
Subject: [PATCH 2/7] SUNRPC: register rpcbind programs in passed network namespace context

Posted by [Stanislav Kinsbursky](#) on Thu, 15 Dec 2011 16:01:18 GMT

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Registering rpcbind program requires rpcbind clients, which are per network namespace context.

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```
include/linux/sunrpc/clnt.h | 5 +++--
net/sunrpc/rpcb_clnt.c      | 8 +++++---
net/sunrpc/svc.c           | 10 ++++++-----
3 files changed, 12 insertions(+), 11 deletions(-)
```

```
diff --git a/include/linux/sunrpc/clnt.h b/include/linux/sunrpc/clnt.h
```

```
index 53afa56..1e56469 100644
```

```
--- a/include/linux/sunrpc/clnt.h
```

```
+++ b/include/linux/sunrpc/clnt.h
```

```
@@ -138,8 +138,9 @@ void rpc_task_release_client(struct rpc_task *);
```

```
int rpcb_create_local(void);
void rpcb_put_local(void);
-int rpcb_register(u32, u32, int, unsigned short);
-int rpcb_v4_register(const u32 program, const u32 version,
+int rpcb_register(struct net *, u32, u32, int, unsigned short);
+int rpcb_v4_register(struct net *net, const u32 program,
+    const u32 version,
+    const struct sockaddr *address,
+    const char *netid);
void rpcb_getport_async(struct rpc_task *);
```

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

```
index 43eff03..ea87b0c 100644
```

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

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

```
@@ -425,7 +425,7 @@ static int rpcb_register_call(struct rpc_clnt *clnt, struct rpc_message
*msg)
```

```
    * IN6ADDR_ANY (ie available for all AF_INET and AF_INET6
```

```
    * addresses).
```

```
    */
```

```
-int rpcb_register(u32 prog, u32 vers, int prot, unsigned short port)
```

```
+int rpcb_register(struct net *net, u32 prog, u32 vers, int prot, unsigned short port)
```

```
{
```

```
    struct rpcbind_args map = {
```

```
        .r_prog = prog,
```

```
@@ -436,7 +436,7 @@ int rpcb_register(u32 prog, u32 vers, int prot, unsigned short port)
```

```
    struct rpc_message msg = {
```

```

    .rpc_argp = &map,
};
- struct sunrpc_net *sn = net_generic(&init_net, sunrpc_net_id);
+ struct sunrpc_net *sn = net_generic(net, sunrpc_net_id);

dprintk("RPC:    %sregistering (%u, %u, %d, %u) with local "
"rpcbind\n", (port ? "" : "un"),
@@ -563,7 +563,7 @@ static int rpcb_unregister_all_protocols(struct sunrpc_net *sn,
* service on any IPv4 address, but not on IPv6. The latter
* advertises the service on all IPv4 and IPv6 addresses.
*/
-int rpcb_v4_register(const u32 program, const u32 version,
+int rpcb_v4_register(struct net *net, const u32 program, const u32 version,
    const struct sockaddr *address, const char *netid)
{
    struct rpcbind_args map = {
@@ -575,7 +575,7 @@ int rpcb_v4_register(const u32 program, const u32 version,
    struct rpc_message msg = {
        .rpc_argp = &map,
    };
- struct sunrpc_net *sn = net_generic(&init_net, sunrpc_net_id);
+ struct sunrpc_net *sn = net_generic(net, sunrpc_net_id);

    if (sn->rpcb_local_clnt4 == NULL)
        return -EPROTONOSUPPORT;
diff --git a/net/sunrpc/svc.c b/net/sunrpc/svc.c
index 6e03888..e9c42ad 100644
--- a/net/sunrpc/svc.c
+++ b/net/sunrpc/svc.c
@@ -813,7 +813,7 @@ static int __svc_rpcb_register4(const u32 program, const u32 version,
    return -ENOPROTOOPT;
}

- error = rpcb_v4_register(program, version,
+ error = rpcb_v4_register(&init_net, program, version,
    (const struct sockaddr *)&sin, netid);

/*
@@ -821,7 +821,7 @@ static int __svc_rpcb_register4(const u32 program, const u32 version,
* registration request with the legacy rpcbind v2 protocol.
*/
if (error == -EPROTONOSUPPORT)
- error = rpcb_register(program, version, protocol, port);
+ error = rpcb_register(&init_net, program, version, protocol, port);

    return error;
}
@@ -860,7 +860,7 @@ static int __svc_rpcb_register6(const u32 program, const u32 version,

```

```

    return -ENOPROTOOPT;
}

- error = rpcb_v4_register(program, version,
+ error = rpcb_v4_register(&init_net, program, version,
    (const struct sockaddr *)&sin6, netid);

/*
@@ -963,14 +963,14 @@ static void __svc_unregister(const u32 program, const u32 version,
{
    int error;

- error = rpcb_v4_register(program, version, NULL, "");
+ error = rpcb_v4_register(&init_net, program, version, NULL, "");

/*
 * User space didn't support rpcbind v4, so retry this
 * request with the legacy rpcbind v2 protocol.
 */
if (error == -EPROTONOSUPPORT)
- error = rpcb_register(program, version, 0, 0);
+ error = rpcb_register(&init_net, program, version, 0, 0);

dprintk("svc: %s(%sv%u), error %d\n",
    __func__, progname, version, error);

```
