Subject: [RFC PATCH] SUNRPC: connect local transports synchronously Posted by Stanislav Kinsbursky on Thu, 16 Feb 2012 15:06:25 GMT View Forum Message <> Reply to Message

Local tranports uses UNIX sockets and connecting of these sockets is done in context of file system namespace (i.e. task file system root).

Currenly, 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 tranport 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 aptch implements the last one.

Signed-off-by: Stanislav Kinsbursky <skinsbursky@parallels.com>

1 files changed, 21 insertions(+), 1 deletions(-) diff --git a/net/sunrpc/xprtsock.c b/net/sunrpc/xprtsock.c index 55472c4..365cd6d 100644 --- a/net/sunrpc/xprtsock.c +++ b/net/sunrpc/xprtsock.c @@ -2177,6 +2177,26 @@ out: } /** + * xs_local_connect - connect a local (unix) socket to a remote endpoint + * @task: address of RPC task that manages state of connect request + * + * We have to connect unix sockets synchronously. Otherwise this connection + * will be done in file system context of rpciod queue, which is not suitable + * for processes with other root (changed root is a usual part of environment + * for containers). + */ + +static void xs_local_connect(struct rpc_task *task) +{ + struct rpc xprt *xprt = task->tk xprt; + struct sock_xprt *transport = container_of(xprt, struct sock_xprt, xprt); + struct work struct *work = &transport->connect worker.work; + + dprintk("RPC: xs_local_connect xprt %p\n", xprt); + work->func(work); +} +

* xs_connect - connect a socket to a remote endpoint * @task: address of RPC task that manages state of connect request * @ @ -2414,7 +2434,7 @ @ static struct rpc_xprt_ops xs_local_ops = { .release_xprt = xs_tcp_release_xprt, .rpcbind = xs_local_rpcbind, .set_port = xs_local_set_port, - .connect = xs_connect, + .connect = xs_local_connect, .buf_alloc = rpc_malloc, .buf_free = rpc_free, .send_request = xs_local_send_request,

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