
Subject: [PATCH v2 03/15] LockD: manage garbage collection timeout per networks namespace

Posted by [Stanislav Kinsbursky](#) on Wed, 25 Jul 2012 12:56:11 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).

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```
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), \
    (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;

```
