
Subject: [PATCH RFC 00/13] Lockd: grace period containerization
Posted by [Stanislav Kinsbursky](#) on Sat, 05 May 2012 17:21:30 GMT
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This patch set is marked with RFC, because I'm still not quite sure, that this implementation will satisfy other interested people.
So, would be appreciated for any comments.

This patch set makes grace period and hosts reclaiming network namespace aware.

Main ideas:

1) moving of

```
unsigned long next_gc;  
unsigned long nrhosts;
```

```
struct delayed_work grace_period_end;  
struct lock_manager lockd_manager;  
struct list_head grace_list;
```

to per-net Lockd data.

2) moving of

```
struct lock_manager nfsd4_manager;
```

to per-net NFSd data.

3) shutdown + gc of NLM hosts done now network namespace aware.

4) restart_grace() now works only for init_net.

The following series implements...

Stanislav Kinsbursky (13):

- LockD: mark host per network namespace on garbage collect
- LockD: make garbage collector network namespace aware.
- LockD: manage garbage collection timeout per networks namespace
- LockD: manage used host count per networks namespace
- Lockd: host complaining function introduced
- Lockd: add more debug to host shutdown functions
- LockD: manage grace period per network namespace
- LockD: make lockd manager allocated per network namespace
- NFSd: make nfsd4_manager allocated per network namespace context.
- SUNRPC: service request network namespace helper introduced

LockD: manage grace list per network namespace
LockD: pass actual network namespace to grace period management functions
Lockd: move grace period management from lockd() to per-net functions

```
fs/lockd/grace.c      | 16 +++++--
fs/lockd/host.c       | 92 ++++++-----
fs/lockd/netns.h      | 7 +++
fs/lockd/svc.c        | 43 ++++++-----
fs/lockd/svc4proc.c   | 13 +++--
fs/lockd/svclock.c    | 16 +++++--
fs/lockd/svcproc.c    | 15 +++++--
fs/lockd/svcsubs.c    | 19 +++++--
fs/nfs/callback_xdr.c | 4 +-
fs/nfsd/export.c      | 4 +-
fs/nfsd/netns.h       | 2 +
fs/nfsd/nfs4idmap.c   | 4 +-
fs/nfsd/nfs4proc.c    | 18 +++++--
fs/nfsd/nfs4state.c   | 60 ++++++-----
fs/nfsd/state.h       | 3 +
include/linux/fs.h     | 5 +-
include/linux/lockd/lockd.h | 6 +--
include/linux/sunrpc/svc.h | 2 +
18 files changed, 204 insertions(+), 125 deletions(-)
```
