

# NFSv4 Replication and Migration

- Since IETF53:
  - More design team meetings:
    - 3<sup>rd</sup> party control out of scope – user control should be via SNMP or CIM/WBEM
    - FS subsets out of scope - server can change fsid/fh for file tree
    - Kept lock state transfer, sparse extents in scope (for now)
    - Talked about how to express attributes (profiles)
  - Have an Internet Draft:  
<http://www.ietf.org/internet-drafts/draft-thurlow-nfsv4-repl-mig-design-00.txt>
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# Replication/Migration issues

- Open issues:
  - Do we need per-message security, or is TLS enough?
  - Compression – do we need this? Prior IETF work includes VCDIFF (RFC 3284), plus various takes on IP payload compression (RFCs 2394, 2395, 3051, 3173).
  - Other bandwidth reduction ideas, e.g. Duplicate block recognition.
  - Base NFSv4 protocol changes
    - Could do better migration referral by letting client know what was negotiated.