Subject: Re: [PATCH v2 00/15] Lockd: grace period containerization
Posted by bfields on Fri, 27 Jul 2012 21:54:31 GMT
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On Wed, Jul 25, 2012 at 04:55:45PM +0400, Stanislav Kinsbursky wrote:
> Bruce, I feel this patch set is ready for inclusion.
>
> v2:
> 1) Rebase on Bruce's "for-3.6" branch.
>
> This patch set makes grace period and hosts reclaiming network namespace
> aware.

On a quick skim--yes, that looks reasonable to me.

It doesn't help with active/active cluster exports, because in that case
we need some additional coordination between nfsd's.

But it looks good enough to handle the case where each filesystem is
exported from at most one server at a time, which is more than we
currently handle.

It's a little late for 3.6. Also I get the impression Al Viro has some
lockd rework in progress, which we may want to wait for.

So I'll likely look again into queueing this up for 3.7 once 3.6-rc1 is
out.

--b.

>
> 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 (15):
>   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
>   NFSd: make grace end flag per network namespace
>   NFSd: make boot_time variable per network namespace
>
>
> 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 | 4 ++
> fs/nfsd/nfs4idmap.c | 4 +-
> fs/nfsd/nfs4proc.c | 18 ++++---
> fs/nfsd/nfs4state.c | 104 +++++++++++++++++++++++++++++-------------------
> fs/nfsd/state.h | 4 +-
> include/linux/fs.h | 5 +-
> include/linux/lockd/lockd.h | 6 +-
> include/linux/sunrpc/svc.h | 2 +
> 18 files changed, 231 insertions(+), 145 deletions(-)
>