
Subject: [PATCH 2/4] userns: let copy_ipcns handle setting ipc_ns->user_ns
Posted by [serge](#) on Mon, 21 Feb 2011 04:02:30 GMT

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To do that, we have to pass in the task_struct of the task which will own the ipc_ns, so we can assign its user_ns.

Signed-off-by: Serge E. Hallyn <serge.hallyn@canonical.com>

```
---
include/linux/ipc_namespace.h | 8 ++++++---
ipc/namespace.c                | 12 ++++++++-----
kernel/nsproxy.c              | 7 +-----
3 files changed, 13 insertions(+), 14 deletions(-)
```

```
diff --git a/include/linux/ipc_namespace.h b/include/linux/ipc_namespace.h
```

```
index 46d2eb4..9974429 100644
```

```
--- a/include/linux/ipc_namespace.h
```

```
+++ b/include/linux/ipc_namespace.h
```

```
@@ -92,7 +92,8 @@ static inline int mq_init_ns(struct ipc_namespace *ns) { return 0; }
#endif
```

```
#if defined(CONFIG_IPC_NS)
```

```
-extern struct ipc_namespace *copy_ipcns(unsigned long flags,
```

```
+extern struct ipc_namespace *copy_ipcns(struct task_struct *tsk,
```

```
+ unsigned long flags,
```

```
struct ipc_namespace *ns);
```

```
static inline struct ipc_namespace *get_ipc_ns(struct ipc_namespace *ns)
```

```
{
@@ -103,8 +104,9 @@ static inline struct ipc_namespace *get_ipc_ns(struct ipc_namespace
*ns)
```

```
extern void put_ipc_ns(struct ipc_namespace *ns);
```

```
#else
```

```
-static inline struct ipc_namespace *copy_ipcns(unsigned long flags,
```

```
- struct ipc_namespace *ns)
```

```
+static inline struct ipc_namespace *copy_ipcns(struct task_struct *tsk,
```

```
+ unsigned long flags,
```

```
+ struct ipc_namespace *ns)
```

```
{
if (flags & CLONE_NEWIPC)
return ERR_PTR(-EINVAL);
```

```
diff --git a/ipc/namespace.c b/ipc/namespace.c
```

```
index aa18899..ee84882 100644
```

```
--- a/ipc/namespace.c
```

```
+++ b/ipc/namespace.c
```

```
@@ -15,7 +15,8 @@
```

```
#include "util.h"
```

```

-static struct ipc_namespace *create_ipc_ns(struct ipc_namespace *old_ns)
+static struct ipc_namespace *create_ipc_ns(struct task_struct *tsk,
+      struct ipc_namespace *old_ns)
{
    struct ipc_namespace *ns;
    int err;
@@ -44,17 +45,18 @@ static struct ipc_namespace *create_ipc_ns(struct ipc_namespace
*old_ns)
    ipcns_notify(IPCNS_CREATED);
    register_ipcns_notifier(ns);

- ns->user_ns = old_ns->user_ns;
- get_user_ns(ns->user_ns);
+ ns->user_ns = get_user_ns(task_cred_xxx(tsk, user)->user_ns);

    return ns;
}

-struct ipc_namespace *copy_ipcs(unsigned long flags, struct ipc_namespace *ns)
+struct ipc_namespace *copy_ipcs(struct task_struct *tsk,
+    unsigned long flags,
+    struct ipc_namespace *ns)
{
    if (!(flags & CLONE_NEWIPC))
        return get_ipc_ns(ns);
- return create_ipc_ns(ns);
+ return create_ipc_ns(tsk, ns);
}

/*
diff --git a/kernel/nsproxy.c b/kernel/nsproxy.c
index ffa6b67..b905ecc 100644
--- a/kernel/nsproxy.c
+++ b/kernel/nsproxy.c
@@ -75,16 +75,11 @@ static struct nsproxy *create_new_namespaces(unsigned long flags,
    goto out_uts;
}

- new_nsp->ipc_ns = copy_ipcs(flags, tsk->nsproxy->ipc_ns);
+ new_nsp->ipc_ns = copy_ipcs(tsk, flags, tsk->nsproxy->ipc_ns);
    if (IS_ERR(new_nsp->ipc_ns)) {
        err = PTR_ERR(new_nsp->ipc_ns);
        goto out_ipc;
    }
- if (new_nsp->ipc_ns != tsk->nsproxy->ipc_ns) {
-     put_user_ns(new_nsp->ipc_ns->user_ns);
-     new_nsp->ipc_ns->user_ns = task_cred_xxx(tsk, user)->user_ns;

```

```
- get_user_ns(new_nsp->ipc_ns->user_ns);  
- }
```

```
new_nsp->pid_ns = copy_pid_ns(flags, task_active_pid_ns(tsk));  
if (IS_ERR(new_nsp->pid_ns)) {
```

```
--
```

1.7.0.4

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