Subject: [PATCH v3 12/16] sunrpc: introduce get_rpc_pipefs()
Posted by Kirill A. Shutemov on Fri, 14 Jan 2011 13:49:10 GMT
View Forum Message <> Reply to Message

Get rpc_pipefs mount point by path. If path is NULL, we use first
rpc_pipefs from mount table visible from current root directory.

Signed-off-by: Kirill A. Shutemov <kas@openvz.org>
Acked-by: Rob Landley <rlandley@parallels.com>
---
 include/linux/sunrpc/rpc_pipe_fs.h | 1 +
 net/sunrpc/rpc_pipe.c | 51 ++++++++++++++++++++++++++++++++++++
 2 files changed, 52 insertions(+), 0 deletions(-)

diff --git a/include/linux/sunrpc/rpc_pipe_fs.h b/include/linux/sunrpc/rpc_pipe_fs.h
index f5216f1..4a8830a 100644
--- a/include/linux/sunrpc/rpc_pipe_fs.h
+++ b/include/linux/sunrpc/rpc_pipe_fs.h
@@ -46,6 +46,7 @@ RPC_I(struct inode *inode)

 extern struct vfsmount *init_rpc_pipefs;

+extern struct vfsmount *get_rpc_pipefs(const char *path);
 extern int rpc_pipefs_add_destroy_cb(struct super_block *sb,
   void (*destroy_cb)(void *data), void *data);

diff --git a/net/sunrpc/rpc_pipe.c b/net/sunrpc/rpc_pipe.c
index 39511e3..b72cb01 100644
--- a/net/sunrpc/rpc_pipe.c
+++ b/net/sunrpc/rpc_pipe.c
@@ -16,6 +16,9 @@
 #include <linux/namei.h>
 #include <linux/fsnotify.h>
 #include <linux/kernel.h>
+#include <linux/nsproxy.h>
+#include <linux/mnt_namespace.h>
+#include <linux/fs_struct.h>

 #include <asm/ioctls.h>
 #include <linux/fs.h>
@@ -939,6 +942,54 @@ static const struct super_operations s_ops = {

 #define RPCAUTH_GSSMAGIC 0x67596969

+static int check_rpc_pipefs(struct vfsmount *mnt, void *arg)
+{
+ struct vfsmount **rpcmount = arg;
+ struct path path = {

```
+  .mnt = mnt,
+  .dentry = mnt->mnt_root,
+ };
+
+ if (!mnt->mnt_sb)
+  return 0;
+ if (mnt->mnt_sb->s_magic != RPCAUTH_GSSMAGIC)
+  return 0;
+
+ if (!path_is_under(&path, &current->fs->root))
+  return 0;
+
+ *rpcmount = mntget(mnt);
+ return 1;
+}
+
+struct vfsmount *get_rpc_pipefs(const char *p)
+{
+ int error;
+ struct vfsmount *rpcmount = ERR_PTR(-EINVAL);
+ struct path path;
+
+ if (!p) {
+  iterate_mounts(check_rpc_pipefs, &rpcmount,
+    current->nsproxy->mnt_ns->root);
+
+  if (IS_ERR(rpcmount) && (current->nsproxy->mnt_ns ==
+     init_task.nsproxy->mnt_ns))
+   return mntget(init_rpc_pipefs);
+
+  return rpcmount;
+ }
+
+ error = kern_path(p, LOOKUP_FOLLOW | LOOKUP_DIRECTORY, &path);
+ if (error)
+  return ERR_PTR(error);
+
+ check_rpc_pipefs(path.mnt, &rpcmount);
+ path_put(&path);
+
+ return rpcmount;
+}
+EXPORT_SYMBOL_GPL(get_rpc_pipefs);
+
 struct destroy_cb {
  struct list_head list;
  void (*callback)(void *data);
--
```

1.7.3.4

_____

Containers mailing list
Containers@lists.linux-foundation.org
https://lists.linux-foundation.org/mailman/listinfo/containe rs