
Subject: [PATCH v2 02/15] LockD: make garbage collector network namespace aware.

Posted by [Stanislav Kinsbursky](#) on Wed, 25 Jul 2012 12:56:03 GMT

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fs/lockd/host.c | 22 ++++++++-----
1 files changed, 13 insertions(+), 9 deletions(-)

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

index 2c5f41b..991274a 100644

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

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

@@ -45,7 +45,7 @@ static unsigned long next_gc;
static unsigned long nrhosts;
static DEFINE_MUTEX(nlm_host_mutex);

-static void nlm_gc_hosts(void);

+static void nlm_gc_hosts(struct net *net);

struct nlm_lookup_host_info {

const int server; /* search for server|client */

@@ -345,7 +345,7 @@ struct nlm_host *nlmsvc_lookup_host(const struct svc_rqst *rqstp,
mutex_lock(&nlm_host_mutex);

if (time_after_eq(jiffies, next_gc))

- nlm_gc_hosts();

+ nlm_gc_hosts(net);

chain = &nlm_server_hosts[nlm_hash_address(ni.sap)];

hlist_for_each_entry(host, pos, chain, h_hash) {

@@ -588,7 +588,7 @@ nlm_shutdown_hosts_net(struct net *net)
}

/* Then, perform a garbage collection pass */

- nlm_gc_hosts();

+ nlm_gc_hosts(net);

mutex_unlock(&nlm_host_mutex);

}

@@ -623,27 +623,31 @@ nlm_shutdown_hosts(void)

* mark & sweep for resources held by remote clients.

*/

static void

-nlm_gc_hosts(void)

+nlm_gc_hosts(struct net *net)

{

struct hlist_head *chain;

```

    struct hlist_node *pos, *next;
    struct nlm_host *host;
- struct net *net = &init_net;

- dprintk("lockd: host garbage collection\n");
- for_each_host(host, pos, chain, nlm_server_hosts)
+ dprintk("lockd: host garbage collection for net %p\n", net);
+ for_each_host(host, pos, chain, nlm_server_hosts) {
+   if (net && host->net != net)
+     continue;
    host->h_inuse = 0;
+ }

/* Mark all hosts that hold locks, blocks or shares */
nlmsvc_mark_resources(net);

for_each_host_safe(host, pos, next, chain, nlm_server_hosts) {
+ if (net && host->net != net)
+   continue;
    if (atomic_read(&host->h_count) || host->h_inuse
        || time_before(jiffies, host->h_expires)) {
        dprintk("nlm_gc_hosts skipping %s "
-         "(cnt %d use %d exp %ld)\n",
+         "(cnt %d use %d exp %ld net %p)\n",
            host->h_name, atomic_read(&host->h_count),
-         host->h_inuse, host->h_expires);
+         host->h_inuse, host->h_expires, host->net);
        continue;
    }
    nlm_destroy_host_locked(host);

```
