NFSv4 Migration
Document Status

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Nfsv4 Working Group meeting at IETF88
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To be Discussed

• [draft-ietf-nfsv4-rfc3530-migration-update](#)
• [draft-ietf-nfsv4-rfc5661-migration-update](#)
  – Note: TBD
• [draft-ietf-nfsv4-migration-issues](#)

• Migration implementation work
  – For NFSv4.0, considerable work done
    • Chuck Lever’s presentation will cover
  – NFSv4.1 just starting
• Addressed issue of NFS4ERR_DELAY and RELEASE_LOCKOWNER
  – Return allowed for migration
  – Restrictions to address client compatibility
• RECOMMENDATION for FS-grace if no TSM
  – If neither, lock loss problem
• Updated discussion of clientid-related errors
• Reworked discussion of owner-based info
  – Should reduce need for testing individual stateids
Future Revisions

• Needed for future revisions
  – Clarifications
  – Other changes prompted by wg discussion
  – Issues which arise from implementation experience
  – Change so we update rfc3530bis RFC (and not 3530)
    • Probably need to wait for rfc3530bis approval

• Looking for WG last call around IETF89
• Work on draft starting now
  – Needed since implementation work is starting.
  • Want to hear about people’s needs in this area
• Comparison with v4.0 document:
  – Client-id string approaches (no need in v4.1)
  = Lease-merger needed also
+ Need to address pNFS-related issues
+ Co-ordination with locations_info stuff
? Other v4.1-related areas people are interested in
Stateid issues for v4.1 migration

• V4.1 stateids are qualified by clientid
  – Effective stateid space is bigger than in v4.0 😊
• Trying to separately assign stateids of a per-fs basis
  – Tempting but it runs into trouble 😞
  – Problem with FREE_STATEID and TEST_STATEID
    • No way to specify the fh
    • Hard to change at this point, even if, in retrospect, it’s a mistake
    • Better extension mechanism would help.
draft-ietf-nfsv4-migration-issues-04

• Explanation of issues and choices in this area
  – Covers both minor versions
    • Pretty complete coverage of v4.0
    • Treatment of v4.1 is more limited right now

• Recent change in -04
  – Mention option for SETCLIENTID_PLUS

• Document future
  – Will update to reflect any issues found in doing rfc5661 migration update
  – May eventually publish as informational RFC