## Reporting of Errors via LAYOUTRETURN in NFSv4.2

IETF 116, NFSv4 WG

## Overview

- During file recovery client lacks granularity to specify which mirrors are safe
- Or lacks granularity to specify which mirrors are broken
- Has to not recover file
- MDS has to:
  - Assume all mirrors are broken
  - Pick a subset to resilver file

## LAYOUTRETURN with all 0 anonymous stateid

- "Simple" extension to semantics of LAYOUTRETURN allows client granularity to define broken mirrors
- NFSv4.1 or NFSv4.2 which does not support new feature just does not send it in a compound
- NFSv4.1 or NFSv4.2 MDS which does not support it would return NFS4ERR\_BAD\_STATEID

## History

- Introduced in IETF 114 to bring into draft-ietf-nfsv4-delstid
- Decided not to pollute (nor halt) that draft
- Submitted draft-haynes-nfsv4-layrec
- Looking for becoming a WG document