
Subject: [PATCH v2 04/15] LockD: manage used host count per networks

namespace

Posted by Stanislav Kinsbursky on Wed, 25 Jul 2012 12:56:19 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.

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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_srcaddr = 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;

```
