Subject: Add pid_namespace to nsproxy
Posted by Sukadev Bhattiprolu on Fri, 08 Sep 2006 05:41:00 GMT
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Add a notion of pid namespace to nsproxy (and by extension, to task_struct).
Currently there is only one pid namespace, init_pid_ns and all tasks belong
to this pid namespace. When a new task is created, it inherits its parent's
pid namespace (in copy_process()).

This is based on Eric Biederman's patch: http://lkml.org/lkml/2006/2/6/285

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 include/linux/init_task.h | 2 ++
 include/linux/nsproxy.h | 1 +
 2 files changed, 3 insertions(+)

Index: lx26-18-rc5-mm1/include/linux/init_task.h
===
--- lx26-18-rc5-mm1.orig/include/linux/init_task.h 2006-09-07 22:21:06.000000000 -0700
+++ lx26-18-rc5-mm1/include/linux/init_task.h 2006-09-07 22:29:58.000000000 -0700
@@ -7,6 +7,7 @@
 #include <linux/utsname.h>
 #include <linux/lockdep.h>
 #include <linux/ipc.h>
+#include <linux/pid_namespace.h>

 #define INIT_FDTABLE \
 {   \
@@ -72,6 +73,7 @@

 extern struct nsproxy init_nsproxy;
 #define INIT_NSPROXY(nsproxy) {   \
+ .pid_ns = &init_pid_ns,   \
  .count = ATOMIC_INIT(1),   \
  .nslock = SPIN_LOCK_UNLOCKED,   \
  .uts_ns = &init_uts_ns,   \
Index: lx26-18-rc5-mm1/include/linux/nsproxy.h
===
--- lx26-18-rc5-mm1.orig/include/linux/nsproxy.h 2006-09-07 22:21:06.000000000 -0700
+++ lx26-18-rc5-mm1/include/linux/nsproxy.h 2006-09-07 22:30:22.000000000 -0700
@@ -23,6 +23,7 @@ struct ipc_namespace;
 struct nsproxy {

```
  atomic_t count;
  spinlock_t nslock;
+ struct pid_namespace *pid_ns;
  struct uts_namespace *uts_ns;
  struct ipc_namespace *ipc_ns;
  struct namespace *namespace;
```

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