

Event Sourcing

Greg Young

QCon San Francisco 2007

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Presentation: "Scaling Domain Driven Design"

Track:  [Architecture Quality \(day 2\)](#)

Time: Thursday 16:00 - 17:00

Location: Metropolitan I

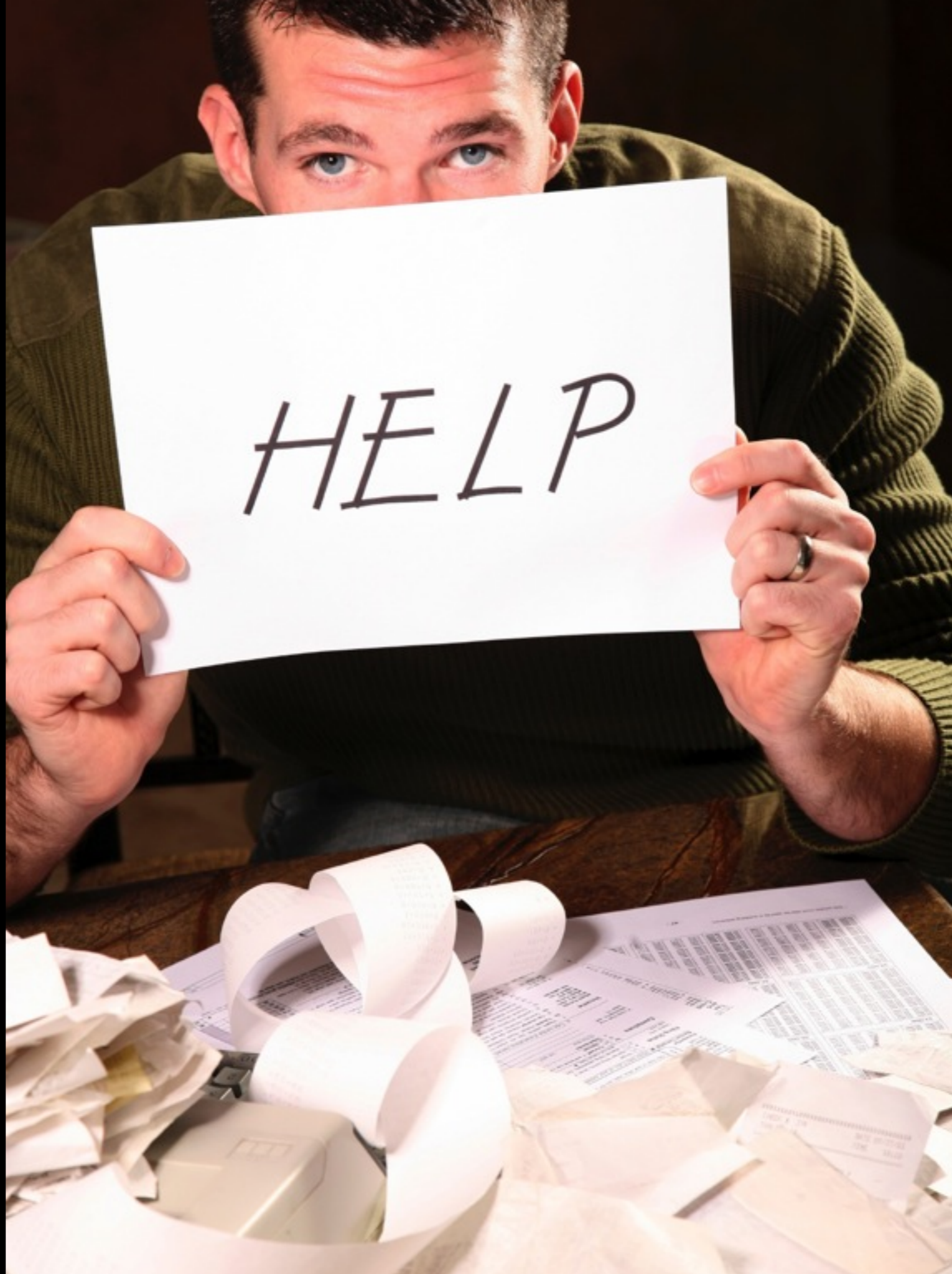
Abstract: We've all heard about Domain Driven Design (DDD), but have you seen it applied in a large system? In the session you'll see how DDD was put to work to help design a high performance application processing 2000 sustained transactions per second with over 30GB of data added daily! It was DDD and the new 'Asynchronous Context Mapping' pattern that made this system possible with near linear scaling. Learn how to apply these techniques in your applications and how to overcome the challenges of DDD, such as reporting. This session makes large scale DDD make sense.

 [Download slides](#)

Greg Young, IMIS



writing articles for InfoQ
throughout the south east
northwest, or floating up
kayak.

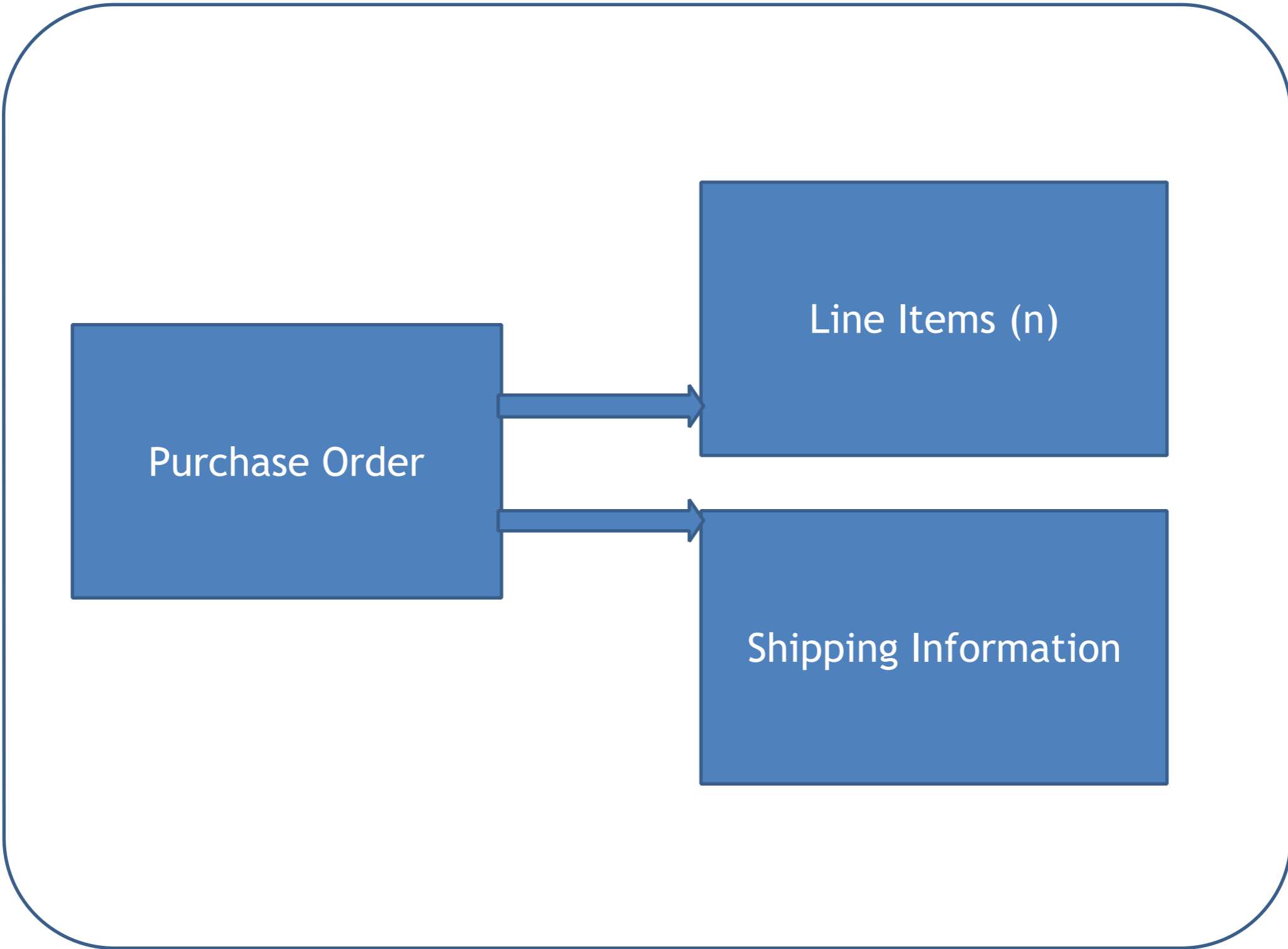


HELP



Date	Value
07/01	217
02/06	52/6
05/16	36/33
01/15	136.00
01/15	307.50
01/15	726.00
01/15	596.00
01/15	622.00
01/15	783.00

Event Sourcing says all state is transient and you only store facts.



Purchase Order

Line Items (n)

Shipping Information

Cart
Created



3 Items
Added



Shipping
Informati
on Added



Cart
Created



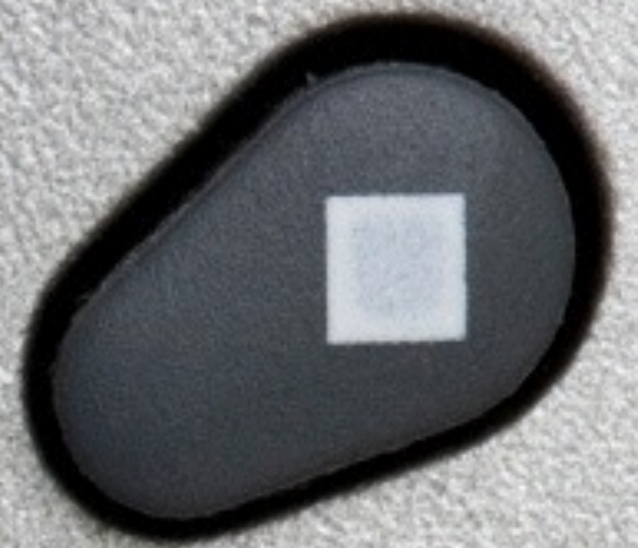
3 Items
Added



1 Item
Removed



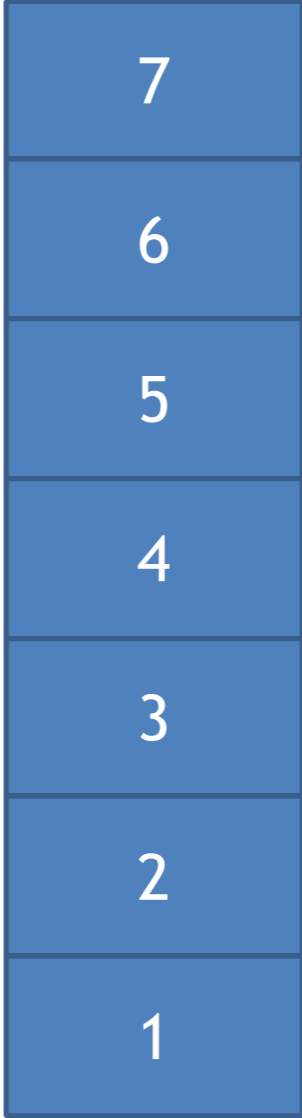
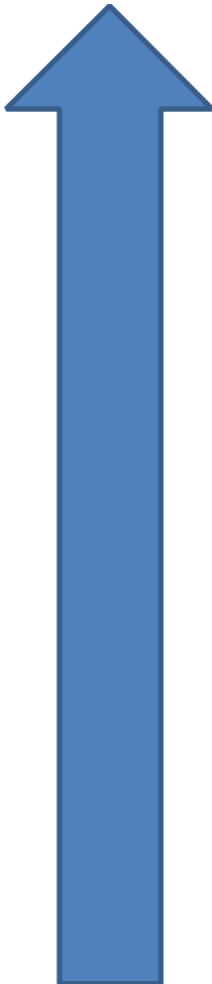
Shipping
Informati
on Added

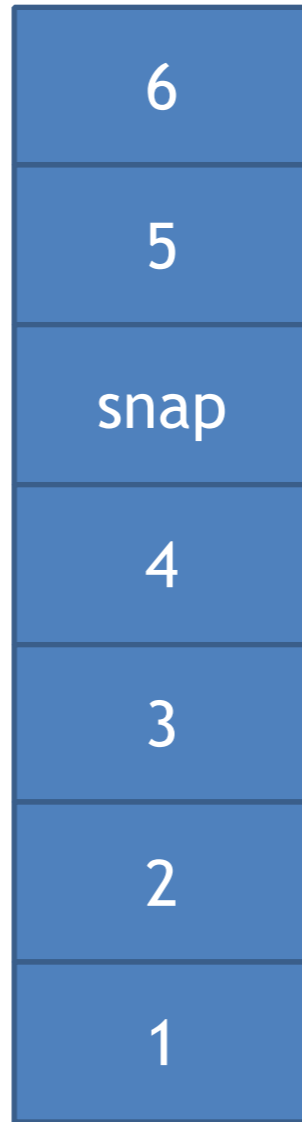
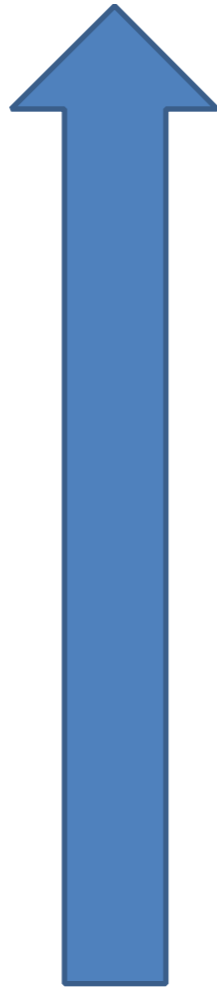


Replay

Skip









I can't query a series
of events



Cassandra



mongoDB



CouchDB
relax

 WILEY

Succeeding with Object Databases

A Practical
Look at Today's
Implementations
with Java[™]
and XML

Akmal B. Chaudhri
Roberto Zicari



There is no “Best”
storage

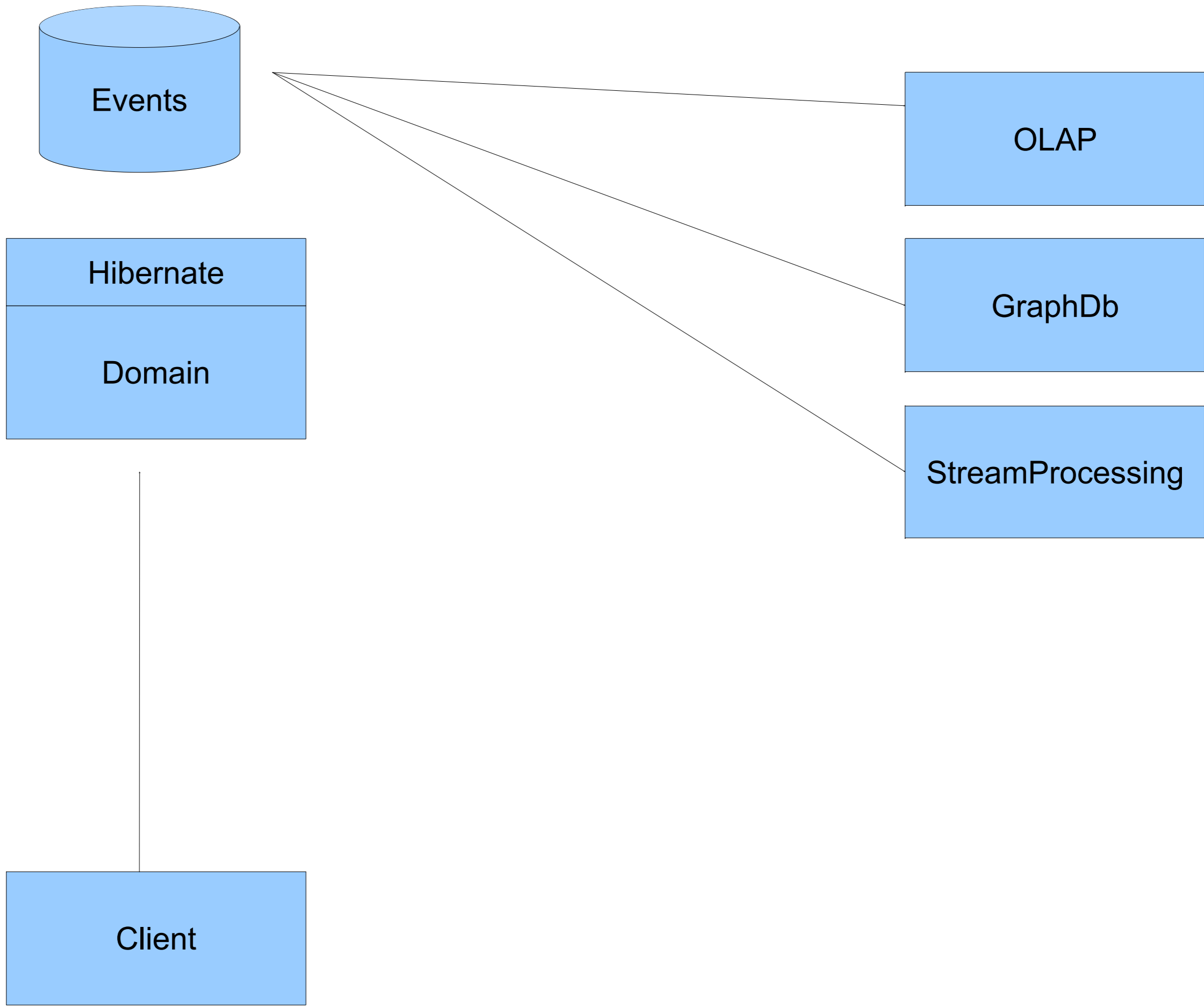


twitter

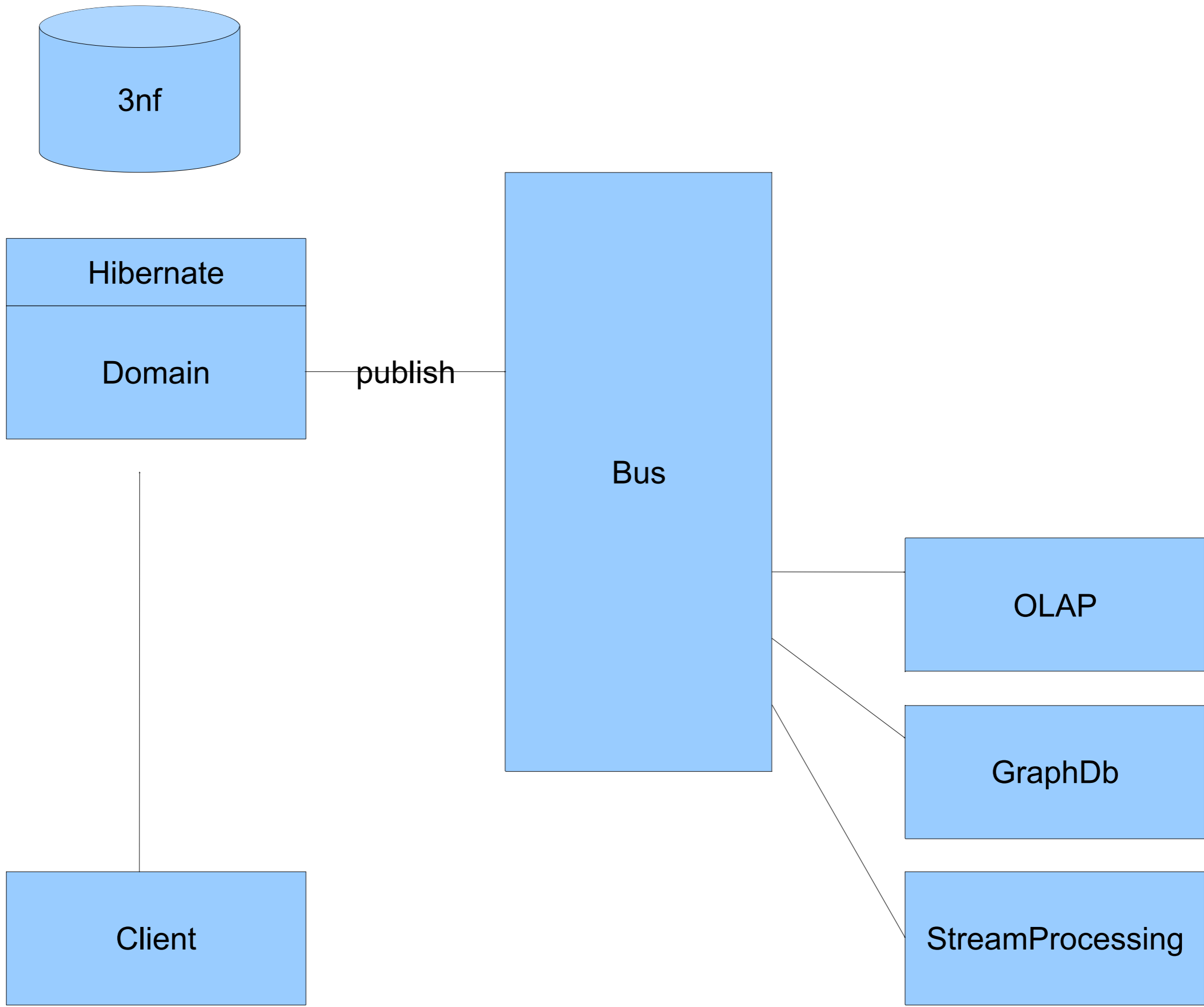
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2	1	Child1
3	1	Child2

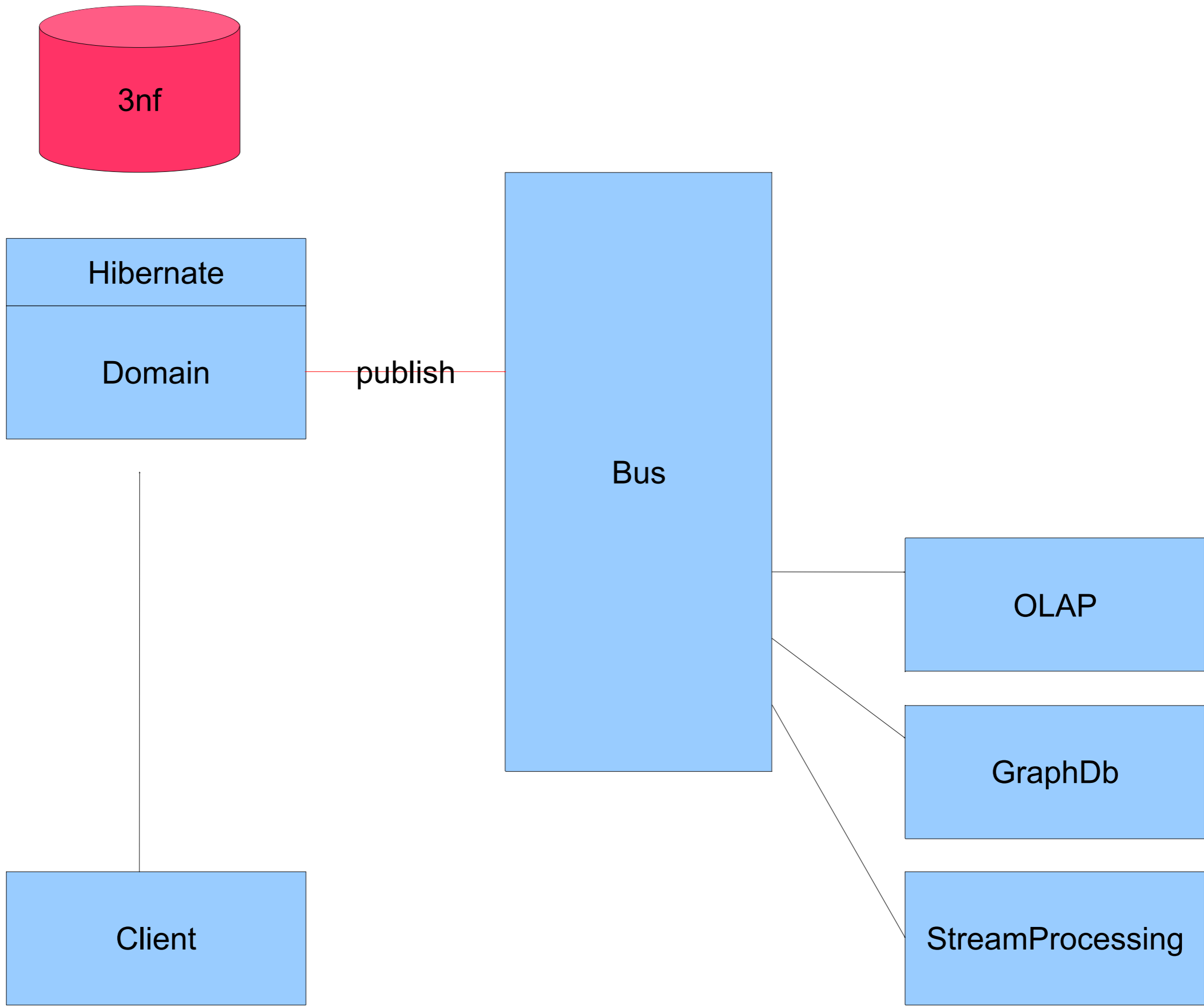
Id	ParentId0	ParentId1	ParentId2	ParentId3	ParentId4	Data
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2	1	0	0	0	0	Child1
3	1	2	0	0	0	Child2

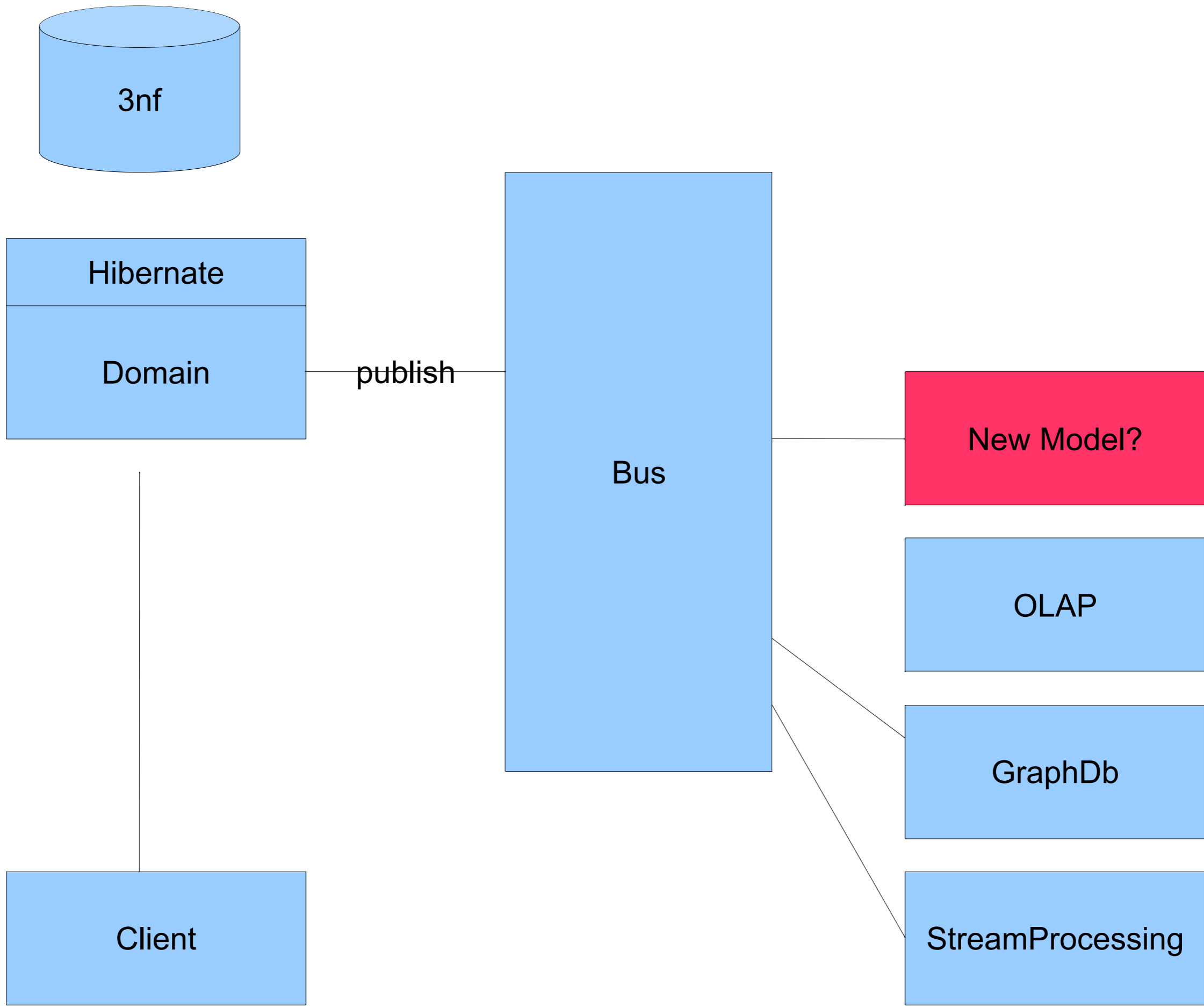
Wrong models cause
accidental complexity

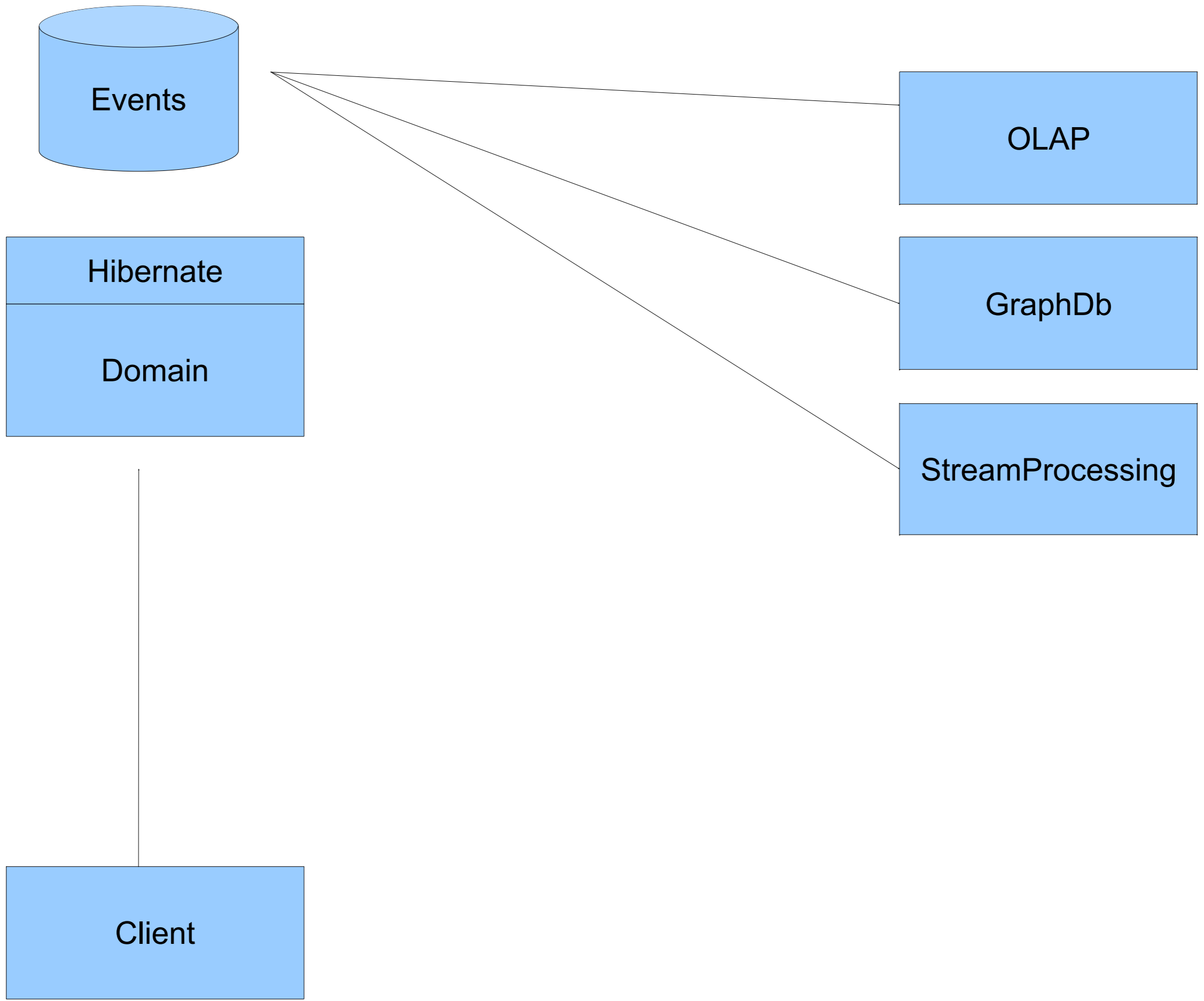


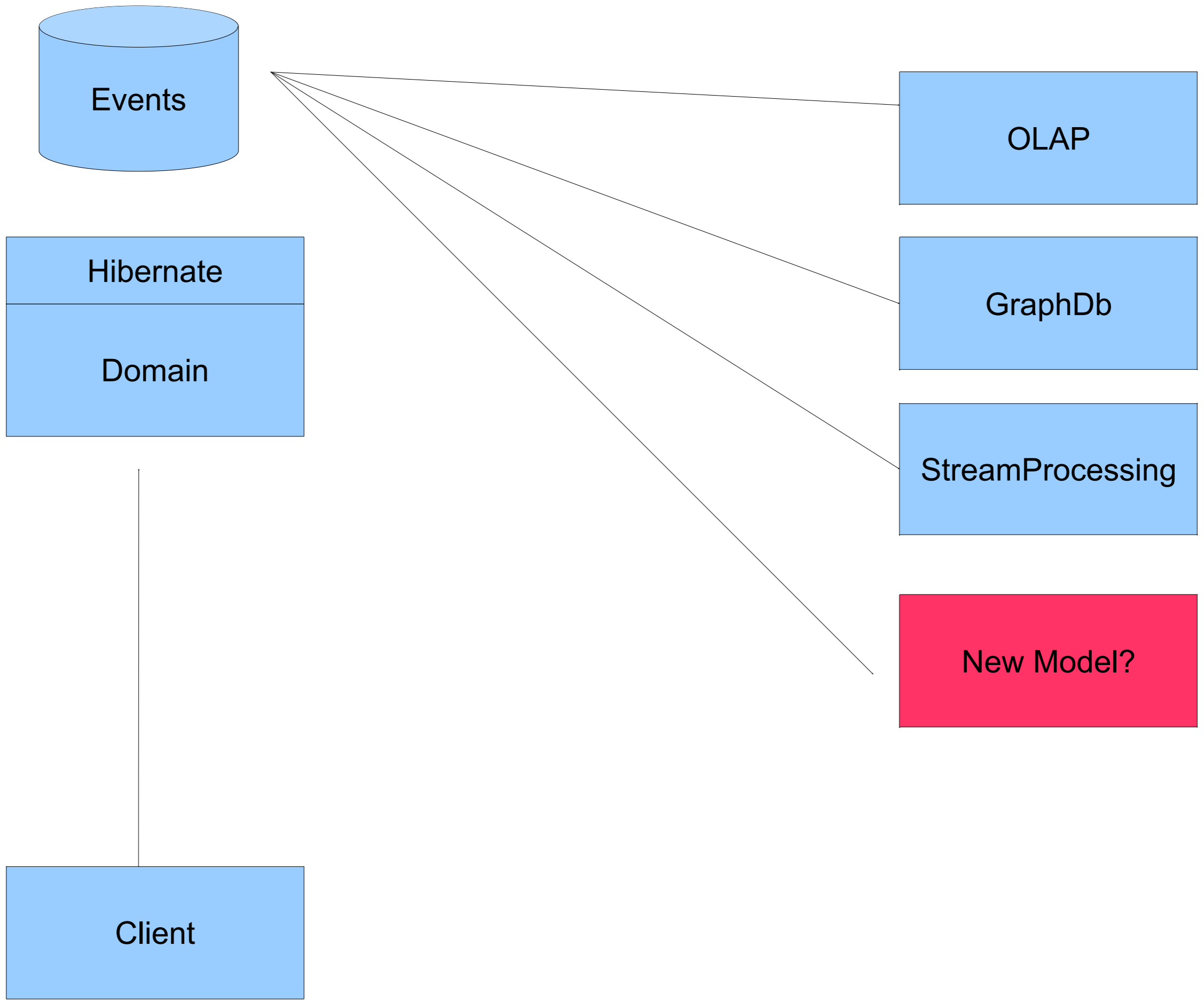
Event Sourced Systems
need a service bus











Event Sourcing is
more complex!

What big companies are using Event Sourcing?

Because obviously we make our decisions this way!

Event Sourced
systems must be slow

Event Sourced systems
must be object oriented

What is the “bestest” Event Sourcing framework ever?

Cirqus of course, at least the guys are local when it
sucks

But what about all my
data with Event Sourcing
it must be huge!

If it fits on a micro-SD its not big data.

CQRS is just a
teaching pattern!

Event Sourced
systems must be slow

Event Sourced systems
must be object oriented

But what about all my
data with Event Sourcing
it must be huge!

Event Sourcing isn't
“enterprisey”

Event Sourcing isn't
“enterprisey”

THANKS!

No really Thanks!