_ns->level + 1;
> - int i;
> + int i, err = -ENOMEM;
>
>   ns = kmem_cache_zalloc(pid_ns_cachep, GFP_KERNEL);
>   if (ns == NULL)
> @@ -96,14 +97,20 @@ static struct pid_namespace *create_pid_namespace(struct
pid_namespace *parent_p
>   for (i = 1; i < PIDMAP_ENTRIES; i++)
>   atomic_set(&ns->pidmap[i].nr_free, BITS_PER_PAGE);
>
> + err = pid_ns_prepare_proc(ns);
> + if (err)
> + goto out_put_parent_pid_ns;
> +
>   return ns;
>
> +out_put_parent_pid_ns:
> + put_pid_ns(parent_pid_ns);
> out_free_map:
>   kfree(ns->pidmap[0].page);
> out_free:
>   kmem_cache_free(pid_ns_cachep, ns);
> out:
> - return ERR_PTR(-ENOMEM);
> + return ERR_PTR(err);
> }
>
> static void destroy_pid_namespace(struct pid_namespace *ns)
> --
> 1.7.1
>
> _____
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