
Subject: Re: [RFC PATCH 0/5] net: socket bind to file descriptor introduced
Posted by [ebiederm](#) on Thu, 16 Aug 2012 03:03:24 GMT
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Stanislav Kinsbursky <skinsbursky@parallels.com> writes:

- > This patch set introduces new socket operation and new system call:
- > `sys_fbind()`, which allows to bind socket to opened file.
- > File to bind to can be created by `sys_mknod(S_IFSOCK)` and opened by
- > `open(O_PATH)`.
- >
- > This system call is especially required for UNIX sockets, which has name
- > lenght limitation.
- >
- > The following series implements...

Hmm. I just realized this patchset is even sillier than I thought.

Stanislav is the problem you are ultimately trying to solve nfs clients
in a container connecting to the wrong user space rpciod?

Aka `net/sunrpc/xprtsock.c:xs_setup_local` only taking an absolute path
and then creating a delayed work item to actually open the unix domain
socket?

The straight correct and straight forward thing to do appears to be:

- Capture the root from `current->fs` in `xs_setup_local`.
- In `xs_local_finish_connect` change `current->fs.root` to the captured
version of root before `kernel_connect`, and restore `current->fs.root`
after `kernel_connect`.

It might not be a bad idea to implement `open` on unix domain sockets in
a filesystem as `create(AF_LOCAL)+connect()` which would allow you to
replace `__sock_create + kernel_connect` with a simple `file_open_root`.

But I think the simple scheme of:

```
struct path old_root;  
old_root = current->fs.root;  
kernel_connect(...);  
current->fs.root = old_root;
```

Is more than sufficient and will remove the need for anything
except a purely local change to get nfs clients to connect from
containers.

Eric
