FMSync

An Open Source Solution for Synchronising Distributed Archaeological Databases in a Centralised Open Access System

Felix Kußmaul¹

CAA 2018, Tübingen

21 March 2018

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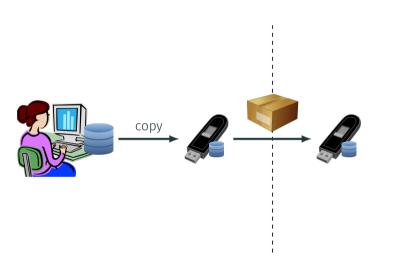
Motivation



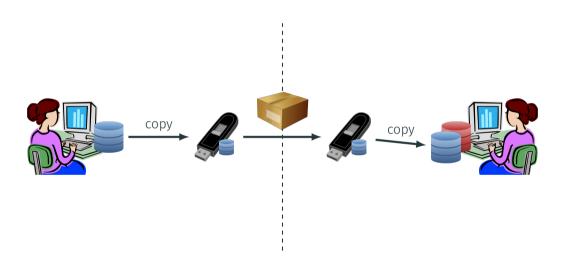


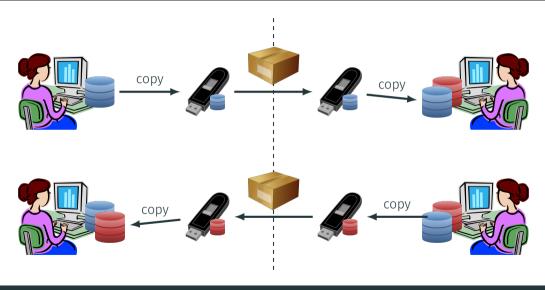




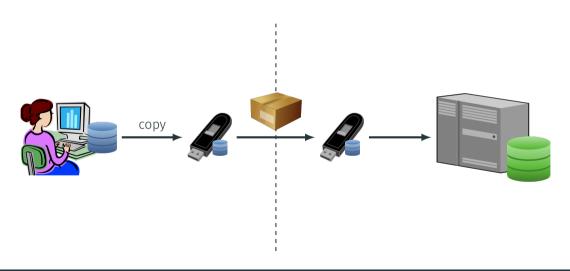




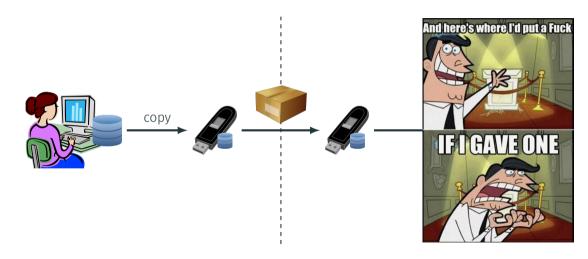




Before FMSync: Publishing Data



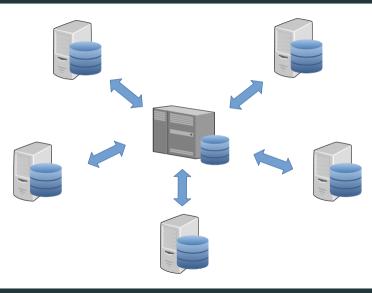
Before FMSync: Publishing Data



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Approach

FMSync: Topology



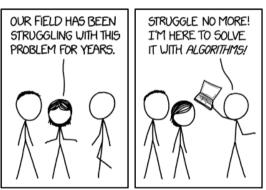






Figure 1: I can relate to this. [xkcd.com/1831]

Wait a sec ...!

Yo, Felix! 'Tis nuthin nu.

SymmetricDS supports [...] Oracle, MySQL, MariaDB, PostgreSQL, MS SQL Server (including Azure), IBM DB2 (UDB, iSeries, and zSeries), H2, HSQLDB, Derby, Firebird, Interbase, Informix, Greenplum, SQLite, Sybase ASE, Sybase ASA (SQL Anywhere), Amazon Redshift, MongoDB, and VoltDB databases.

https://www.symmetricds.org/

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https://www.symmetricds.org/

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2018-03-09

Quote Date

Purchase Quote

			Quote Number Expiration	2018-04-08
	Product	QTY	Unit Price	Extended Price
FM160277LL	FileMaker Server 16 FLT Perpetual Volume License + 1 Year Maintenance (10 users)	1	US\$4,284.00	US\$4,284.00
			Subtotal:	US\$4,284.00
			Shipping:	US\$0.00
			Estimated Tax:	US\$0.00
			Total:	US\$4,284.00

- Proprietary, badly written software
- · Still totally not worth the price

Our Solution

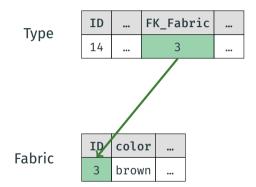
open source (license!), free, platform independent (java)

Implementation

Туре

ID	•••	FK_Fabric	•••
14	:	3	

ID	color	***
3	brown	



Туре

ID	•••	FK_Fabric	•••
14		3	

ID	color	•••
3	brown	

ID	•••	FK_Fabric	•••
105		Х	

ID color ... 81 red ...

 ID ... FK_Fabric ... 105 ... x ... → 106 ... 3 ...

Fabric

ID	color	•••
3	brown	

 ID
 color
 ...

 81
 red
 ...

import

Туре

ID	•••	FK_Fabric	•••
14		3	

 ID
 ...
 FK_Fabric
 ...

 105
 ...
 x
 ...

 106
 ...
 3
 ...

Fabric



ID color ... 81 red ... 82 brown ...

Туре

ID	•••	FK_Fabric	•••
14		3	

ID	color	***
3	brown	

ID	•••	FK_Fabric	•••
105	•••	Х	
106		3	:

ID	color	
81	red	
82	brown	

Туре

ID	•••	FK_Fabric	•••
14		3	

ID	color	***
3	brown	

ID	•••	FK_Fabric	•••
105		Х	:
106		3	:

ID	color	
81	red	
82	brown	

Туре

ID	•••	FK_Fabric	•••
14	:	3	:

ID	color	•••
3	brown	



ID	color	•••
81	red	
82	brown	

Thank you very much for your attention!

Questions?

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