
Subject: Re: [RFC PATCH] SUNRPC: connect local transports synchronously
Posted by [Stanislav Kinsbursky](#) on Fri, 17 Feb 2012 08:25:45 GMT
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> On Thu, 2012-02-16 at 19:06 +0400, Stanislav Kinsbursky wrote:
>> Local transports uses UNIX sockets and connecting of these sockets is done in
>> context of file system namespace (i.e. task file system root).
>> Currently, all sockets connect operations are performed by rpciod work queue,
>> which actually means, that any service will be registered in the same rpcbind
>> instance regardless to process file system root.
>> This is not containers, which usually have it's own nested root. There are 2
>> approaches, how to solve the problem. First one is to store proper root in
>> transport and switch to it in rpciod workqueue function for connect operations.
>> But this looks ugly. The second one is to connect to unix sockets
>> synchronously. This patch implements the last one.
>
> That approach can fall afoul of the selinux restrictions on the process
> context. Processes that are allowed to write data, may not be allowed to
> create sockets or call connect(). That is the main reason for doing it
> in the rpciod context, which is a clean kernel process context.
>

Thanks for explanation, Trond.

So, this connect have to be done in kernel process context.

Now I can see 2 ways how to meet this requirement and reach the goal:

- 1) Change the fs root for rpciod while connecting.
- 2) Do not touch rpciod and launch special "connect" kernel thread to perform connect operations for unix sockets.

What do you think about this 2 ways above? Which one is less worse from your POW?
Maybe you have even a better solution for the problem?

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Best regards,
Stanislav Kinsbursky
