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Linux FedFS Road Map

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Road Map Overview

- Terminology
- Development priorities
- Feature schedule



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FedFS Terminology

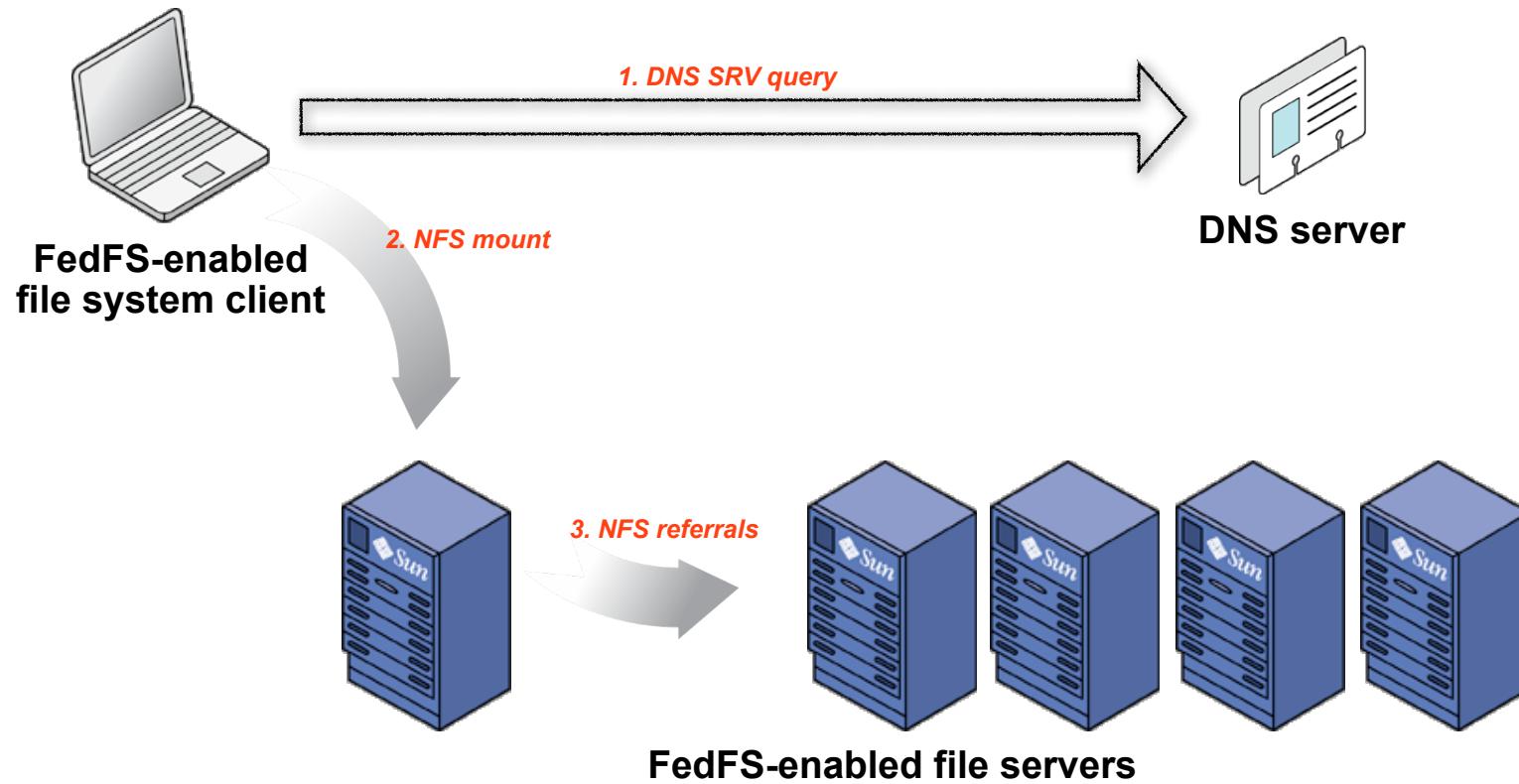


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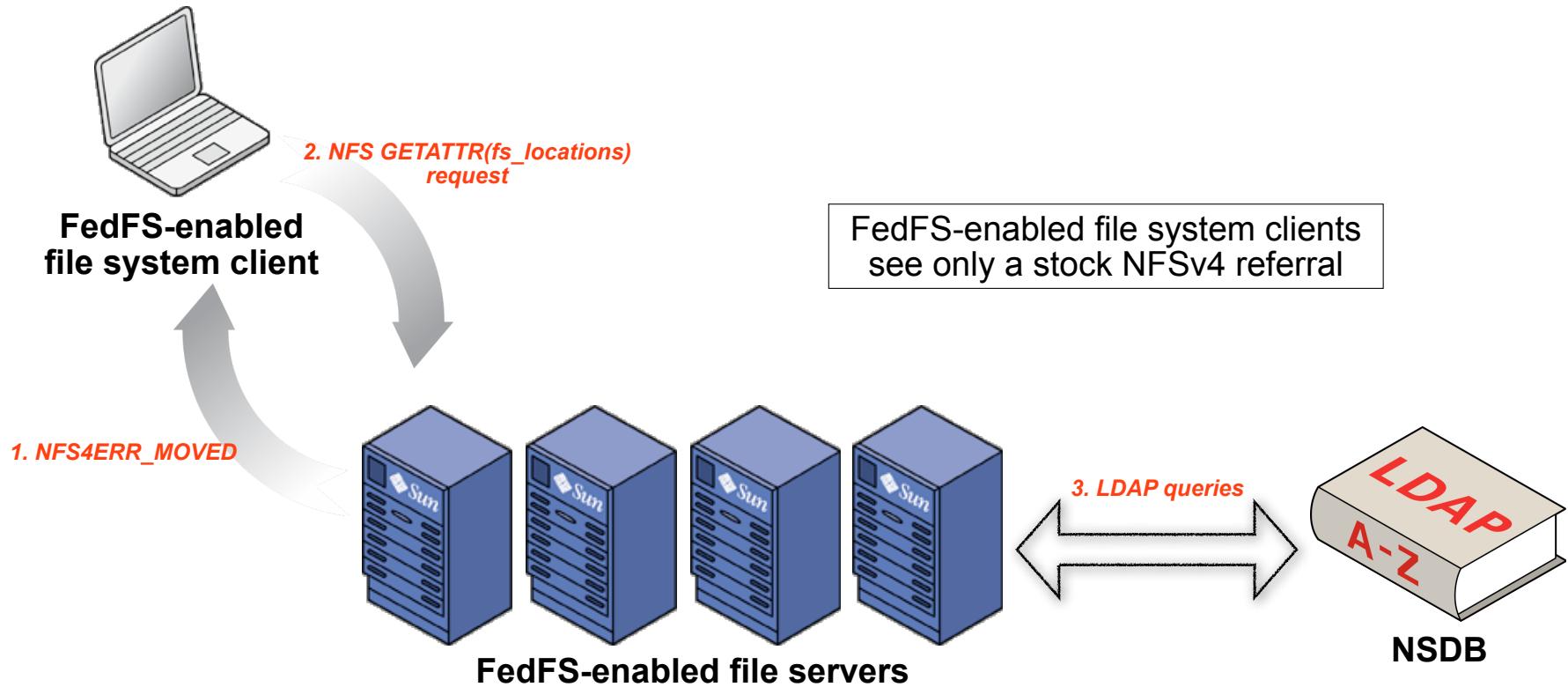
FedFS Host Roles

- FedFS-enabled file system client
- FedFS-enabled file server
- FedFS administrator
- NSDB
- DNS

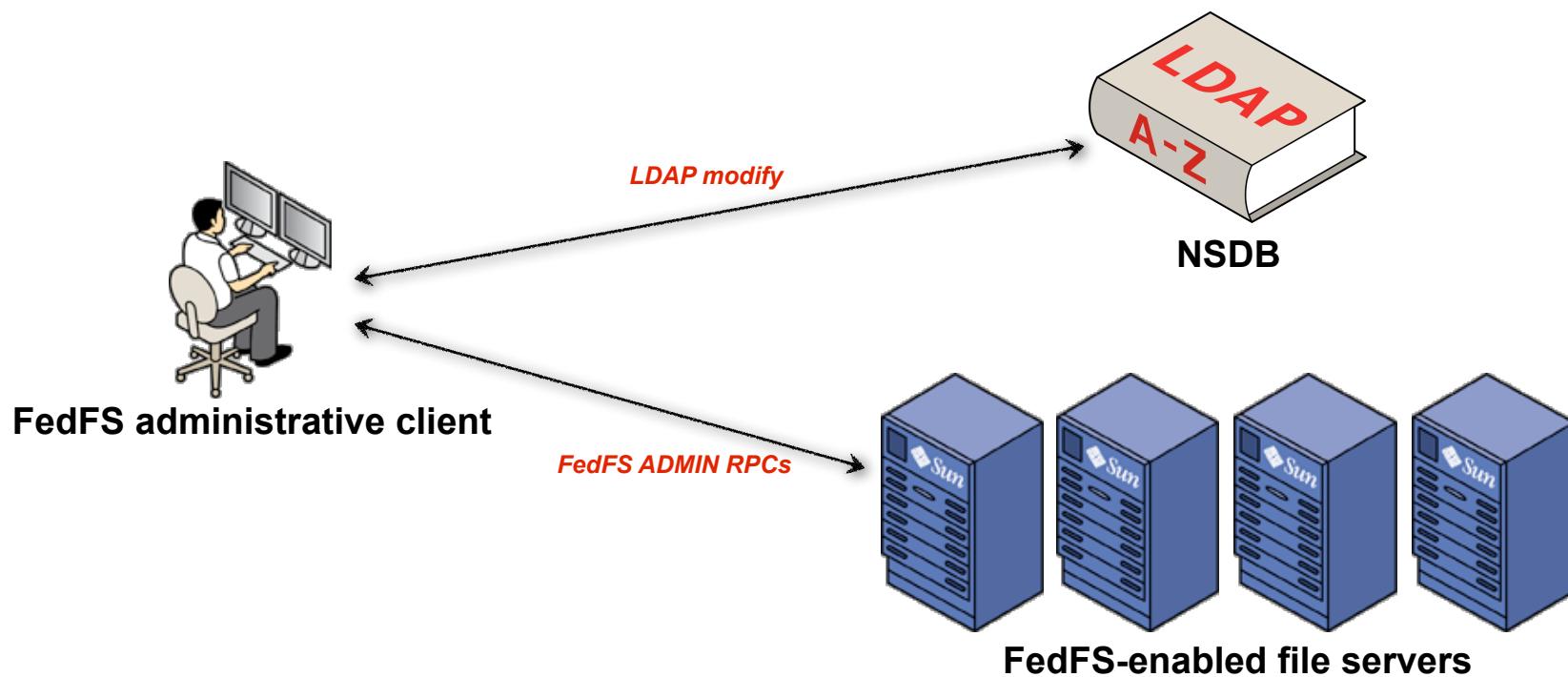
FedFS Operation - Mount



FedFS Operation - Junctions



FedFS Operation - Administration



FedFS Development Priorities



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Philosophical Goals

- Near Term
 - Finish drafts and prototypes
 - Robust and stable file system client first
 - Simple administration
 - Documentation
- Longer Term
 - Security
 - GUI

Basic Administrative Tools

- NSDB connection parameter database
- Simple FedFS ADMIN and NDSB administrative clients
- rpc.fedfsd

FedFS File System Client

- autofs program map
- mount.fedfs
- man pages

File Server Features

- Server junction management tools
 - nfsref CLI
 - Local and FedFS junctions (to replace referrals via /etc/exports)
- rpc.mountd changes
 - Dynamic library API for resolving junctions in nfs-utils
 - DLL junction resolution library implementation in fedfs-utils

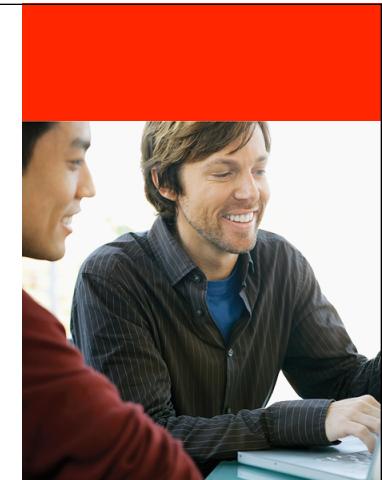
Advanced Capabilities

- LDAP server authentication and transport layer security
- RPCSEC GSS for FedFS ADMIN protocol
- Asynchronous API for NSDB client library
- GUI admin tools
- CIFS support

Collateral Requirements

- NFSD support for junction resolution
- NFSD support for `fs_locations_info`
- NFS client support for `fs_locations_info`
- FedFS schema added to major LDAP server distributions
- “`fedfs`” RPC service listed in `/etc/rpc`

FedFS Feature Schedule



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Hand-Wavy Feature Schedule

VERSION AND APPROX. RELEASE DATE	FEATURE SET
• 0.6.0 (April 2011)	• Basic administrative tools
• 0.7.0 (August 2011)	• Finalized FS client
• 0.8.0 (November 2011)	• Server features prototyped
• 0.9.0 (Spring 2012)	• Server features finalized
• 1.0.0 (Summer 2012)	• Advanced features prototyped

Q&A

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Hardware and Software

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Engineered to Work Together

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