Directory Delegations and Notifications

IETF NFSv4 WG meeting

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Overview

- Changes from the last draft
  - draft-ietf-nfsv4-directory-delegation-00.txt
- Issues raised
- Outstanding issues and resolutions, if any

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Changes already in draft-ietf-nfsv4-directory-delegation-00.txt

- Made a working group draft

- Changes to GET_DIR_DELEGATION operation
    - File and directory attributes not needed in the input arguments. Already convered by attr_notice

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Other issues raised

- Clarification: Delegation will be recalled when the directory changes in a way not covered by a notification or when notifications are not requested.

- Changes to CB_NOTIFY callback
  - Rename `DIR_NOTIFICATION_CHANGE_FILE_ATTRIBUTE` to `DIR_NOTIFICATION_CHANGE_CHILDERN_ATTRIBUTES`
  - Child attribute changes do not affect directory attributes. Update `DIR_NOTIFICATION_CHANGE_CHILDERN_ATTRIBUTES`.
  - Fix prev_entry4 being used as a struct and union.

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Issues (cont'd)

- Why is fattr required in dir_entry for Rename, Remove and Add notifications

  - if link count changes

- Why is fattr required in GET_DIR_DELEGATION response

  - If the server supports attribute notifications, it will return the attributes as part of the response. However since notifications are not supported on all attributes, this is not very useful.

- DIR_NOTIFICATION_CHANGE_CHILDERN_ATTRIBUTES covers only the immediate children.

Outstanding Issues

- Use of asynchronous vs. synchronous notifications
- Attribute notifications as part of directory notifications
  - Readdirs with attributes; ls -l
- Dependency of directory delegations on sessions.

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Directory delegation draft:

draft-khan-nfsv4-directory-delegation-00.txt