
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;
```

Containers mailing list

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<https://lists.osdl.org/mailman/listinfo/containers>
