
Subject: [RFC PATCH 1/2] unix sockets: add ability for search for peer from passed root

Posted by [Stanislav Kinsbursky](#) on Fri, 10 Aug 2012 12:57:30 GMT

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This helper is used stream sockets yet.

All is simple: if non-NULL struct path was passed to unix_find_other(), then vfs_path_lookup() is called instead of kern_path().

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```
include/net/af_unix.h | 2 ++
net/unix/af_unix.c    | 25 ++++++-----
2 files changed, 20 insertions(+), 7 deletions(-)
```

```
diff --git a/include/net/af_unix.h b/include/net/af_unix.h
```

```
index 2ee33da..559467e 100644
```

```
--- a/include/net/af_unix.h
```

```
+++ b/include/net/af_unix.h
```

```
@@ -67,6 +67,8 @@ struct unix_sock {
```

```
    long unix_inq_len(struct sock *sk);
```

```
    long unix_outq_len(struct sock *sk);
```

```
+int unix_stream_connect_root(struct path *root, struct socket *sock,
```

```
+    struct sockaddr *uaddr, int addr_len, int flags);
```

```
#ifdef CONFIG_SYSCTL
```

```
extern int unix_sysctl_register(struct net *net);
```

```
diff --git a/net/unix/af_unix.c b/net/unix/af_unix.c
```

```
index 641f2e4..a790ebc 100644
```

```
--- a/net/unix/af_unix.c
```

```
+++ b/net/unix/af_unix.c
```

```
@@ -759,7 +759,7 @@ out: mutex_unlock(&u->readlock);
```

```
    return err;
```

```
}
```

```
-static struct sock *unix_find_other(struct net *net,
```

```
+static struct sock *unix_find_other(struct net *net, struct path *root,
```

```
    struct sockaddr_un *sunname, int len,
```

```
    int type, unsigned int hash, int *error)
```

```
{
```

```
@@ -769,7 +769,11 @@ static struct sock *unix_find_other(struct net *net,
```

```
    if (sunname->sun_path[0]) {
```

```
        struct inode *inode;
```

```
-    err = kern_path(sunname->sun_path, LOOKUP_FOLLOW, &path);
```

```
+
```

```
+    if (root)
```

```

+ err = vfs_path_lookup(root->dentry, root->mnt, sunname->sun_path, LOOKUP_FOLLOW,
&path);
+ else
+ err = kern_path(sunname->sun_path, LOOKUP_FOLLOW, &path);
  if (err)
    goto fail;
  inode = path.dentry->d_inode;
@@ -979,7 +983,7 @@ static int unix_dgram_connect(struct socket *sock, struct sockaddr *addr,
  goto out;

restart:
- other = unix_find_other(net, sunaddr, alen, sock->type, hash, &err);
+ other = unix_find_other(net, NULL, sunaddr, alen, sock->type, hash, &err);
  if (!other)
    goto out;

@@ -1053,8 +1057,8 @@ static long unix_wait_for_peer(struct sock *other, long timeo)
  return timeo;
}

-static int unix_stream_connect(struct socket *sock, struct sockaddr *uaddr,
-    int addr_len, int flags)
+int unix_stream_connect_root(struct path *root, struct socket *sock,
+    struct sockaddr *uaddr, int addr_len, int flags)
{
  struct sockaddr_un *sunaddr = (struct sockaddr_un *)uaddr;
  struct sock *sk = sock->sk;
@@ -1098,7 +1102,7 @@ static int unix_stream_connect(struct socket *sock, struct sockaddr
*uaddr,

restart:
/* Find listening sock. */
- other = unix_find_other(net, sunaddr, addr_len, sk->sk_type, hash, &err);
+ other = unix_find_other(net, root, sunaddr, addr_len, sk->sk_type, hash, &err);
  if (!other)
    goto out;

@@ -1227,6 +1231,13 @@ out:
  sock_put(other);
  return err;
}
+EXPORT_SYMBOL_GPL(unix_stream_connect_root);
+
+static int unix_stream_connect(struct socket *sock, struct sockaddr *uaddr,
+    int addr_len, int flags)
+{
+ return unix_stream_connect_root(NULL, sock, uaddr, addr_len, flags);
+}

```

```
static int unix_socketpair(struct socket *socka, struct socket *sockb)
{
@@ -1508,7 +1519,7 @@ restart:
    if (sunaddr == NULL)
        goto out_free;

-   other = unix_find_other(net, sunaddr, namelen, sk->sk_type,
+   other = unix_find_other(net, NULL, sunaddr, namelen, sk->sk_type,
        hash, &err);
    if (other == NULL)
        goto out_free;
```
