
Subject: [PATCH v4 09/10] NFS: callback per-net usage counting introduced
Posted by [Stanislav Kinsbursky](#) on Mon, 20 Aug 2012 14:00:46 GMT
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This patch also introduces refcount-aware nfs_callback_down_net() wrapper for
svc_shutdown_net().

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```
---
fs/nfs/callback.c | 19 ++++++++-----
fs/nfs/netns.h    | 1 +
2 files changed, 18 insertions(+), 2 deletions(-)

diff --git a/fs/nfs/callback.c b/fs/nfs/callback.c
index baafa0f..6dfdc83 100644
--- a/fs/nfs/callback.c
+++ b/fs/nfs/callback.c
@@ -260,10 +260,25 @@ static int nfs_callback_start_svc(int minorversion, struct rpc_xprt *xprt,
    return 0;
}

+static void nfs_callback_down_net(u32 minorversion, struct svc_serv *serv, struct net *net)
+{
+ struct nfs_net *nn = net_generic(net, nfs_net_id);
+
+ if (--nn->cb_users[minorversion])
+ return;
+
+ dprintk("NFS: destroy per-net callback data; net=%p\n", net);
+ svc_shutdown_net(serv, net);
+}
+
static int nfs_callback_up_net(int minorversion, struct svc_serv *serv, struct net *net)
{
+ struct nfs_net *nn = net_generic(net, nfs_net_id);
    int ret;

    if (nn->cb_users[minorversion]++)
        return 0;

    dprintk("NFS: create per-net callback data; net=%p\n", net);

    ret = svc_bind(serv, net);
@@ -378,7 +393,7 @@ err_create:
    return ret;

err_start:
- svc_shutdown_net(serv, net);
```

```

+ nfs_callback_down_net(minorversion, serv, net);
  dprintk("NFS: Couldn't create server thread; err = %d\n", ret);
  goto err_net;
}
@@ -391,10 +406,10 @@ void nfs_callback_down(int minorversion, struct net *net)
  struct nfs_callback_data *cb_info = &nfs_callback_info[minorversion];

  mutex_lock(&nfs_callback_mutex);
+ nfs_callback_down_net(minorversion, cb_info->serv, net);
  cb_info->users--;
  if (cb_info->users == 0 && cb_info->task != NULL) {
    kthread_stop(cb_info->task);
- svc_shutdown_net(cb_info->serv, net);
    svc_exit_thread(cb_info->rqst);
    cb_info->serv = NULL;
    cb_info->rqst = NULL;
diff --git a/fs/nfs/netns.h b/fs/nfs/netns.h
index 137238b..b9c7f9b 100644
--- a/fs/nfs/netns.h
+++ b/fs/nfs/netns.h
@@ -24,6 +24,7 @@ struct nfs_net {
  struct idr cb_ident_idr; /* Protected by nfs_client_lock */
  unsigned short nfs_callback_tcpport;
  unsigned short nfs_callback_tcpport6;
+ int cb_users[NFS4_MAX_MINOR_VERSION + 1];
#ifdef
  spinlock_t nfs_client_lock;
  struct timespec boot_time;

```
