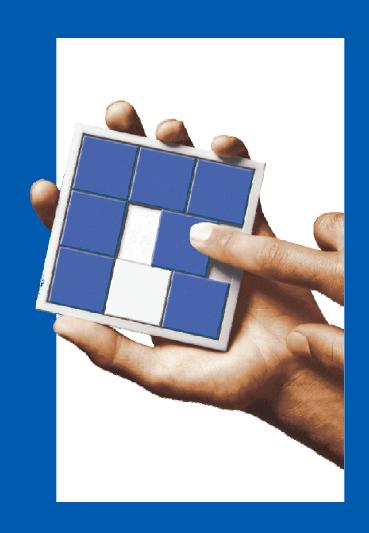


Go further, faster™

NFSv4.1 Trunked Hosts Discovery

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- pNFS provisions for multipathing
 - GETDEVICEINFO provides for list of servers on the same
- However, Vanilla NFSv4.1 does not
- Trunking is the second best feature of NFSv4.1
- Could provide huge performance benefit for servers with multi-homed configuration
- Today, explicit configuration is needed



Problem (Cont'd)

- Today, explicit configuration is needed
- Servers know what IP's can be trunked
 - Policies
 - Etc.,
- Servers know how they could be trunked
 - ClientId Trunking
 - Session Trunking
 - Connection Trunking
- However, user has to explicitly provision clients to mount those IP's
 - As cluster grows bigger, becomes a complex manageability problem



Proposal

- Obviously, a new FS attribute for hinting alternate trunked hosts for each filesystem
- But, fs_locations_info4 has a similar purpose
 - Points to alternate locations
- fs_locations_info4 needs to be extended to hint trunking relationships
 - An explicit tag of TRUNKED would tell clients to start using the addresses immediately
- Have a general idea of changes
- If there is enough interest, personal draft will be provided