

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.

draft-ietf-nfsv4-internationalization

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.

draft-ietf-nfsv4-internationalization

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 by next week.
 - Will adapt to publication of draft-dnoveck-nfsv4-security-00.
 - Not doing much 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-pnfs are possible exceptions.
- A big part of the effort will be document review.
 - Asking for everybody's help.