
Subject: [PATCH RFC 03/13] LockD: manage garbage collection timeout per networks namespace

Posted by [Stanislav Kinsbursky](#) on Sat, 05 May 2012 17:21:54 GMT

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This patch moves next_gc to per-net data.

Note: passed network can be NULL (when Lockd kthread is exiting of Lockd module is removing).

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

fs/lockd/host.c | 12 ++++++++---

fs/lockd/netns.h | 1 +

2 files changed, 10 insertions(+), 3 deletions(-)

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

index 991274a..3636734 100644

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

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

@@ -21,6 +21,8 @@

#include <net/ipv6.h>

+#include "netns.h"

+

#define NLMDBG_FACILITY NLMDBG_HOSTCACHE

#define NLM_HOST_NRHASH 32

#define NLM_HOST_REBIND (60 * HZ)

@@ -41,7 +43,6 @@ static struct hlist_head nlm_client_hosts[NLM_HOST_NRHASH];

hlist_for_each_entry_safe((host), (pos), (next), \n\n(chain), h_hash)

-static unsigned long next_gc;

static unsigned long nrhosts;

static DEFINE_MUTEX(nlm_host_mutex);

@@ -337,6 +338,7 @@ struct nlm_host *nlmsvc_lookup_host(const struct svc_rqst *rqstp,

.hostname_len = hostname_len,

.net = net,

};

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

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

(int)hostname_len, hostname, rqstp->rq_vers,

@@ -344,7 +346,7 @@ struct nlm_host *nlmsvc_lookup_host(const struct svc_rqst *rqstp,

mutex_lock(&nlm_host_mutex);

```

- if (time_after_eq(jiffies, next_gc))
+ if (time_after_eq(jiffies, ln->next_gc))
    nlm_gc_hosts(net);

    chain = &nlm_server_hosts[nlm_hash_address(ni.sap)];
@@ -653,5 +655,9 @@ nlm_gc_hosts(struct net *net)
    nlm_destroy_host_locked(host);
}

- next_gc = jiffies + NLM_HOST_COLLECT;
+ if (net) {
+ struct lockd_net *ln = net_generic(net, lockd_net_id);
+
+ ln->next_gc = jiffies + NLM_HOST_COLLECT;
+ }
}
diff --git a/fs/lockd/netns.h b/fs/lockd/netns.h
index ce227e0..97c6c77 100644
--- a/fs/lockd/netns.h
+++ b/fs/lockd/netns.h
@@ -5,6 +5,7 @@

struct lockd_net {
    unsigned int nlmsvc_users;
+ unsigned long next_gc;
};

extern int lockd_net_id;

```
