
Subject: [PATCH] Introduce and use get_task_mnt_ns()
Posted by [adobriyan](#) on Wed, 17 Jan 2007 15:36:45 GMT
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Apply after "[PATCH] Fix NULL ->nsproxy dereference in /proc/*/mounts".

Similar to get_task_mm(): get a reference to task's mnt namespace if any.
Suggested by Pavel Emelianov.

Signed-off-by: Alexey Dobriyan <adobriyan@openvz.org>

```
fs/proc/base.c      | 15 ++-----  
include/linux/nsproxy.h | 1 +  
kernel/nsproxy.c    | 14 ++++++++  
3 files changed, 17 insertions(+), 13 deletions(-)
```

--- a/fs/proc/base.c

+++ b/fs/proc/base.c

```
@@ -370,13 +370,7 @@ static int mounts_open(struct inode *ino  
    int ret = -EINVAL;
```

```
    if (task) {  
-   task_lock(task);  
-   if (task->nsproxy) {  
-   ns = task->nsproxy->mnt_ns;  
-   if (ns)  
-   get_mnt_ns(ns);  
-   }  
-   task_unlock(task);  
+   ns = get_task_mnt_ns(task);  
    put_task_struct(task);  
    }
```

```
@@ -443,12 +437,7 @@ static int mountstats_open(struct inode  
    struct task_struct *task = get_proc_task(inode);
```

```
    if (task) {  
-   task_lock(task);  
-   if (task->nsproxy)  
-   mnt_ns = task->nsproxy->mnt_ns;  
-   if (mnt_ns)  
-   get_mnt_ns(mnt_ns);  
-   task_unlock(task);  
+   mnt_ns = get_task_mnt_ns(task);  
    put_task_struct(task);  
    }
```

```

--- a/include/linux/nsproxy.h
+++ b/include/linux/nsproxy.h
@@ -35,6 +35,7 @@ struct nsproxy *dup_namespaces(struct ns
int copy_namespaces(int flags, struct task_struct *tsk);
void get_task_namespaces(struct task_struct *tsk);
void free_nsproxy(struct nsproxy *ns);
+struct mnt_namespace * get_task_mnt_ns(struct task_struct *tsk);

static inline void put_nsproxy(struct nsproxy *ns)
{
--- a/kernel/nsproxy.c
+++ b/kernel/nsproxy.c
@@ -147,3 +147,17 @@ void free_nsproxy(struct nsproxy *ns)
    put_pid_ns(ns->pid_ns);
    kfree(ns);
}
+
+struct mnt_namespace * get_task_mnt_ns(struct task_struct *tsk)
+{
+ struct mnt_namespace *mnt_ns = NULL;
+
+ task_lock(tsk);
+ if (tsk->nsproxy)
+ mnt_ns = tsk->nsproxy->mnt_ns;
+ if (mnt_ns)
+ get_mnt_ns(mnt_ns);
+ task_unlock(tsk);
+
+ return mnt_ns;
+}

```
