
Subject: [PATCH 12/28] [PREP 12/14] Add proc vfsmount 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 vfsmount 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.pidns with proc 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 vfsmount *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.pidns with proc 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.pidns with proc 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 */

#ifndef CONFIG_PROC_KCORE

```

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