
Subject: [PATCH RFC 04/13] LockD: manage used host count per networks namespace

Posted by [Stanislav Kinsbursky](#) on Sat, 05 May 2012 17:22:01 GMT

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This patch introduces moves nrhosts in per-net data.

It also adds kernel warning to nlm_shutdown_hosts_net() about remaining hosts in specified network namespace context.

Signed-off-by: Stanislav Kinsbursky <skinsbursky@parallels.com>

fs/lockd/host.c | 18 ++++++

fs/lockd/netns.h | 1 +

2 files changed, 19 insertions(+), 0 deletions(-)

diff --git a/fs/lockd/host.c b/fs/lockd/host.c

index 3636734..6c56090 100644

--- a/fs/lockd/host.c

+++ b/fs/lockd/host.c

@@ -173,6 +173,7 @@ out:

static void nlm_destroy_host_locked(struct nlm_host *host)

{

struct rpc_clnt *clnt;

+ struct lockd_net *ln = net_generic(host->net, lockd_net_id);

dprintk("lockd: destroy host %s\n", host->h_name);

@@ -189,6 +190,7 @@ static void nlm_destroy_host_locked(struct nlm_host *host)

rpc_shutdown_client(clnt);

kfree(host);

+ ln->nrhosts--;

nrhosts--;

}

@@ -229,6 +231,7 @@ struct nlm_host *nlmclnt_lookup_host(const struct sockaddr *sap,

struct hlist_node *pos;

struct nlm_host *host;

struct nsm_handle *nsm = NULL;

+ struct lockd_net *ln = net_generic(net, lockd_net_id);

dprintk("lockd: %s(host='%s', vers=%u, proto=%s)\n", __func__,

(hostname ? hostname : "<none>"), version,

@@ -263,6 +266,7 @@ struct nlm_host *nlmclnt_lookup_host(const struct sockaddr *sap,

goto out;

hlist_add_head(&host->h_hash, chain);

+ ln->nrhosts++;

```

nrhosts++;

dprintk("lockd: %s created host %s (%s)\n", __func__,
@@ -384,6 +388,7 @@ struct nlm_host *nlmsvc_lookup_host(const struct svc_rqst *rqstp,
    memcpy(nlm_srcaddr(host), src_sap, src_len);
    host->h_srcaddrlen = src_len;
    hlist_add_head(&host->h_hash, chain);
+ ln->nrhosts++;
    nrhosts++;

dprintk("lockd: %s created host %s (%s)\n",
@@ -592,6 +597,19 @@ nlm_shutdown_hosts_net(struct net *net)
    /* Then, perform a garbage collection pass */
    nlm_gc_hosts(net);
    mutex_unlock(&nlm_host_mutex);
+
+ /* complain if any hosts are left */
+ if (net) {
+ struct lockd_net *ln = net_generic(net, lockd_net_id);
+
+ printk(KERN_WARNING "lockd: couldn't shutdown host module for net %p!\n", net);
+ dprintk("lockd: %lu hosts left in net %p:\n", ln->nrhosts, net);
+ for_each_host(host, pos, chain, nlm_server_hosts) {
+ dprintk("    %s (cnt %d use %d exp %ld net %p)\n",
+ host->h_name, atomic_read(&host->h_count),
+ host->h_inuse, host->h_expires, host->net);
+ }
+ }
+ }

/*
diff --git a/fs/lockd/netns.h b/fs/lockd/netns.h
index 97c6c77..44c8f0b 100644
--- a/fs/lockd/netns.h
+++ b/fs/lockd/netns.h
@@ -6,6 +6,7 @@
struct lockd_net {
    unsigned int nlmsvc_users;
    unsigned long next_gc;
+ unsigned long nrhosts;
};

extern int lockd_net_id;

```
