
Subject: [PATCH 3/6] LockD: service creation function introduced
Posted by [Stanislav Kinsbursky](#) on Wed, 25 Apr 2012 14:22:54 GMT
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This function creates service if it's not exist, or increase usage counter of the existent, and returns pointer to it.
Usage counter will be dropped by `svc_destroy()` later in `lockd_up()`.

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```
---
fs/lockd/svc.c | 38 ++++++-----
1 files changed, 27 insertions(+), 11 deletions(-)

diff --git a/fs/lockd/svc.c b/fs/lockd/svc.c
index 71c6c31..ad11ea7 100644
--- a/fs/lockd/svc.c
+++ b/fs/lockd/svc.c
@@ -291,21 +291,20 @@ static void lockd_down_net(struct svc_serv *serv, struct net *net)
 }
 }

-/*
- * Bring up the lockd process if it's not already up.
- */
-int lockd_up(struct net *net)
+static struct svc_serv *lockd_create_svc(void)
 {
     struct svc_serv *serv;
-    int error = 0;

-    mutex_lock(&nlmsvc_mutex);
-    /*
-     * Check whether we're already up and running.
-     */
-    if (nlmsvc_rqst) {
-        error = lockd_up_net(nlmsvc_rqst->rq_server, net);
-        goto out;
-    }
+    /*
+     * Note: increase service usage, because later in case of error
+     * svc_destroy() will be called.
+     */
+    svc_get(nlmsvc_rqst->rq_server);
+    return nlmsvc_rqst->rq_server;
 }

-/*
@@ -316,11 +315,10 @@ int lockd_up(struct net *net)
```

```

printk(KERN_WARNING
"lockd_up: no pid, %d users??\n", nlmsvc_users);

- error = -ENOMEM;
  serv = svc_create(&nlmsvc_program, LOCKD_BUFSIZE, NULL);
  if (!serv) {
    printk(KERN_WARNING "lockd_up: create service failed\n");
-   goto out;
+   return ERR_PTR(-ENOMEM);
+ }
+ return serv;
+}
+
+/*
+ * Bring up the lockd process if it's not already up.
+ */
+int lockd_up(struct net *net)
+{
+ struct svc_serv *serv;
+ int error = 0;
+
+ mutex_lock(&nlmsvc_mutex);
+
+ serv = lockd_create_svc();
+ if (IS_ERR(serv)) {
+ error = PTR_ERR(serv);
+ goto err_create;
+ }

  error = lockd_up_net(serv, net);
@@ -360,9 +376,9 @@ int lockd_up(struct net *net)
  */
err_net:
  svc_destroy(serv);
-out:
  if (!error)
    nlmsvc_users++;
+err_create:
  mutex_unlock(&nlmsvc_mutex);
  return error;

```
