

# NFSv4 ACLs

Recent proposals and their impact on minorversion I  
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# Our Goals for ACLs in minorversion 1

- Clarification of the semantics of ACLs as introduced in RFC 3530
- Compatibility with NFSv4 clients
  - v4.0 clients just as capable as v4.1
- ACL attribute is the authority for security
  - Nothing outside the ACL defines permissions
- Have predictable, reliable behavior when modes interact with ACLs

# ACL Model in Current minorversion1 Draft

- First introduced late last year as draft-ietf-falkner-acl-00.txt
- Currently in minorversion1 draft
- Implemented in Solaris 10 Update 2 and Solaris Express

# New Proposal

- Proposed by Andreas Gruenbacher
- Not yet fully specified
- Not yet implemented
- But a prototype is promised

# Key Differences

- POSIX requires a concept of a mask
  - Current proposal uses existing file attributes (DENY ACEs in ACLs)
  - Andreas' proposal would use new file attributes
- Need to come to consensus on POSIX categorization
  - e.g. alternate vs. additional file access controls, etc.

# Goals

- ACL summit, possibly in person
  - Possibly at Bakeathon, preferably earlier
- Attain rough consensus on these questions
  - Is the current proposal acceptable?
  - Is Andreas' proposal acceptable?
  - If both are acceptable, is one sufficiently better to displace the other?
- Report back to NFSv4 WG ASAP