
Subject: Re: [PATCH v6 1/8] SUNRPC: introduce helpers for reference counted
rpcbind clients

Posted by [Stanislav Kinsbursky](#) on Tue, 25 Oct 2011 12:41:43 GMT

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> On Tue, 2011-10-25 at 14:16 +0300, Stanislav Kinsbursky wrote:

>> v6:

>> 1) added write memory barrier to rpcb_set_local to make sure, that rpcbind

>> clients become valid before rpcb_users assignment

>> 2) explicitly set rpcb_users to 1 instead of incrementing it (looks clearer from
>> my pow).

>>

>> v5: fixed races with rpcb_users in rpcb_get_local()

>>

>> This helpers will be used for dynamical creation and destruction of rpcbind

>> clients.

>> Variable rpcb_users is actually a counter of lauched RPC services. If rpcbind

>> clients has been created already, then we just increase rpcb_users.

>>

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

>>

>> ---

>> net/sunrpc/rpcb_clnt.c | 54 ++

>> 1 files changed, 54 insertions(+), 0 deletions(-)

>>

>> diff --git a/net/sunrpc/rpcb_clnt.c b/net/sunrpc/rpcb_clnt.c

>> index e45d2fb..9fcd42 100644

>> --- a/net/sunrpc/rpcb_clnt.c

>> +++ b/net/sunrpc/rpcb_clnt.c

>> @@ -114,6 +114,9 @@ static struct rpc_program rpcb_program;

>> static struct rpc_clnt * rpcb_local_clnt;

>> static struct rpc_clnt * rpcb_local_clnt4;

>>

>> +DEFINE_SPINLOCK(rpcb_clnt_lock);

>> +unsigned int rpcb_users;

>> +

>> struct rpcbind_args {

>> struct rpc_xprt * r_xprt;

>>

>> @@ -161,6 +164,57 @@ static void rpcb_map_release(void *data)

>> kfree(map);

>> }

>>

>> +static int rpcb_get_local(void)

>> +{

>> + int cnt;

>> +

```

>> + spin_lock(&rpcb_clnt_lock);
>> + if (rpcb_users)
>> +   rpcb_users++;
>> + cnt = rpcb_users;
>> + spin_unlock(&rpcb_clnt_lock);
>> +
>> + return cnt;
>> +}
>> +
>> +void rpcb_put_local(void)
>> +{
>> + struct rpc_clnt *clnt = rpcb_local_clnt;
>> + struct rpc_clnt *clnt4 = rpcb_local_clnt4;
>> + int shutdown;
>> +
>> + spin_lock(&rpcb_clnt_lock);
>> + if (--rpcb_users == 0) {
>> +   rpcb_local_clnt = NULL;
>> +   rpcb_local_clnt4 = NULL;
>> + }
>> + shutdown = !rpcb_users;
>> + spin_unlock(&rpcb_clnt_lock);
>> +
>> + if (shutdown) {
>> +   /*
>> +    * cleanup_rpcb_clnt - remove xprtsock's sysctls, unregister
>> +    */
>> +   if (clnt4)
>> +     rpc_shutdown_client(clnt4);
>> +   if (clnt)
>> +     rpc_shutdown_client(clnt);
>> + }
>> + return;
>
> I'm removing this before applying...
>
Sorry, but I don't understand what exactly you are removing, and why?

>> +}
>> +
>

```

--

Best regards,
Stanislav Kinsbursky
