

OFS

An Offline File System based on FUSE

Speaker

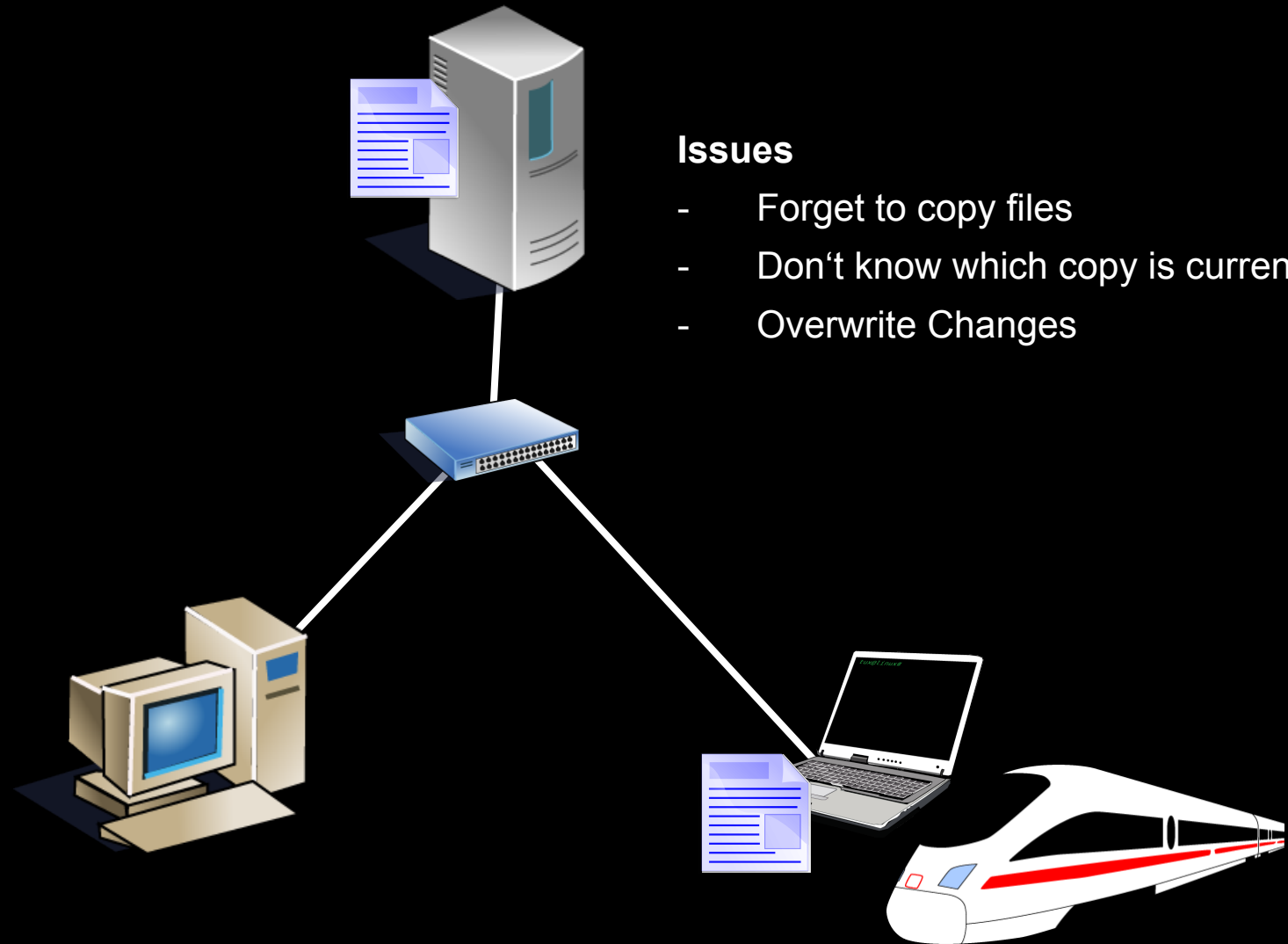
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Master's degree in Computer Science (1 Year)

Both at Georg Simon Ohm University Nuremberg

Employer: Elektrobit Automotive

Problem



Issues

- Forget to copy files
- Don't know which copy is current
- Overwrite Changes

Project

vs. Sync Tool
(e.g. Unison)

Path transparency
in online and
offline mode

Seamless
transition

OFS

Offline File System
Ohm File System

Two-Way
Synchronization

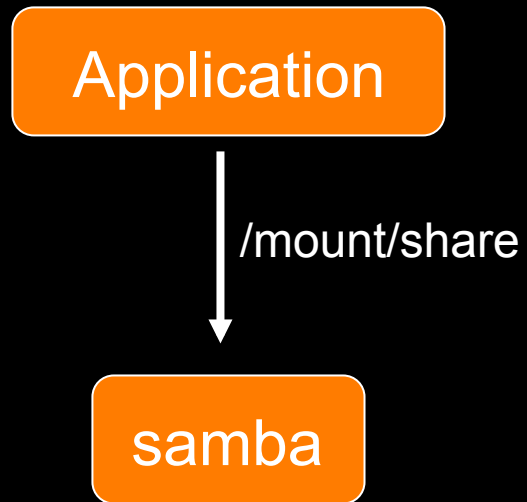
vs. Network FS
(e.g. Coda FS)

Network filesystem
independent

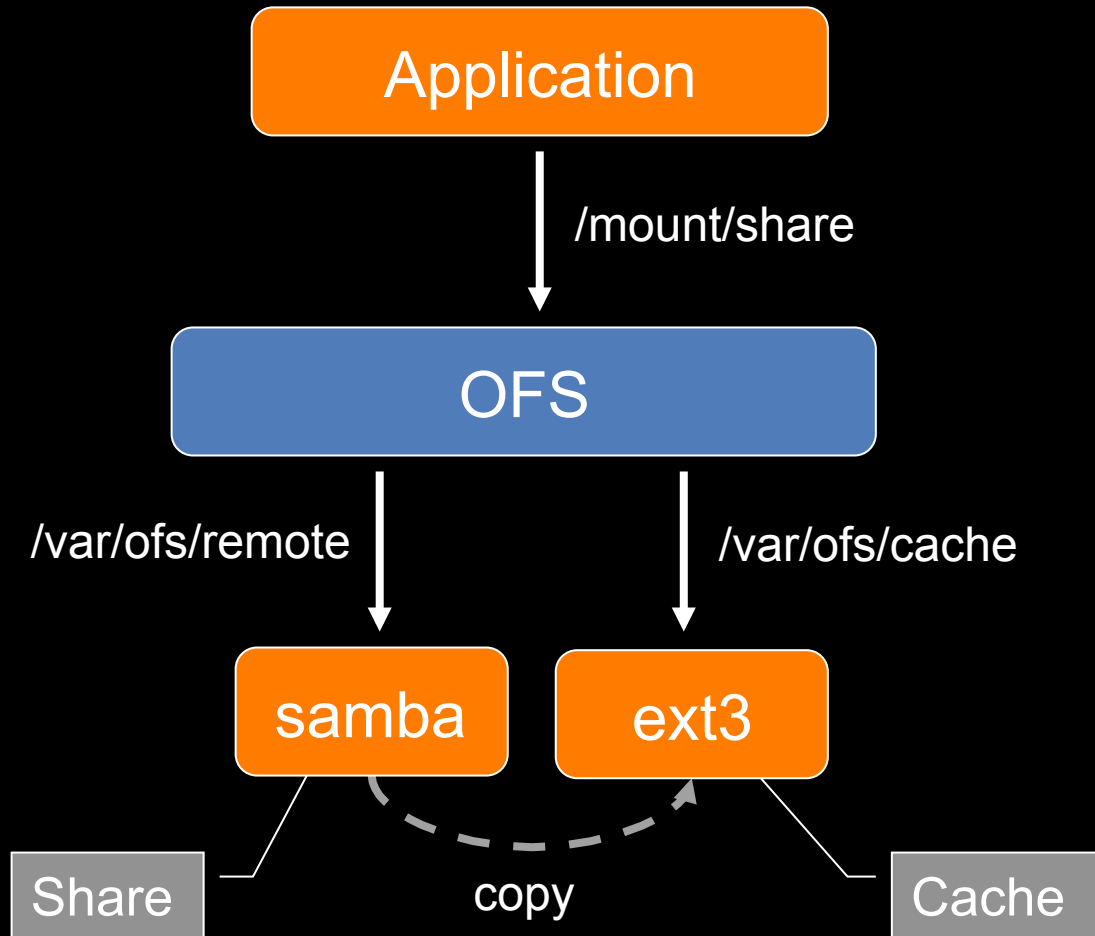
Easy adoptable

Architecture

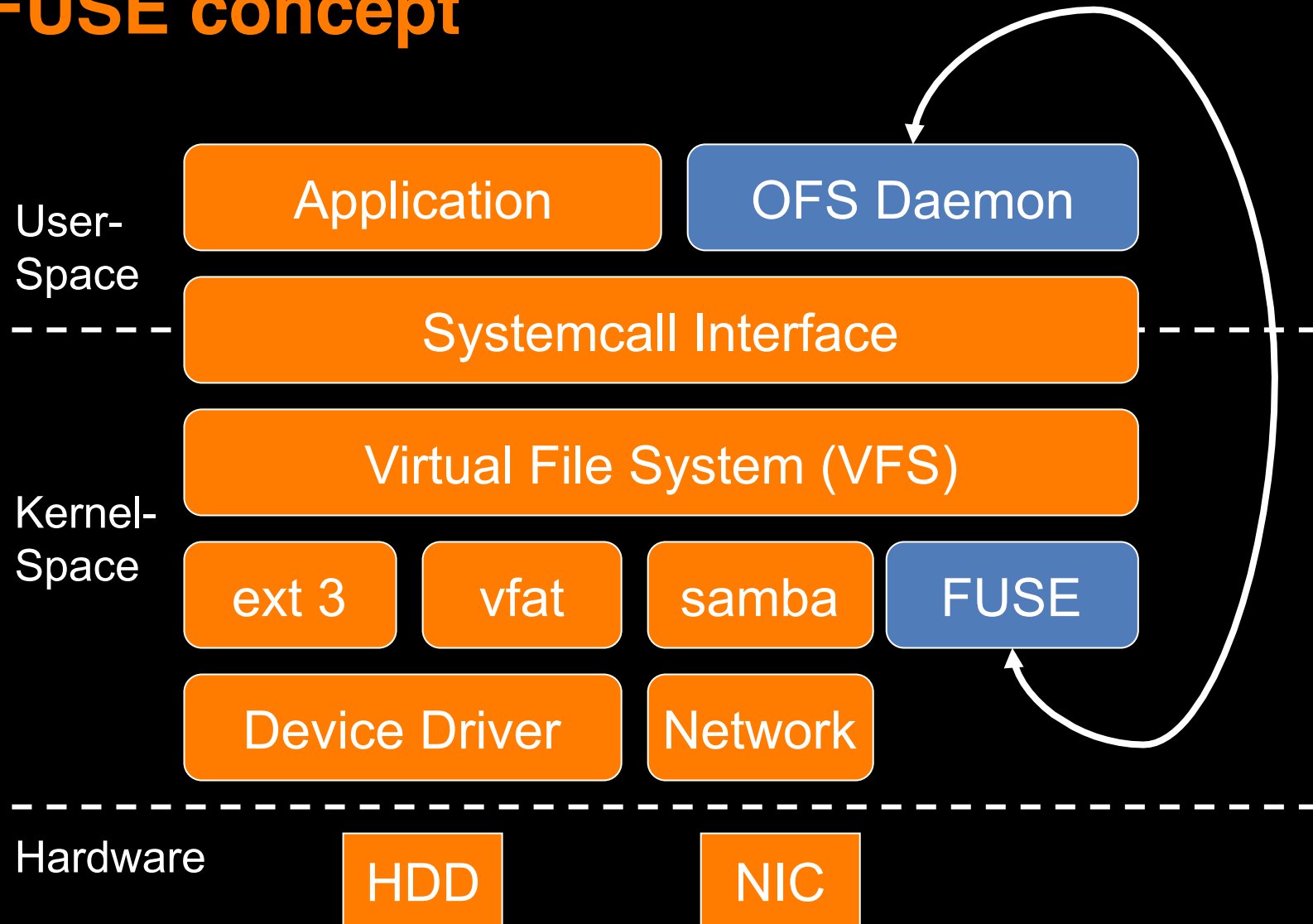
Without OFS



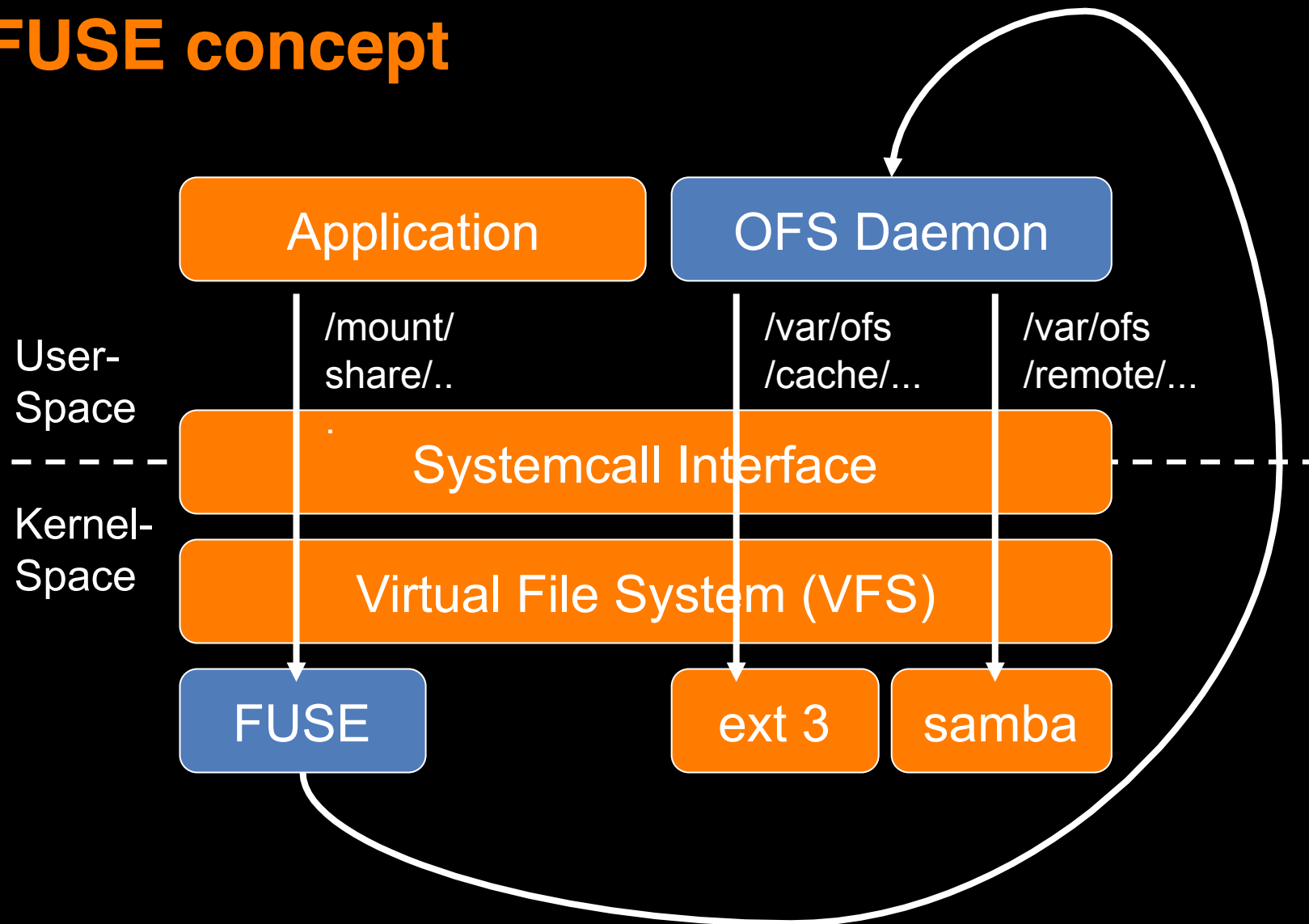
With OFS



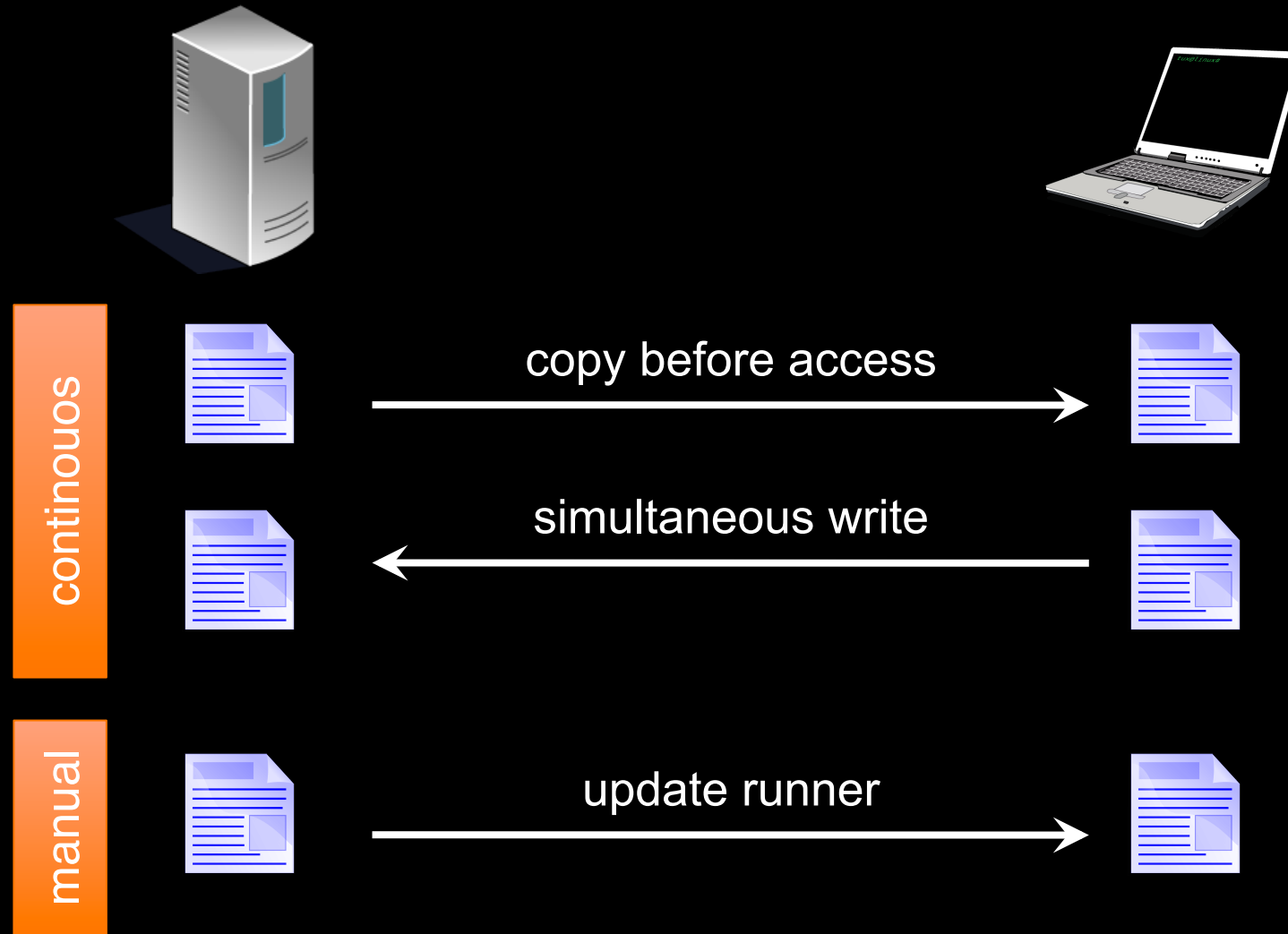
FUSE concept



FUSE concept



Synchronization



Reintegration



Offline Log
file1.txt created
file2.txt modified
file3.txt deleted



Offline Mode



file1.txt



file2.txt



file2.txt



file3.txt

Reintegration

The Future

Current Activity

- Student project just finished
- Bugfixing

Upcoming work

- Stabilization and Testing
- Lazy read/write

Looking for

- Volunteer developers
- Adoption in Distributions

Contact

OFS:

<http://offlinefs.sf.net>

-> Wiki

-> Subversion

-> Issue-Tracker

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