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

Posted by [Trond Myklebust](#) on Tue, 25 Oct 2011 11:16:09 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...

```

> +}
> +

```

--

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