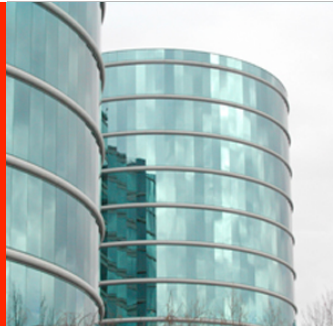


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## **Linux fedfs-utils 0.8**

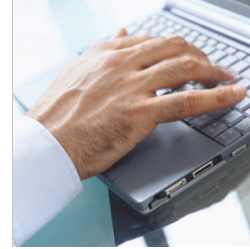
Chuck Lever  
Consulting Member of Technical Staff



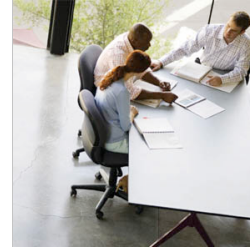
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# Today's Talk

- Terminology
- Package contents
- Roadmap
- Demonstration
- Questions



# Terminology



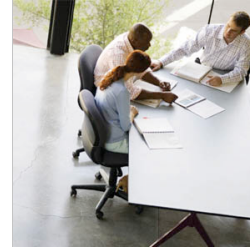
# Terminology

- System roles
  - FedFS-enabled server
  - FedFS-enabled client
  - FedFS administrative host
  - NSDB

# Terminology

- Domain root directory
  - Located via DNS SRV record
- Finding file data
  - Fileset Name - a collection of fileset locations
  - Fileset Location - a single physical instance of a fileset
- Connecting filesets to a namespace
  - FedFS junction
  - NFS basic junction

# Package Contents



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## fedfs-utils Manifest

- FedFS-enabled file server
  - Junction resolution library for mountd
  - nfsref
  - rpc.fedfsd
  - nsdbparams
- FedFS-enabled filesystem client
  - autofs program map
  - mount.fedfs (optional)

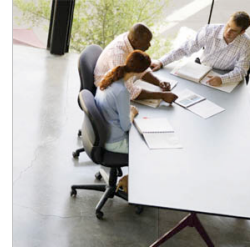
## fedfs-utils Manifest

- FedFS administrative host
  - nsdbparams
  - nsdbc clients
  - fedfsc clients
- NSDB
  - LDAP server
  - FedFS schema

## Minimum Effective Dose

- Managing NFS referrals with NFS basic junctions
  - Latest mountd with junction support (nfs-utils-1.2.5)
  - Junction resolution library (fedfs-utils-0.8.0)
  - The nfsref command (fedfs-utils-0.8.0)
  - Linux 3.2 kernel

# Roadmap



## 0.9 (3Q 2012)

### *Alpha Quality*

- Support for new DNS SRV standard
- Support for TLS and NSDB authentication
- Follow LDAP referrals during junction resolution
- FedFS schema refresh
- Improve check-in testing

## 0.10 (1Q 2013)

### *Beta Quality*

- RPCSEC GSSAPI support for rpc.fedfsd and ADMIN clients
- ADMIN protocol support in nsdbparams command
- Support NFS relative pathnames
- Server-side fs\_locations\_info prototype

## 1.0 (3Q 2013)

### *Production-Ready*

- Prototype high-level FedFS domain administration tool
- `fs_locations_info` support in NFS client
- Asynchronous NSDB client API

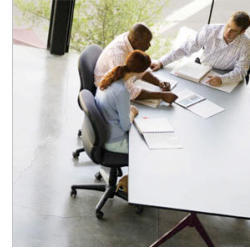
## 1.1 (1Q 2014)

### *Production-Ready*

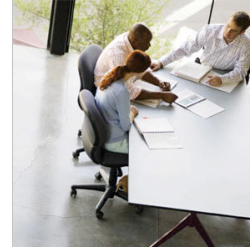
- Support FEDFS\_{CREATE,DELETE}\_REPLICATION
- Multi-threaded rpc.fedfsd
- First crack at language support
- libnsdb.a API standard



# Demonstration



# Questions





## For More Information

[http://wiki.linux-nfs.org/wiki/index.php/  
FedFsUtilsProject](http://wiki.linux-nfs.org/wiki/index.php/FedFsUtilsProject)



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