Rfc5661bis Effort

Goals, Status, Future Expectations

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Nfsv4 wg meeting within IETF111
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Overview

• Goals

• Discussion of Documents
  • draft-ietf-nfsv4-internationalization
  • draft-dnoveck-nfsv4-security-00 (overview, details in later talk)
  • draft-dnoveck-nfsv4-rfc5661bis-base-02
  • draft-dnoveck-nfsv4-rfc5661bis-01 (soon)

• Path going forward
Goals
Cleanup

• General cleanup
  • Address pending errata reports
    • Including some previously rejected, if the working group consensus has changed since rfc5661 approval and compatibility issues are addressed.
  • Opportunity to address similar mistakes for which there are no errata reports.
    • Window on that will probably close soon

• Reconsideration of choices regarding RFC2119 keywords
  • MUSTs that are not followed.
  • Non-actionable SHOULDs and MUSTs
  • Should’s and must’s that need to be capitalized
Goals

Organizational changes

• Adapt to use of nfsv4-wide documents (and produce them)
  • Minor versioning (refer to rfc8178)
  • Internationalization (WG document adopted)
• Security
  • Time for a BIG change in this area.
  • Have a very early I-D to start with.

• Get away from 600-page documents (by splitting them up)
  • New document suite will include introductory document, XDR document, separate discussion and reference documents, overall pNFS document, multi-server namespace document, etc.
Motivation

• Internationalization in rfc5661 was never implemented.
• V4.1 implementations followed rfc7530
• Original goal was to update rfc7530 and apply it to all of NFSv4.
• Unfortunately ...
  • IDNA conflicts made the update non-trivial
  • Nico W. pointed out that rfc7530 did not deal with the case-insensitive case and that canonical equivalence is Unicode-version-specific. Sigh!
draft-ietf-nfsv4-internationalization

Current Status

• WG document
  • Very little discussion due to lack of working group interest or expertise in the area
  • Existing implementations, originally based on RFC3010 approach are satisfactory to implementors and users, so there is little implementer motivation to change the situation.

• Still, there is a need to get to WGLC somehow.
  • We need a document that is consistent with existing implementations and addresses issues in rfc7530.
Path forward to WGLC

• Will need to rely on expertise outside the working group.
  • Does anyone know of someone suitable?
    • Has to know about internationalization.
    • Has to realize that file system’s needs are different from those of applications.
    • Is prepared to be helpful in meeting our needs.

• Will need review by internationalization directorate.
  • Had a review by Nico W. that wasn’t very helpful
  • That won’t be repeated but I’m not sure a suitable reviewer exists.
draft-dnoveck-nfsv4-security-00

Overview

• Very preliminary I-D submitted by deadline.
  • Lots of issues require working group input to resolve.
  • Lots of sections need to be done or elaborated in a later draft.

• Details will be addressed in a later talk, but ...
  • Will be looking for a more complete I-D in around a month.
  • Will need substantial work to go from there to WGLC.
  • Working group input is crucial
    • Will primarily be on the mailing list.
    • Some design discussions may be needed.
draft-dnoveck-nfsv4-rfc5661bis-base-02

Document suite baseline

- -01 expired
- -02 replaces it without change
- Will probably be allowed to expire next time
  - Not so useful for comparison once the bis document is split up
draft-dnoveck-nfsv4-rfc5661bis
Current Status

• -00 has expired.
• -01 not done by deadline
  • Will be submitted ASAP
  • Will adapt to publication of draft-dnoveck-nfsv4-security-00
  • Not doing anything else.
draft-dnoveck-nfsv4-rfc5661bis
What is yet to be done, beyond -01

• Need to complete errata.
  • Not so many left 😊
  • But those are the hardest ones 😞

• Need to focus on document split-up
  • Interdocument references are a big issue
  • Will be looking at automating the process.

• Looking for initial submission by IETF112
  • pNFS document likely to be a laggard
Steps going forward
No milestones, yet.

• Will initially focus on the NFSv4-wide documents to WGLC.
• Next focus is the document split-up
• Will have about six documents that need editors.
  • Will be looking for volunteers
  • Most are not all that difficult
  • Draft-ietf-nfsv4-rfc5661bis-discussion and draft-ietf-nfsv4-rfc5661bis-pns are possible exceptions.
• A bug part of the effort will be document review.
  • Asking for everybody’s help.