
Subject: [PATCH RFC 02/13] LockD: make garbage collector network namespace aware.

Posted by [Stanislav Kinsbursky](#) on Sat, 05 May 2012 17:21:47 GMT

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Refresh of diff-lockd-make-hosts-garbage-collect-check-per-net

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);

```
