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Subject: [PATCH 1/3] SUNRPC: new svc\_bind() routine introduced  
Posted by Stanislav Kinsbursky on Wed, 25 Apr 2012 13:37:42 GMT  
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New routine is responsible for service registration in specified network context.

The idea is to separate service creation from per-net operations.

Signed-off-by: Stanislav Kinsbursky <[skinsbursky@parallels.com](mailto:skinsbursky@parallels.com)>

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```
fs/lockd/svc.c      |  6 ++++++
fs/nfs/callback.c   |  8 ++++++++
fs/nfsd/nfssvc.c    |  9 ++++++++
include/linux/sunrpc/svc.h |  1 +
net/sunrpc/svc.c    | 19 ++++++-----
5 files changed, 34 insertions(+), 9 deletions(-)
```

```
diff --git a/fs/lockd/svc.c b/fs/lockd/svc.c
index 1ead075..b7e92ed 100644
--- a/fs/lockd/svc.c
+++ b/fs/lockd/svc.c
@@ -324,6 +324,12 @@ int lockd_up(struct net *net)
        goto out;
}

+ error = svc_bind(serv, net);
+ if (error < 0) {
+     printk(KERN_WARNING "lockd_up: bind service failed\n");
+     goto destroy_and_out;
+ }
+
 error = make_socks(serv, net);
 if (error < 0)
     goto destroy_and_out;
diff --git a/fs/nfs/callback.c b/fs/nfs/callback.c
index eb95f50..26b38fb 100644
--- a/fs/nfs/callback.c
+++ b/fs/nfs/callback.c
@@ -17,6 +17,7 @@
 #include <linux/kthread.h>
 #include <linux/sunrpc/svcauth_gss.h>
 #include <linux/sunrpc/bc_xprt.h>
+#include <linux/nsproxy.h>

#include <net/inet_sock.h>

@@ -253,6 +254,7 @@ int nfs_callback_up(u32 minorversion, struct rpc_xprt *xprt)
```

```

char svc_name[12];
int ret = 0;
int minorversion_setup;
+ struct net *net = current->nsproxy->net_ns;

mutex_lock(&nfs_callback_mutex);
if (cb_info->users++ || cb_info->task != NULL) {
@@ -265,6 +267,12 @@ int nfs_callback_up(u32 minorversion, struct rpc_xprt *xprt)
    goto out_err;
}

+ ret = svc_bind(serv, net);
+ if (ret < 0) {
+   printk(KERN_WARNING "NFS: bind callback service failed\n");
+   goto out_err;
+
  minorversion_setup = nfs_minorversion_callback_svc_setup(minorversion,
    serv, xprt, &rqstp, &callback_svc);
  if (!minorversion_setup) {
diff --git a/fs/nfsd/nfssvc.c b/fs/nfsd/nfssvc.c
index cb4d51d..0762f3c 100644
--- a/fs/nfsd/nfssvc.c
+++ b/fs/nfsd/nfssvc.c
@@ -11,6 +11,7 @@
#include <linux/module.h>
#include <linux/fs_struct.h>
#include <linux/swap.h>
+#include <linux/nsproxy.h>

#include <linux/sunrpc/stats.h>
#include <linux/sunrpc/svcsock.h>
@@ -330,6 +331,8 @@ static int nfsd_get_default_max_blksize(void)

int nfsd_create_serv(void)
{
+ int error;
+
  WARN_ON(!mutex_is_locked(&nfsd_mutex));
  if (nfsd_serv) {
    svc_get(nfsd_serv);
@@ -343,6 +346,12 @@ int nfsd_create_serv(void)
    if (nfsd_serv == NULL)
      return -ENOMEM;

+ error = svc_bind(nfsd_serv, current->nsproxy->net_ns);
+ if (error < 0) {
+   svc_destroy(nfsd_serv);

```

```

+ return error;
+ }
+
set_max_drc();
do_gettimeofday(&nfssvc_boot); /* record boot time */
return 0;
diff --git a/include/linux/sunrpc/svc.h b/include/linux/sunrpc/svc.h
index 51b29ac..2b43e02 100644
--- a/include/linux/sunrpc/svc.h
+++ b/include/linux/sunrpc/svc.h
@@ -416,6 +416,7 @@ struct svc_procedure {
 */
int svc_rpcb_setup(struct svc_serv *serv, struct net *net);
void svc_rpcb_cleanup(struct svc_serv *serv, struct net *net);
+int svc_bind(struct svc_serv *serv, struct net *net);
struct svc_serv *svc_create(struct svc_program *, unsigned int,
    void (*shutdown)(struct svc_serv *, struct net *net));
struct svc_rqst *svc_prepare_thread(struct svc_serv *serv,
diff --git a/net/sunrpc/svc.c b/net/sunrpc/svc.c
index 4153846..e6d542c 100644
--- a/net/sunrpc/svc.c
+++ b/net/sunrpc/svc.c
@@ -407,6 +407,14 @@ static int svc_uses_rpcbind(struct svc_serv *serv)
    return 0;
}

+int svc_bind(struct svc_serv *serv, struct net *net)
+{
+ if (!svc_uses_rpcbind(serv))
+    return 0;
+ return svc_rpcb_setup(serv, net);
+}
EXPORT_SYMBOL_GPL(svc_bind);
+
/*
 * Create an RPC service
 */
@@ -471,15 +479,8 @@ __svc_create(struct svc_program *prog, unsigned int bufsize, int
npools,
    spin_lock_init(&pool->sp_lock);
}

- if (svc_uses_rpcbind(serv)) {
- if (svc_rpcb_setup(serv, current->nsproxy->net_ns) < 0) {
- kfree(serv->sv_pools);
- kfree(serv);
- return NULL;
- }

```

```
- if (!serv->sv_shutdown)
-   serv->sv_shutdown = svc_rpcb_cleanup;
- }
+ if (svc_uses_rpcbind(serv) && (!serv->sv_shutdown))
+   serv->sv_shutdown = svc_rpcb_cleanup;

return serv;
}
```

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