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Subject: [PATCH v2 09/12] NFS; callback per-net usage counting introduced  
Posted by [Stanislav Kinsbursky](#) on Tue, 22 May 2012 07:36:54 GMT  
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This patch also introduces refcount-aware `nfs_callback_down_net()` wrapper for `svc_shutdown_net()`.

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

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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 d25085f..dbedd7e 100644

--- a/fs/nfs/callback.c  
+++ b/fs/nfs/callback.c  
@@ -285,10 +285,25 @@ 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);  
@@ -391,7 +406,7 @@ err\_create:  
return ret;

err\_start:  
- svc\_shutdown\_net(serv, net);

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+ nfs_callback_down_net(minorversion, serv, net);
  dprintk("NFS: Couldn't create server thread; err = %d\n", ret);
  goto err_net;
}
@@ -404,10 +419,10 @@ 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 bd72a55..db3e495 100644
--- a/fs/nfs/netns.h
+++ b/fs/nfs/netns.h
@@ -20,6 +20,7 @@ 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];
#endif
  spinlock_t nfs_client_lock;
};

```

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