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Subject: [PATCH 5/7] SUNRPC: pass network namespace to service registering routines

Posted by [Stanislav Kinsbursky](#) on Thu, 15 Dec 2011 16:01:22 GMT

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Lockd and NFSd services will handle requests from and to many network namespaces. And thus have to be registered and unregistered per network namespace.

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```
include/linux/sunrpc/svc.h | 2 +-
net/sunrpc/svc.c           | 42 ++++++-----
net/sunrpc/svcsock.c      | 3 +-
3 files changed, 26 insertions(+), 21 deletions(-)
```

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

```
index 35b37b1..d3563c2 100644
```

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

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

```
@@ -428,7 +428,7 @@ void    svc_destroy(struct svc_serv *);
```

```
int    svc_process(struct svc_rqst *);
```

```
int    bc_svc_process(struct svc_serv *, struct rpc_rqst *,
    struct svc_rqst *);
```

```
-int    svc_register(const struct svc_serv *, const int,
```

```
+int    svc_register(const struct svc_serv *, struct net *, const int,
    const unsigned short, const unsigned short);
```

```
void    svc_wake_up(struct svc_serv *);
```

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

```
index 03e9f04..137475a 100644
```

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

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

```
@@ -30,7 +30,7 @@
```

```
#define RPCDBG_FACILITY RPCDBG_SVCDSP
```

```
-static void svc_unregister(const struct svc_serv *serv);
```

```
+static void svc_unregister(const struct svc_serv *serv, struct net *net);
```

```
#define svc_serv_is_pooled(serv) ((serv)->sv_function)
```

```
@@ -375,13 +375,13 @@ static int svc_rpcb_setup(struct svc_serv *serv)
    return err;
```

```
/* Remove any stale portmap registrations */
```

```
- svc_unregister(serv);
```

```

+ svc_unregister(serv, &init_net);
  return 0;
}

void svc_rpcb_cleanup(struct svc_serv *serv)
{
- svc_unregister(serv);
+ svc_unregister(serv, &init_net);
  rpcb_put_local(&init_net);
}
EXPORT_SYMBOL_GPL(svc_rpcb_cleanup);
@@ -790,7 +790,8 @@ EXPORT_SYMBOL_GPL(svc_exit_thread);
  * Returns zero on success; a negative errno value is returned
  * if any error occurs.
  */
-static int __svc_rpcb_register4(const u32 program, const u32 version,
+static int __svc_rpcb_register4(struct net *net, const u32 program,
+  const u32 version,
    const unsigned short protocol,
    const unsigned short port)
{
@@ -813,7 +814,7 @@ static int __svc_rpcb_register4(const u32 program, const u32 version,
  return -ENOPROTOOPT;
}

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

/*
@@ -821,7 +822,7 @@ 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(&init_net, program, version, protocol, port);
+ error = rpcb_register(net, program, version, protocol, port);

  return error;
}
@@ -837,7 +838,8 @@ static int __svc_rpcb_register4(const u32 program, const u32 version,
  * Returns zero on success; a negative errno value is returned
  * if any error occurs.
  */
-static int __svc_rpcb_register6(const u32 program, const u32 version,
+static int __svc_rpcb_register6(struct net *net, const u32 program,
+  const u32 version,
    const unsigned short protocol,
    const unsigned short port)

```

```

{
@@ -860,7 +862,7 @@ static int __svc_rpcb_register6(const u32 program, const u32 version,
    return -ENOPROTOOPT;
}

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

/*
@@ -880,7 +882,7 @@ static int __svc_rpcb_register6(const u32 program, const u32 version,
 * Returns zero on success; a negative errno value is returned
 * if any error occurs.
 */
-static int __svc_register(const char *progname,
+static int __svc_register(struct net *net, const char *progname,
    const u32 program, const u32 version,
    const int family,
    const unsigned short protocol,
@@ -890,12 +892,12 @@ static int __svc_register(const char *progname,

    switch (family) {
    case PF_INET:
- error = __svc_rpcb_register4(program, version,
+ error = __svc_rpcb_register4(net, program, version,
        protocol, port);
        break;
#ifdef CONFIG_IPV6 || defined(CONFIG_IPV6_MODULE)
    case PF_INET6:
- error = __svc_rpcb_register6(program, version,
+ error = __svc_rpcb_register6(net, program, version,
        protocol, port);
#endif /* defined(CONFIG_IPV6) || defined(CONFIG_IPV6_MODULE) */
    }
@@ -909,14 +911,14 @@ static int __svc_register(const char *progname,
/**
 * svc_register - register an RPC service with the local portmapper
 * @serv: svc_serv struct for the service to register
+ * @net: net namespace for the service to register
 * @family: protocol family of service's listener socket
 * @proto: transport protocol number to advertise
 * @port: port to advertise
 *
 * Service is registered for any address in the passed-in protocol family
 */
-int svc_register(const struct svc_serv *serv, const int family,
-    const unsigned short proto, const unsigned short port)
+int svc_register(const struct svc_serv *serv, struct net *net,

```

```

+  const int family, const unsigned short proto,
+  const unsigned short port)
{
    struct svc_program *progp;
    unsigned int i;
@@ -941,7 +945,7 @@ int svc_register(const struct svc_serv *serv, const int family,
    if (progp->pg_vers[i]->vs_hidden)
        continue;

-  error = __svc_register(progp->pg_name, progp->pg_prog,
+  error = __svc_register(net, progp->pg_name, progp->pg_prog,
    i, family, proto, port);
    if (error < 0)
        break;
@@ -958,19 +962,19 @@ int svc_register(const struct svc_serv *serv, const int family,
    * any "inet6" entries anyway. So a PMAP_UNSET should be sufficient
    * in this case to clear all existing entries for [program, version].
    */
-static void __svc_unregister(const u32 program, const u32 version,
+static void __svc_unregister(struct net *net, const u32 program, const u32 version,
    const char *progrname)
{
    int error;

-  error = rpcb_v4_register(&init_net, program, version, NULL, "");
+  error = rpcb_v4_register(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(&init_net, program, version, 0, 0);
+  error = rpcb_register(net, program, version, 0, 0);

    dprintk("svc: %s(%sv%u), error %d\n",
        __func__, progrname, version, error);
@@ -984,7 +988,7 @@ static void __svc_unregister(const u32 program, const u32 version,
    * The result of unregistration is reported via dprintk for those who want
    * verification of the result, but is otherwise not important.
    */
-static void svc_unregister(const struct svc_serv *serv)
+static void svc_unregister(const struct svc_serv *serv, struct net *net)
{
    struct svc_program *progp;
    unsigned long flags;
@@ -1001,7 +1005,7 @@ static void svc_unregister(const struct svc_serv *serv)

```

```

    dprintk("svc: attempting to unregister %sv%\n",
        progp->pg_name, i);
-   __svc_unregister(progp->pg_prog, i, progp->pg_name);
+   __svc_unregister(net, progp->pg_prog, i, progp->pg_name);
}
}

diff --git a/net/sunrpc/svcsock.c b/net/sunrpc/svcsock.c
index 277909e..110735f 100644
--- a/net/sunrpc/svcsock.c
+++ b/net/sunrpc/svcsock.c
@@ -1409,7 +1409,8 @@ static struct svc_sock *svc_setup_socket(struct svc_serv *serv,

    /* Register socket with portmapper */
    if (*errp >= 0 && pmap_register)
-   *errp = svc_register(serv, inet->sk_family, inet->sk_protocol,
+   *errp = svc_register(serv, sock->sk->sk_net, inet->sk_family,
+   inet->sk_protocol,
        ntohs(inet_sk(inet)->inet_sport));

    if (*errp < 0) {

```

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