What's New in OpenLDAP

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OpenLDAP Project

- Open source code project
- Founded 1998
- Three core team members
- A dozen or so contributors
- Feature releases every 12-18 months
- Maintenance releases as needed

A Word About Symas

- Founded 1999
- Founders from Enterprise Software world
  - *platinum* Technology (Locus Computing)
  - IBM
- Howard joined OpenLDAP in 1999
  - One of the Core Team members
  - Appointed Chief Architect January 2007
- No debt, no VC investments: self-funded

Intro

- Howard Chu
  - Founder and CTO Symas Corp.
  - Developing Free/Open Source software since 1980s
    - GNU compiler toolchain, e.g. "gmake -j", etc.
    - Many other projects...
  - Worked for NASA/JPL, wrote software for Space Shuttle, etc.

Topics

(1) Recent Releases

(2) New Features in 2.7

(3) Work In Progress

(1) Recent Releases

- 2.6 Release Winding Down
  - Feature frozen, bugfix only
  - 7 releases in the past 2 years
    - 3 in past 3 months
    - Mostly obscure bug fixes
    - 41 AI-generated reports this year
    - 50 ordinary reports

(2) New in 2.7

- libldap enhancements
- Back-mdb enhancements
- New access control features
- Overlay enhancements
- lloadd enhancements

New in 2.7

- libldap enhancements
  - DNS SRV support for ldaps
  - Support for TPM chips, smartcards, etc
  - Support for the mbedTLS library
  - Other miscellaneous enhancements

New in 2.7

- back-mdb enhancements
  - Now using LMDB 1.0 with support for page-level encryption and/or checksums
  - Configurable page size up to 64KB
  - Longer key sizes for longer RDNs and multival values

New in 2.7

- LMDB 1.0 enhancements
  - Page-level encryption and/or checksums
  - Incremental backup
  - DB storage on raw devices
  - 2-phase commit
  - Configurable page sizes up to 64KB
  - Multiple read-only child txns for a write txn

New in 2.7

- New Access Control features
  - Explicit “increment” permission for ACLs
  - ACLs for controls and extended operations

New in 2.7

- overlay enhancements
  - Ppolicy
    - support for dynamic policy selection
    - Per-policy default password hashes
    - Rehash passwords on simple bind
  - OTP supports Compare operation

New in 2.7

- lloadd enhancements
  - Runtime reconfiguration of listen feature
  - Explicit enable/disable keywords for features

New in 2.7

- Other enhancements
  - More syncrepl STATS logging
  - 64bit index hashes by default instead of 32bit

Deprecated in 2.7

- GnuTLS
  - Will be removed in 2.8

Removed in 2.7

- back-perl
  - Use back-sock instead
- back-sql
  - If someone volunteers to maintain it, could be restored

Future Work

- LMDB 1.1
  - Recno support
- Standalone LDAP data model library
  - Like SQLite, but LDAP model, on top of LMDB
- Miscellaneous slapd modules

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