
Subject: [PATCH 12/28] [PREP 12/14] Add proc vfstmount on struct pid_namespace
Posted by [Pavel Emelianov](#) on Fri, 15 Jun 2007 16:10:28 GMT

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Each namespace is supposed to have its own proc mount. So add the struct vfstmount pointer to struct pid_namespace and introduce the helpers to initialize it properly.

Signed-off-by: Pavel Emelianov <xemul@openvz.org>

```
fs/proc/root.c          | 20 ++++++
include/linux/pid_namespace.h | 3 +++
include/linux/proc_fs.h   | 12 ++++++
3 files changed, 35 insertions(+)
```

--- ./fs/proc/root.c.pidsnwithproc 2007-06-15 15:05:16.000000000 +0400

+++ ./fs/proc/root.c 2007-06-15 15:12:25.000000000 +0400

@@ -107,6 +107,9 @@ void __init proc_root_init(void)

unregister_filesystem(&proc_fs_type);

return;

}

+#ifdef CONFIG_PID_NS

+ init_pid_ns.proc_mnt = proc_mnt;

+#endif

proc_misc_init();

proc_net = proc_mkdir("net", NULL);

proc_net_stat = proc_mkdir("net/stat", NULL);

@@ -222,6 +225,23 @@ struct proc_dir_entry * create_proc_root

return de;

}

+int pid_ns_prepare_proc(struct pid_namespace *ns)

+{

+ struct vfstmount *mnt;

+

+ mnt = kern_mount(&proc_fs_type);

+ if (IS_ERR(mnt))

+ return PTR_ERR(mnt);

+

+ ns->proc_mnt = mnt;

+ return 0;

+}

+

+void pid_ns_release_proc(struct pid_namespace *ns)

+{

+ mntput(ns->proc_mnt);

```

+}
+
EXPORT_SYMBOL(proc_symlink);
EXPORT_SYMBOL(proc_mkdir);
EXPORT_SYMBOL(create_proc_entry);
--- ./include/linux/pid_namespace.h.pidnswithproc 2007-06-15 15:00:32.000000000 +0400
+++ ./include/linux/pid_namespace.h 2007-06-15 15:12:25.000000000 +0400
@@ -20,6 +20,9 @@ struct pid_namespace {
    struct pidmap pidmap[PIDMAP_ENTRIES];
    int last_pid;
    struct task_struct *child_reaper;
+ifdef CONFIG_PROC_FS
+ struct vfsmount *proc_mnt;
+endif
};

extern struct pid_namespace init_pid_ns;
--- ./include/linux/proc_fs.h.pidnswithproc 2007-06-15 15:04:52.000000000 +0400
+++ ./include/linux/proc_fs.h 2007-06-15 15:12:25.000000000 +0400
@@ -144,6 +144,9 @@ extern const struct file_operations proc
extern const struct file_operations proc_kmsg_operations;
extern const struct file_operations ppc_htab_operations;

+extern int pid_ns_prepare_proc(struct pid_namespace *ns);
+extern void pid_ns_release_proc(struct pid_namespace *ns);
+
/*
 * proc_tty.c
 */
@@ -251,6 +254,15 @@ static inline void proc_tty_unregister_d

extern struct proc_dir_entry proc_root;

+static inline int pid_ns_prepare_proc(struct pid_namespace *ns)
+{
+ return 0;
+}
+
+static inline void pid_ns_release_proc(struct pid_namespace *ns)
+{
+}
+
#endif /* CONFIG_PROC_FS */

#if !defined(CONFIG_PROC_KCORE)

```

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