

Open-Source LDAP Training Material

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Existing, Tested Material

- LDAP/X.500 training since mid-1990s
 - LDAP Basics (half day)
 - LDAP for Linux authz/authc (half day)
 - OpenLDAP admin (3-days)
 - 389 admin basics (3 half-days)
 - IBM Directory Integrator (3 days)
- Printed course books
- Can be taught remotely

Practical Exercises

- Linux virtual machines
 - Originally on VMware, now AWS
 - Most based on OpenLDAP
- Detailed exercise instructions
- Some open-ended exercises

A Course Kit

- Slides and notes (.ods → .pdf)
- Exercise Guide (.odt → .pdf)
- Cover artwork for booklet (.sla → .pdf)
- Exercise files (.tgz)
- Machine image

How to Publish?

- The old way: tar file on an FTP server
 - Handles every format
 - Little chance of useful collaboration
- The new way: Public code repository
 - Good for feedback and teamwork
 - Variable support for non-text sources

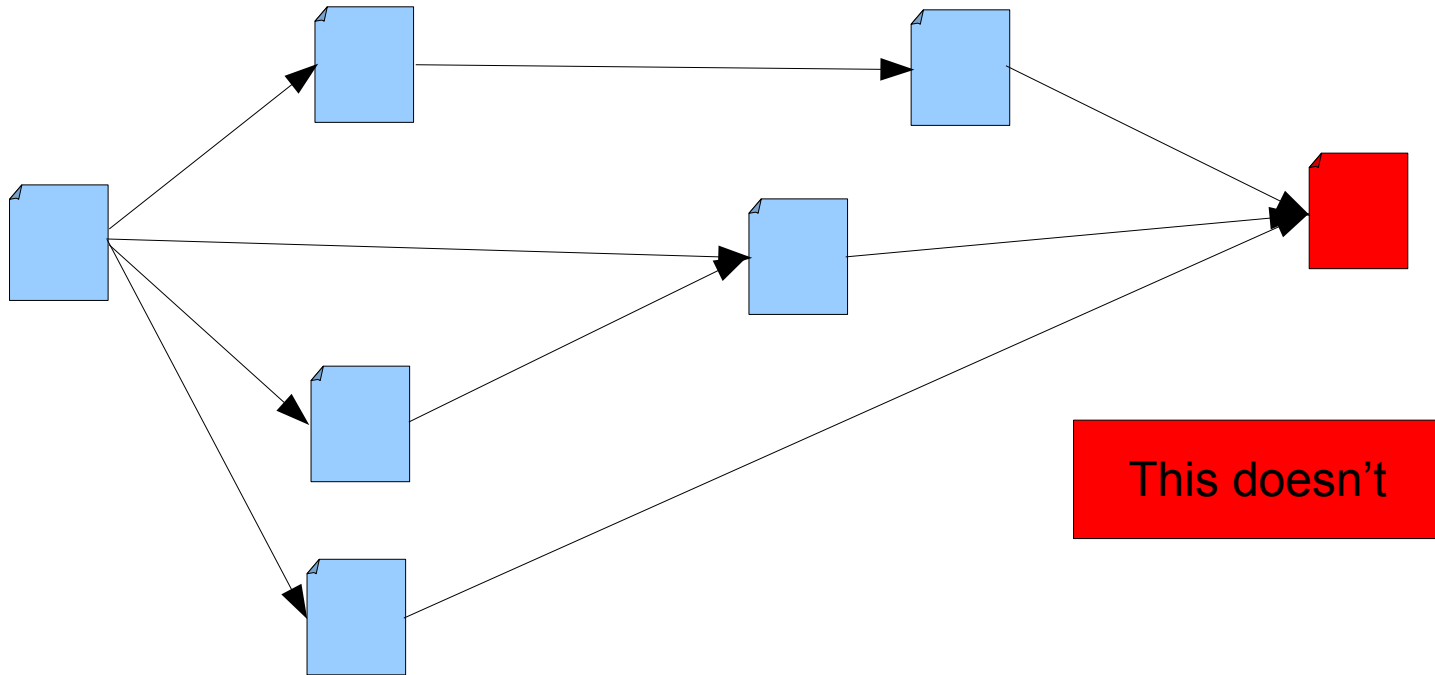
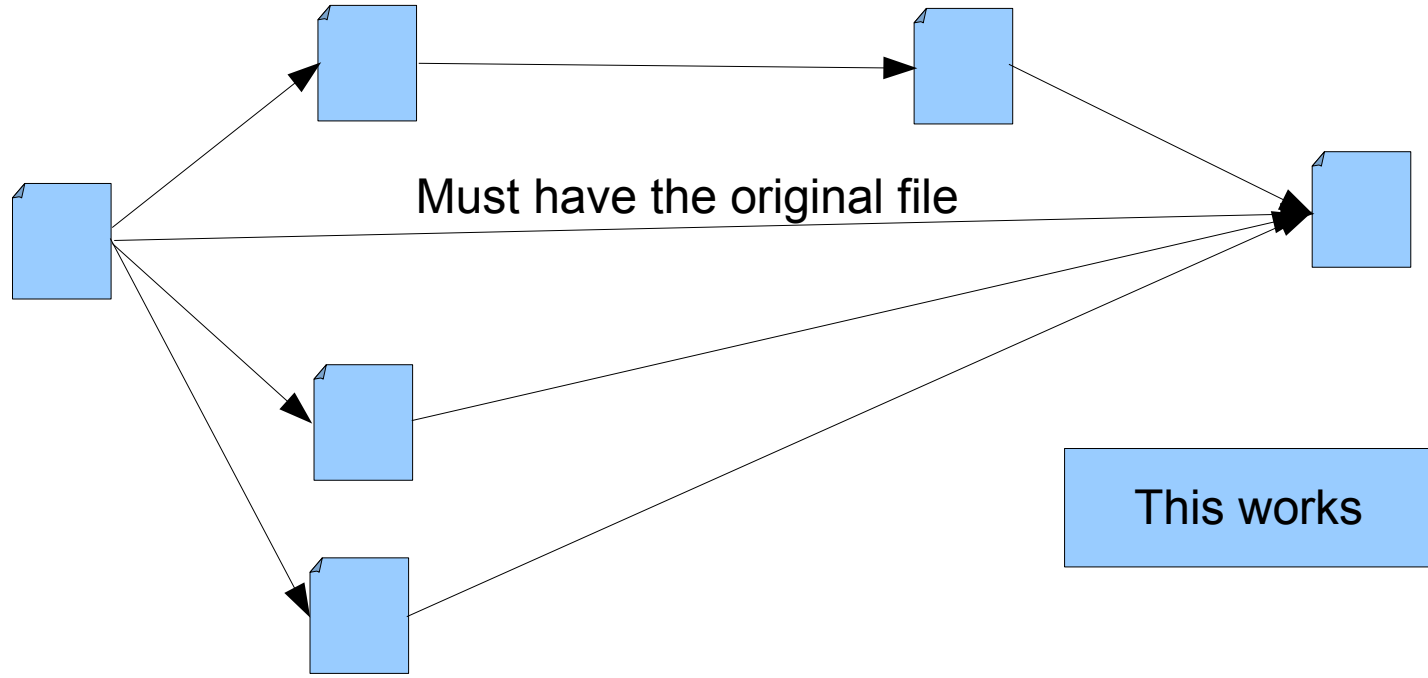
GitHub vs LibreOffice

- Office software writes binary files :-(
 - Git can store binary but no diff/merge
 - But .odt is a Zip file really...
 - content.xml and lots of other stuff
 - Very large XML overhead
 - Small text change causes large file change
 - Flat ODT (.fodt)?
 - Worse if anything, just bigger XML

Use LibreOffice 'track changes'?

- Presents diffs in the GUI
- Can even merge several versions at once, *but*:
 - Can only merge into an unchanged original document
 - All incoming changes must be on the same original and must all be merged in one operation
 - Does not work for slides

Open Source Open Training



Convert to Markdown for diff

- Clean text-based format
- Pandoc converter:
 - Text, Headings, Lists all OK
 - Some inline formatting OK
 - Misses fixed-width style (code!)
 - Cross-reference tags fail
 - Cannot handle slides at all

Convert to LaTeX for diff

- Richer than Markdown
- Less readable
- Pandoc converter:
 - Preserves more info than with Markdown
 - Still misses code styles
 - Still cannot handle slides

Change tools?

- Traditional Unix tools: LaTeX, troff...
- Markdown tools (Atom etc)
- Hacker-slides
- Landslide
- reveal.js – slides as code!

No changes for initial release...

Virtual machines

- Based on CentOS or SLES
- Setup could be packaged in an RPM
- I need to unwind the history and work out what to include...
- Had planned to just publish my images
 - AWS won't let me as I started with a Marketplace CentOS image

Current State

- On GitHub: [afindlay/open-training](https://github.com/afindlay/open-training)
- Only the LDAP Basics class so far
- More to follow when time allows
 - I need to change the branding and copyright statements
 - And sort out the machine images
 - And tidy up the presenter notes
- www.skills-1st.co.uk

Exercise 1



- Download a course
- Work through it yourself
- Adapt it
- Teach it
- Tell me about it!

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