

挖财的互联网金融技术探索

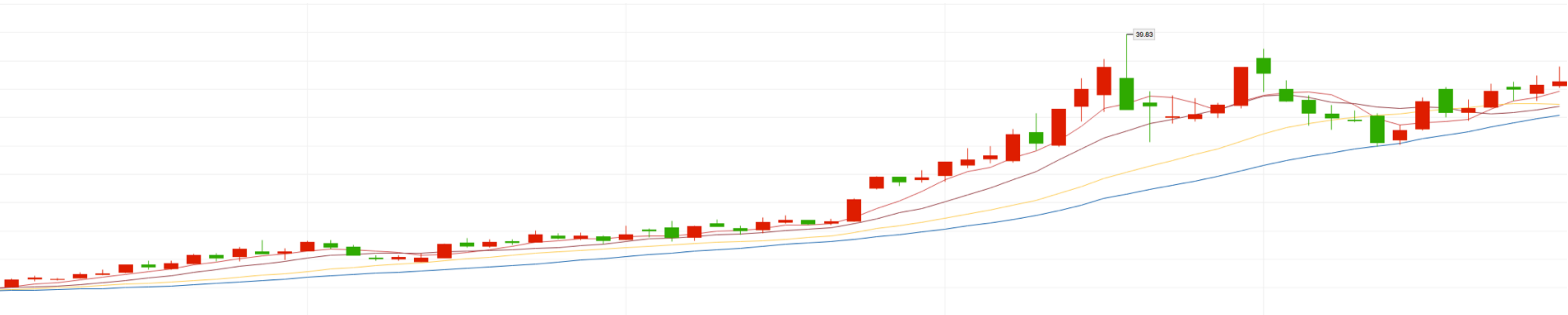
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@FuqiangWang(<http://afoo.me>)

金融

互联网

互联网金融



大连

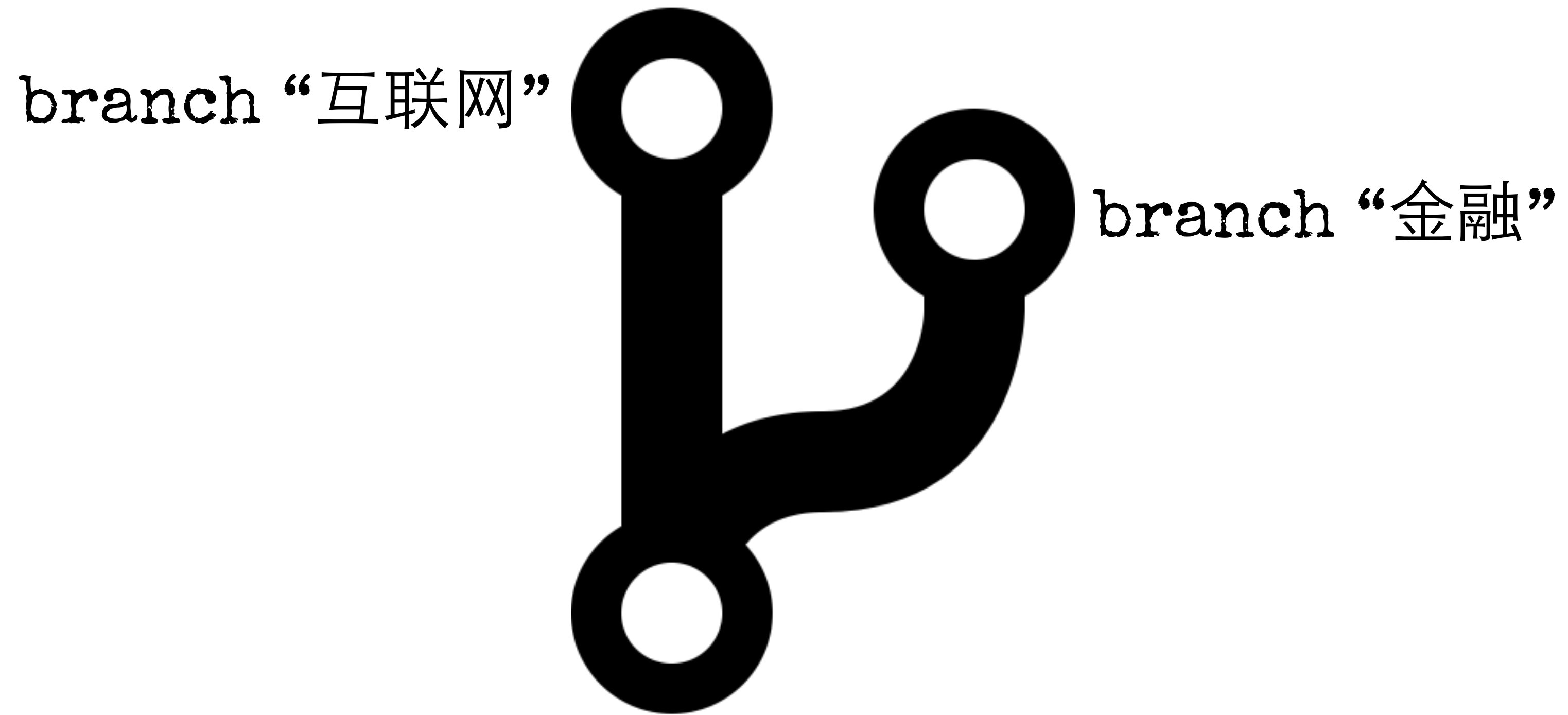
杭州

阿里

挖财

挖财不仅仅只是一款记账app





just merge, then we get “互联网金融”?

WE ARE STILL

THE FOLLOWING ...



1. Separation Everywhere

SOA micro services
modularity responsibility

[Micro] Services Everywhere



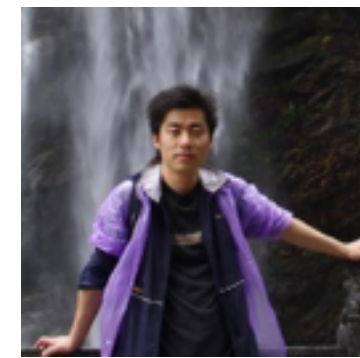
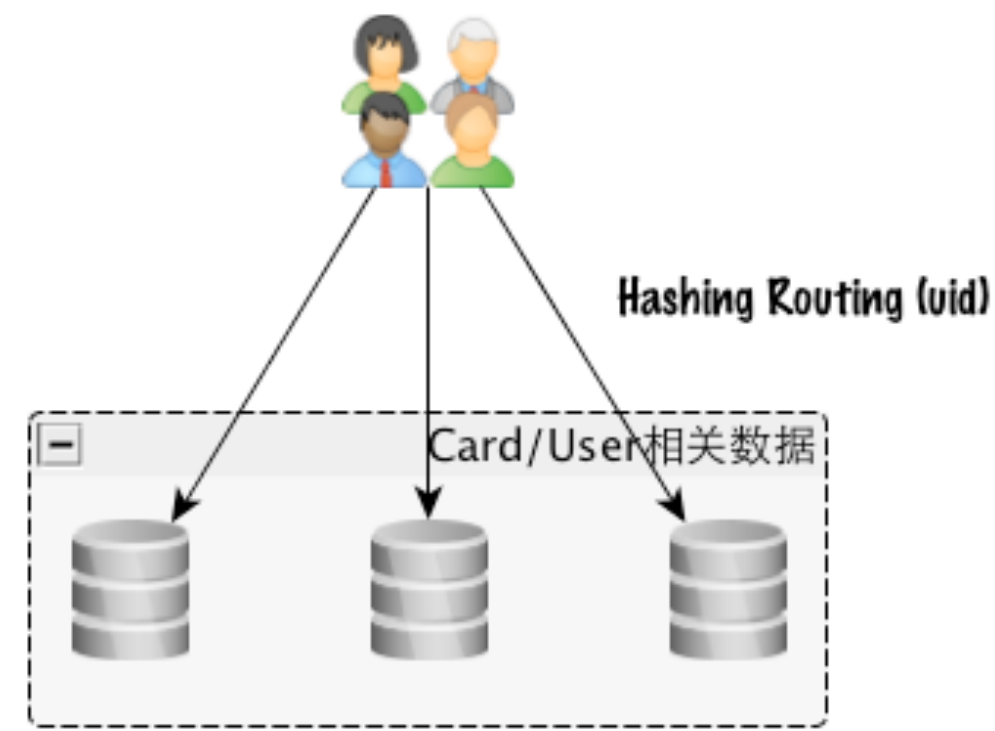
CASHFLOW



Settlement

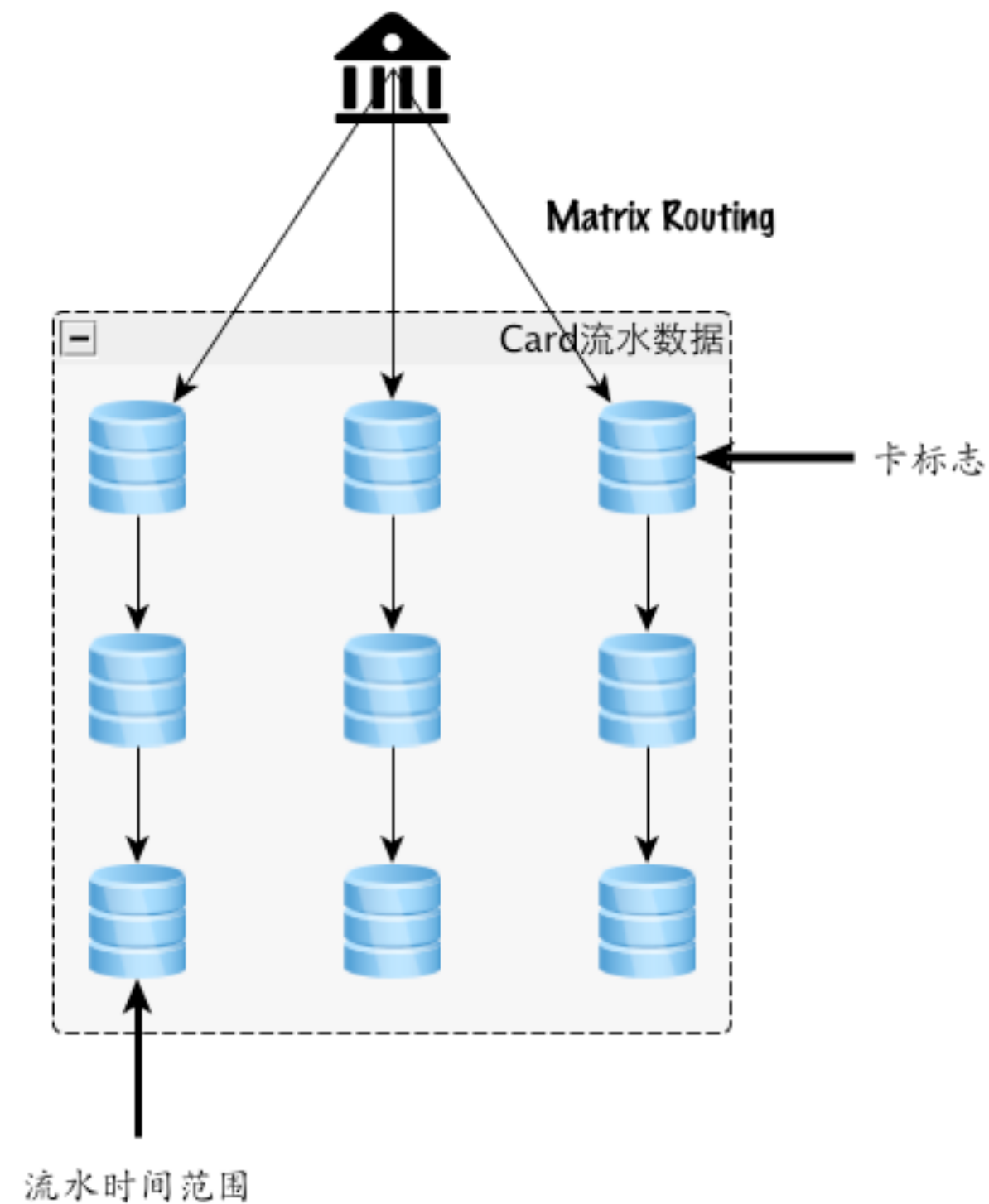


Scale MySQL For Cashflow



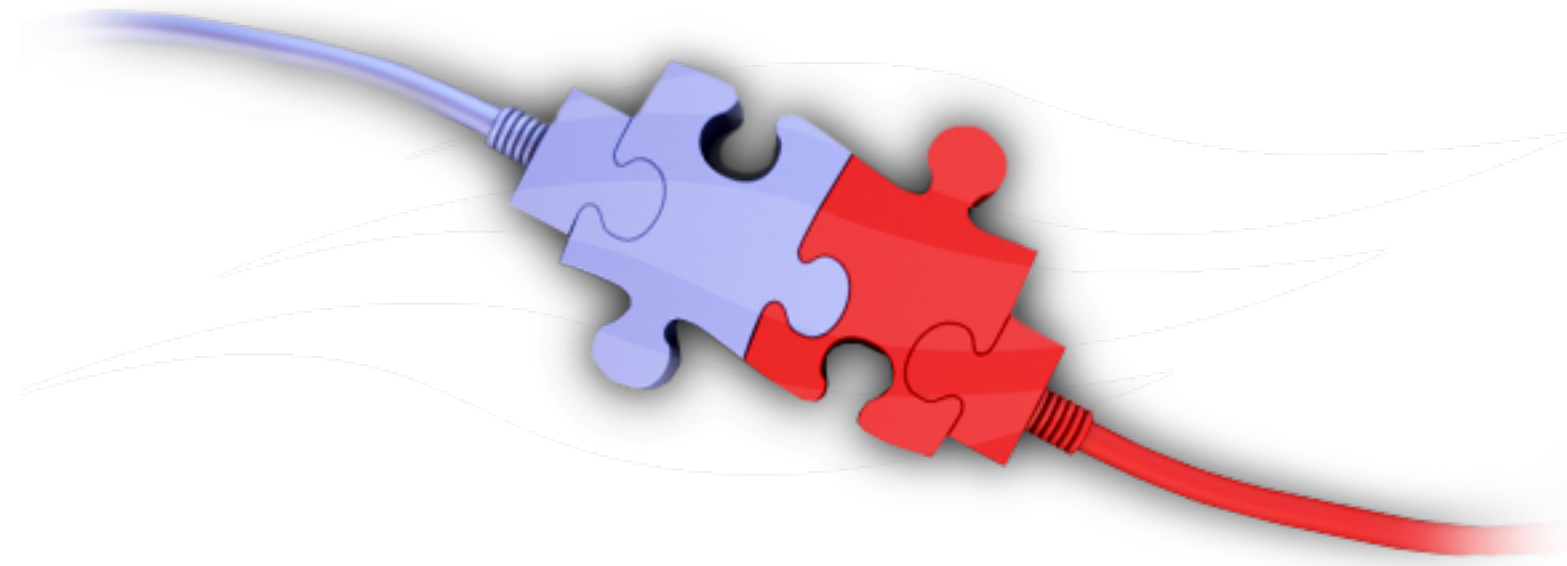
Cobar != CobarClient

Naming Consistency
Sucks Here



Different Is Good

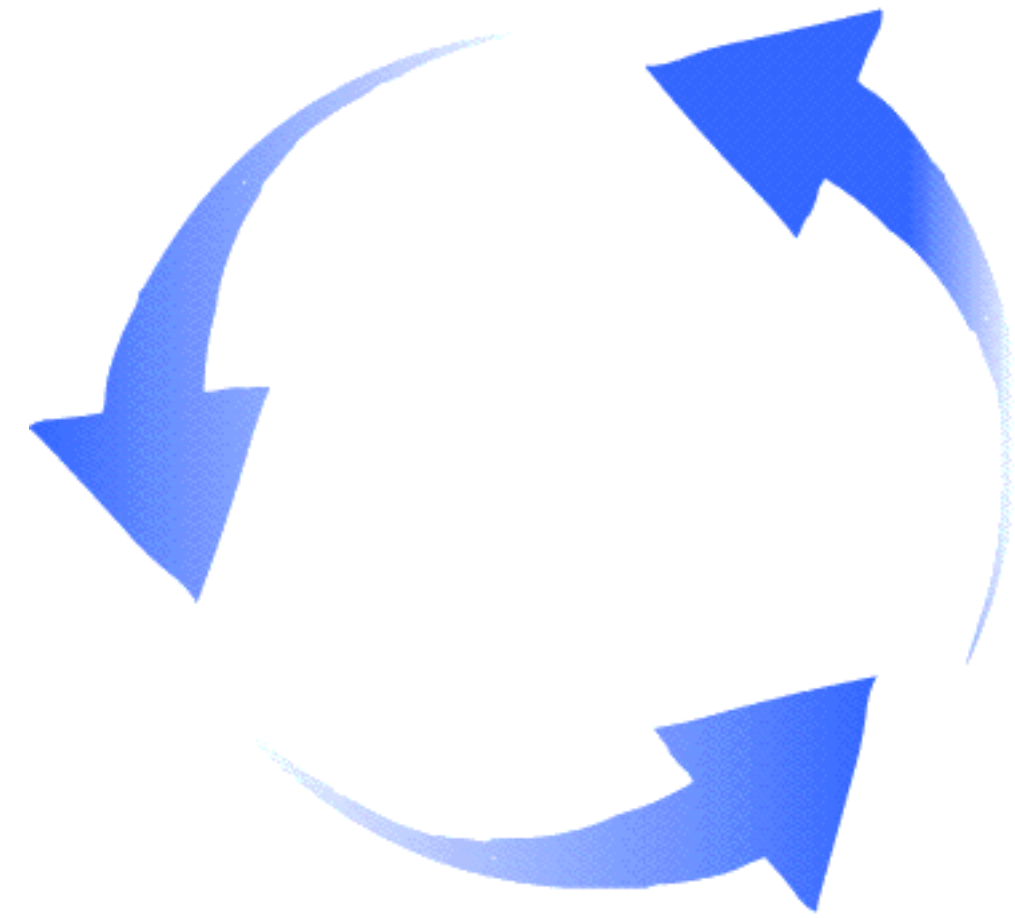




2. Message Passing Everywhere

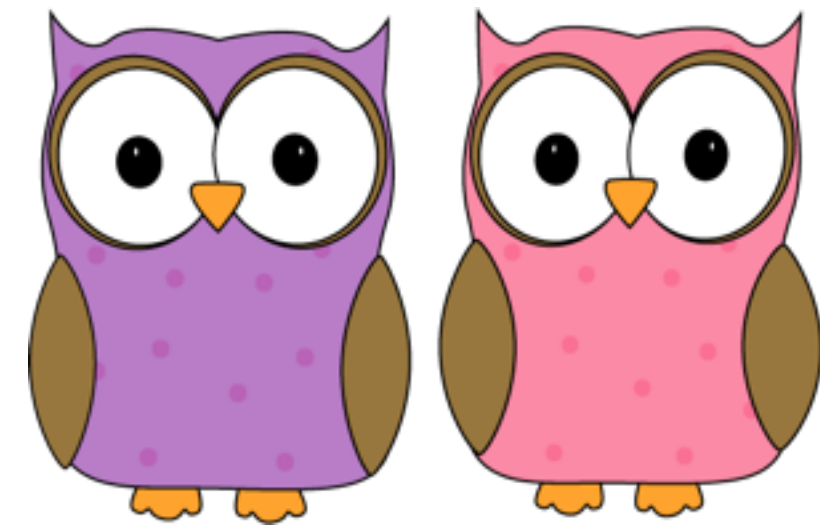
Sync

Local



Remote

Async



remoting
RPC

DUBBO

HTTP

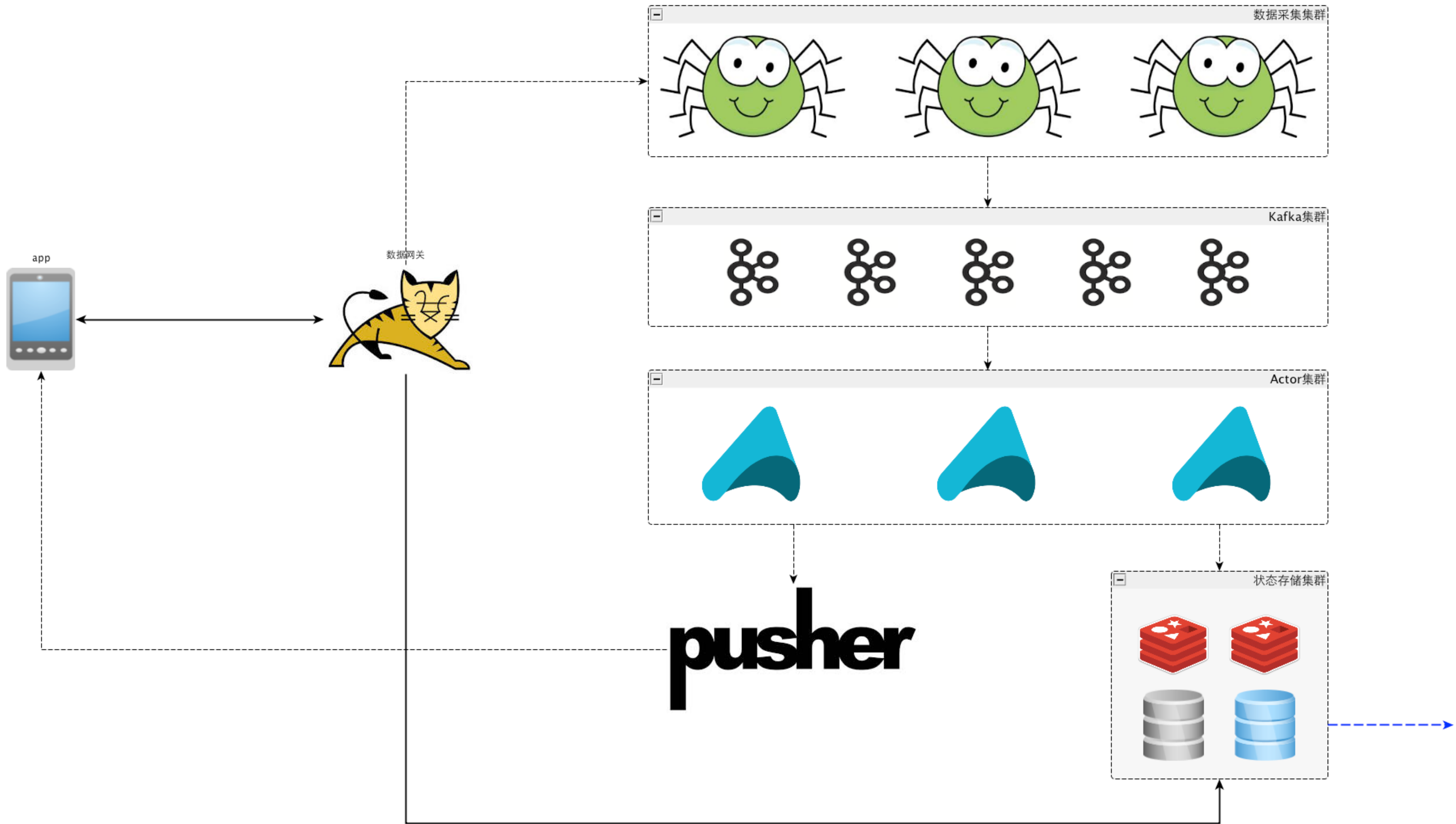


Commands & Events



Latency, Latency, Latency

3. Async Everywhere



THROTTLING

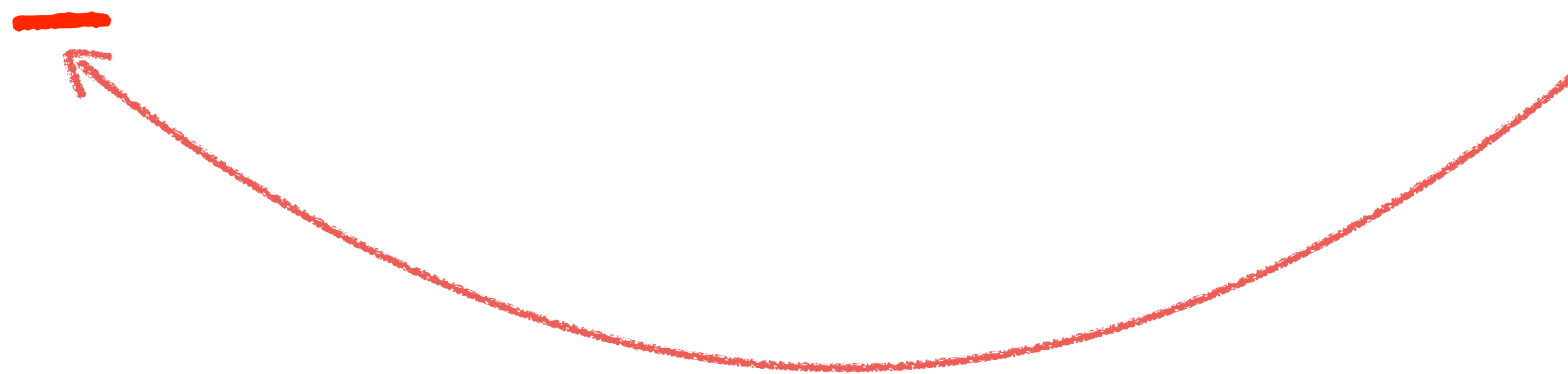
Taming  akka

CLUSTERING

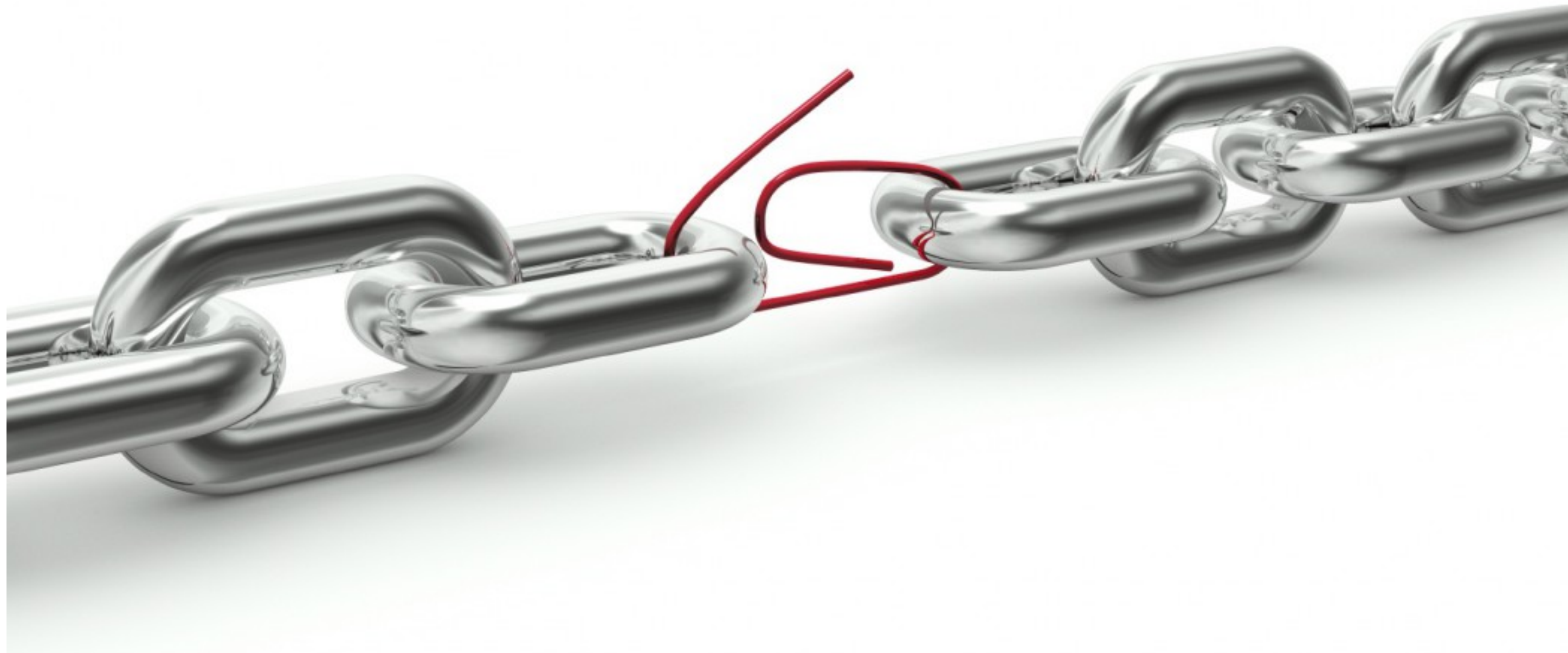
HIBERNATE

Push is NOT so reliable

— Poll lives long



Async Is Not Enough, Non-blocking Matters



- adbcj - < <https://github.com/mheath/adbcj> >



宁多勿缺

4. Immutability Everywhere

CSI:
CRIME SCENE INVESTIGATION

Kafka As The Big Journals

- expiration after 1 month(default is 1 week)
- topics with hierarchy
- replicas first, partitions if needed
- http senders, tcp receivers

Traveling Back...

- Logging,Logging,Logging...
- Trace Tables
- Event Sourcing
- Akka Persistence





5. Security Everywhere



5.1 Interception Everywhere

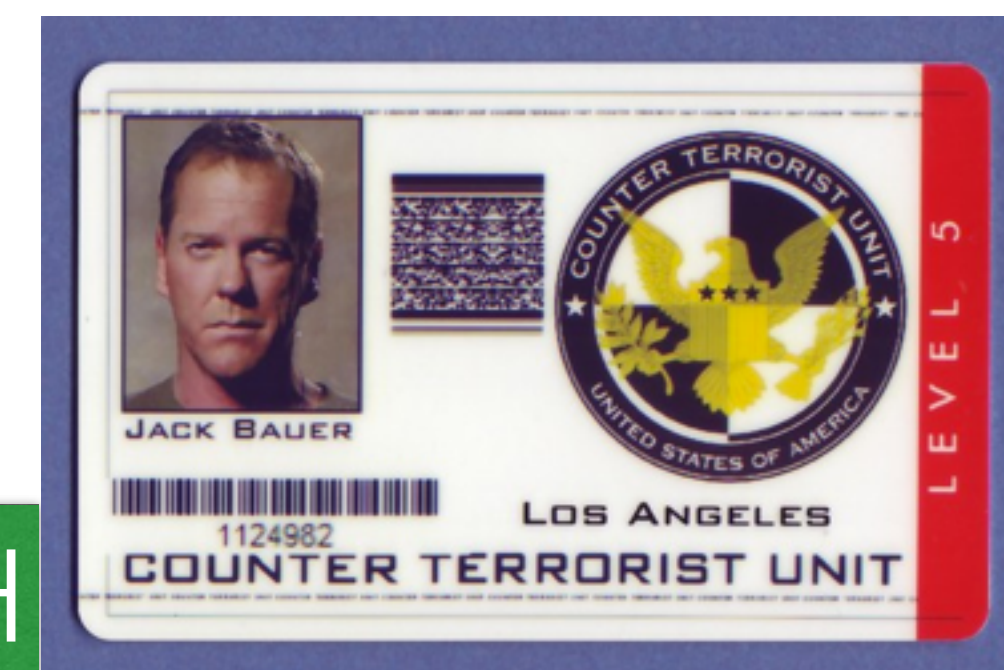


技术层面

NFw

WAF

AUTH



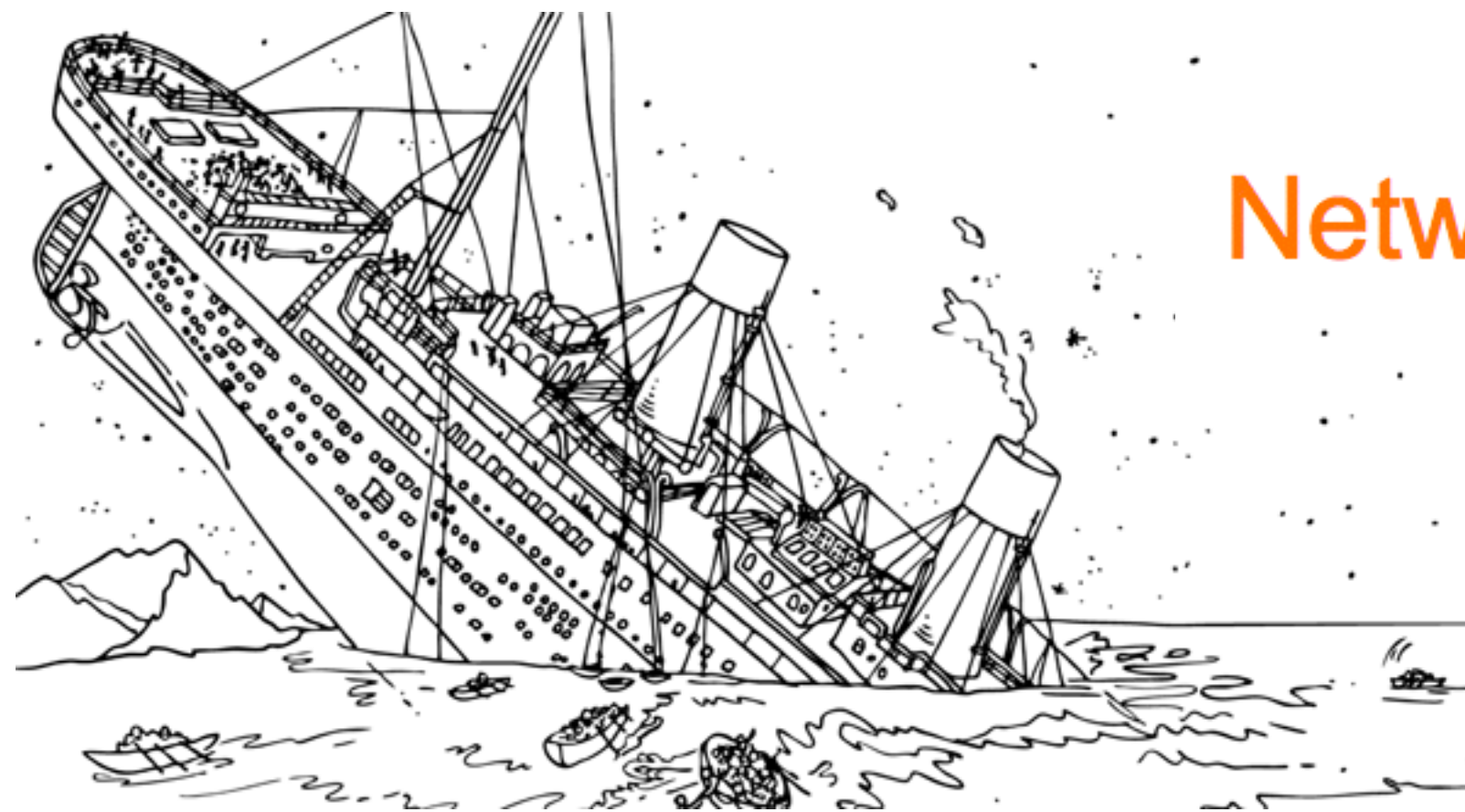
业务层面

同盾

风控

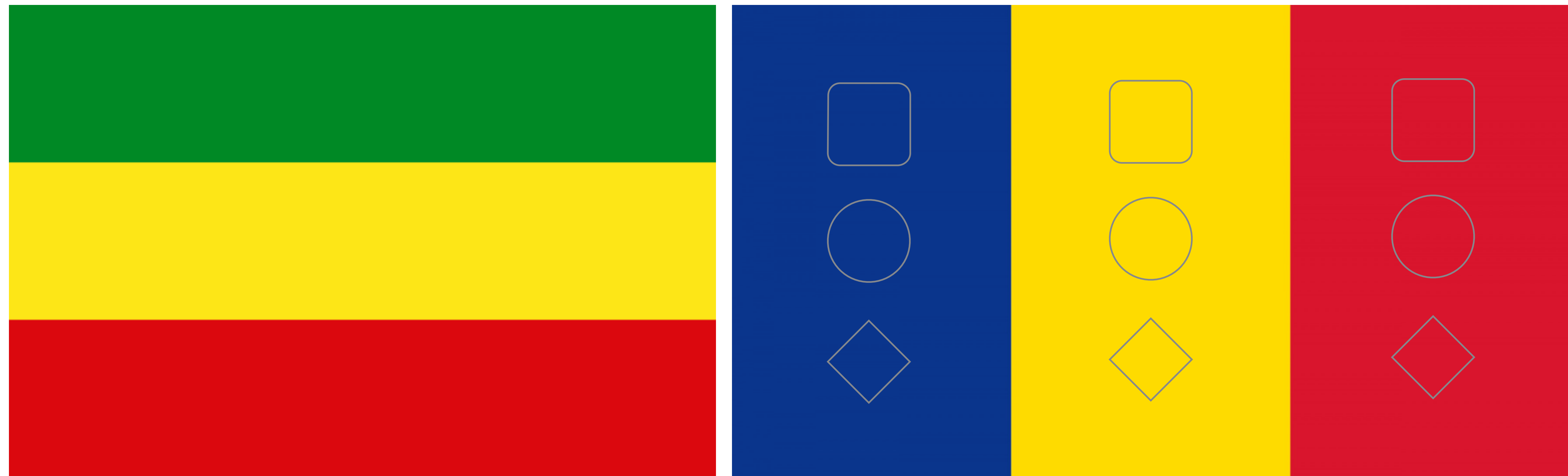
人工

5.2 Bulkheads Everywhere



Networking System Storage **Process**

Separation \neq Isolation



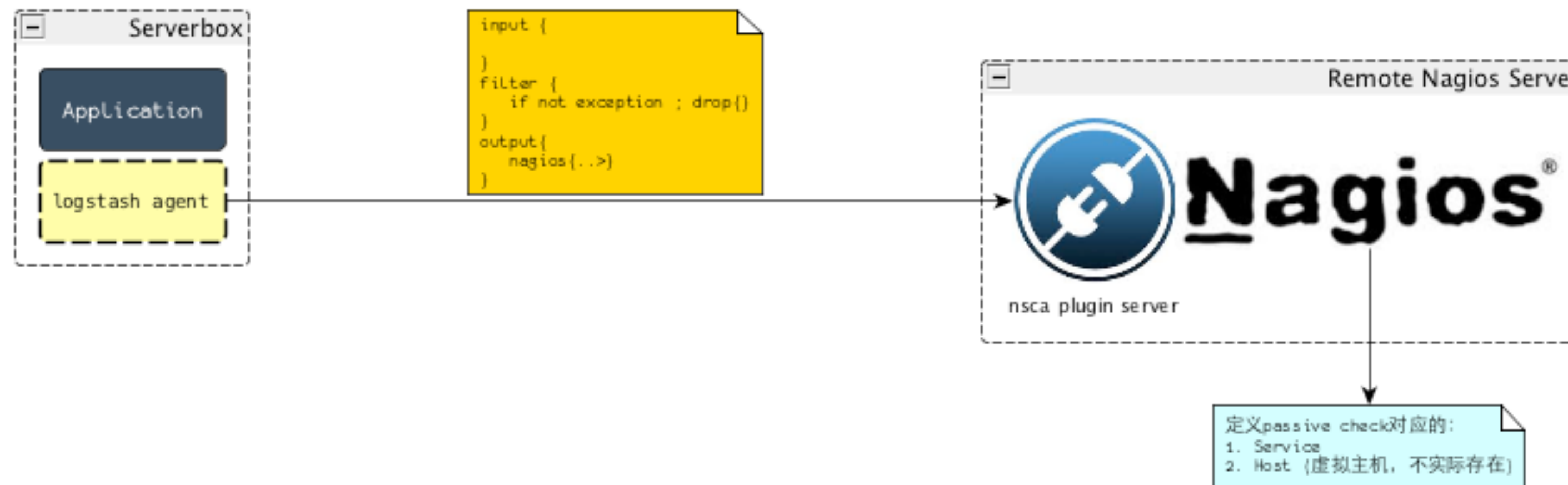
Guess, Why We Don't Use Kafka Partitions **Heavily**?



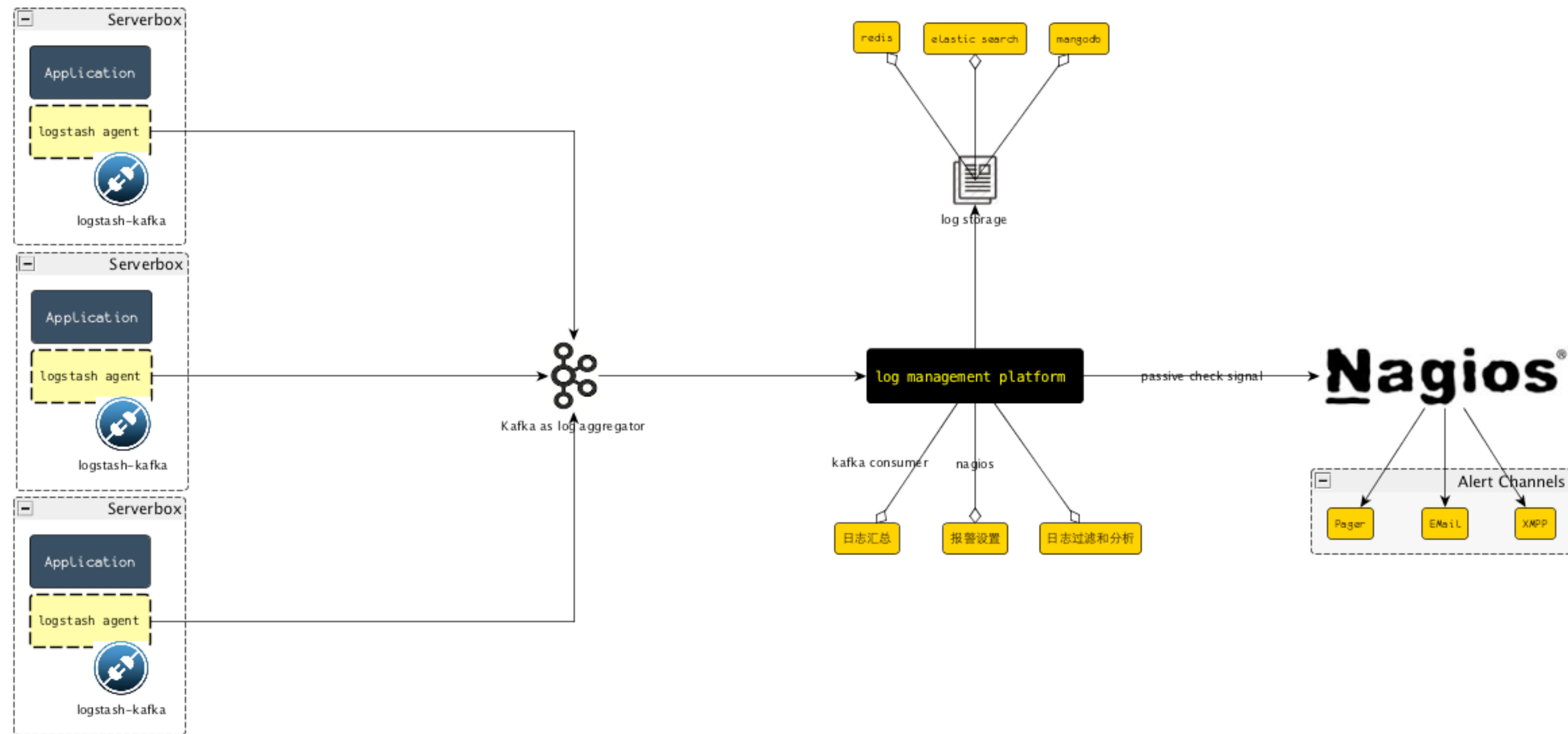
5.3 Monitoring Everywhere

do u mean IDS?

From Zero to One



From One To Many



zabbix

fluentd

flume



5.4 Switches Everywhere

fallback direction



1



2



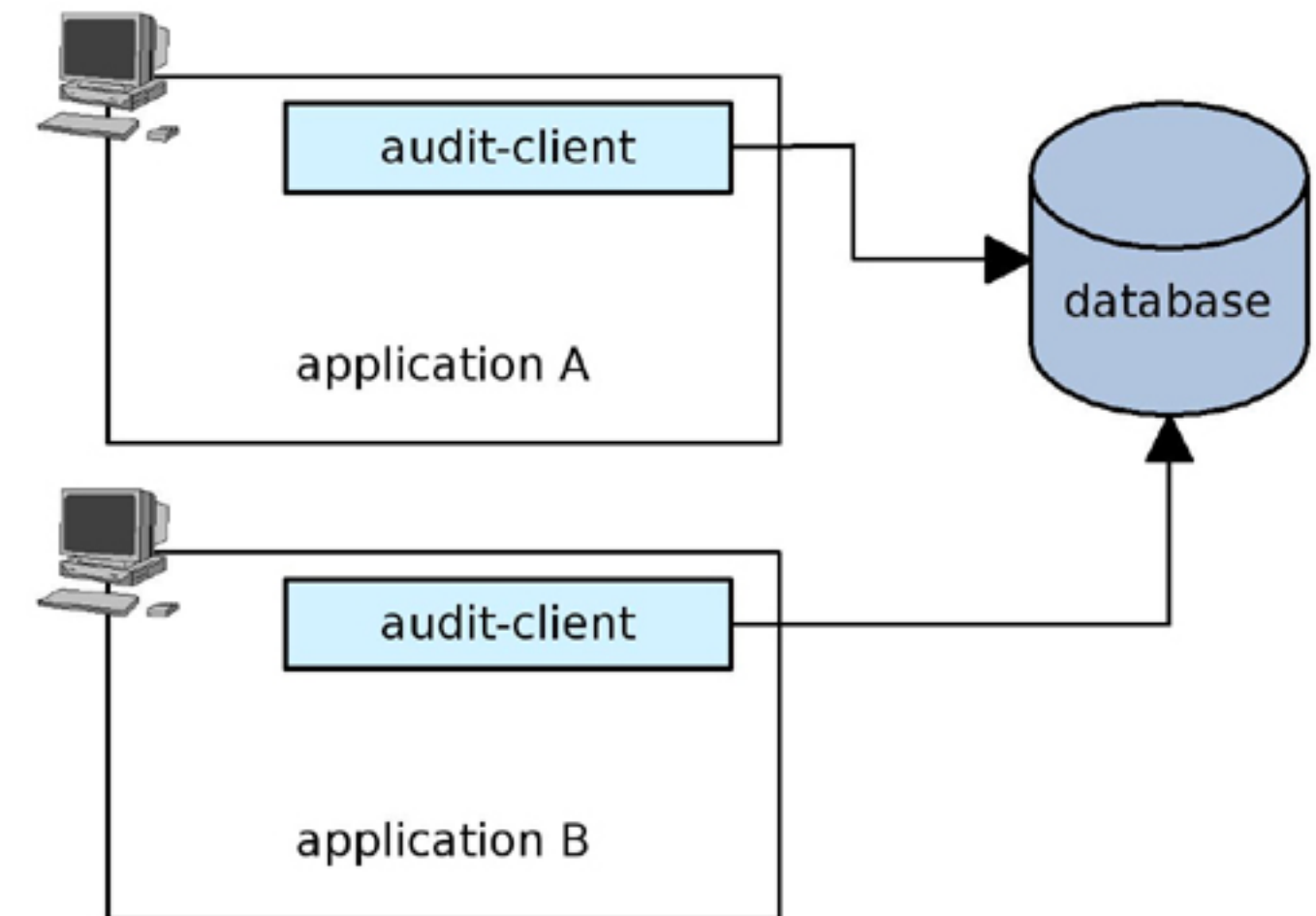
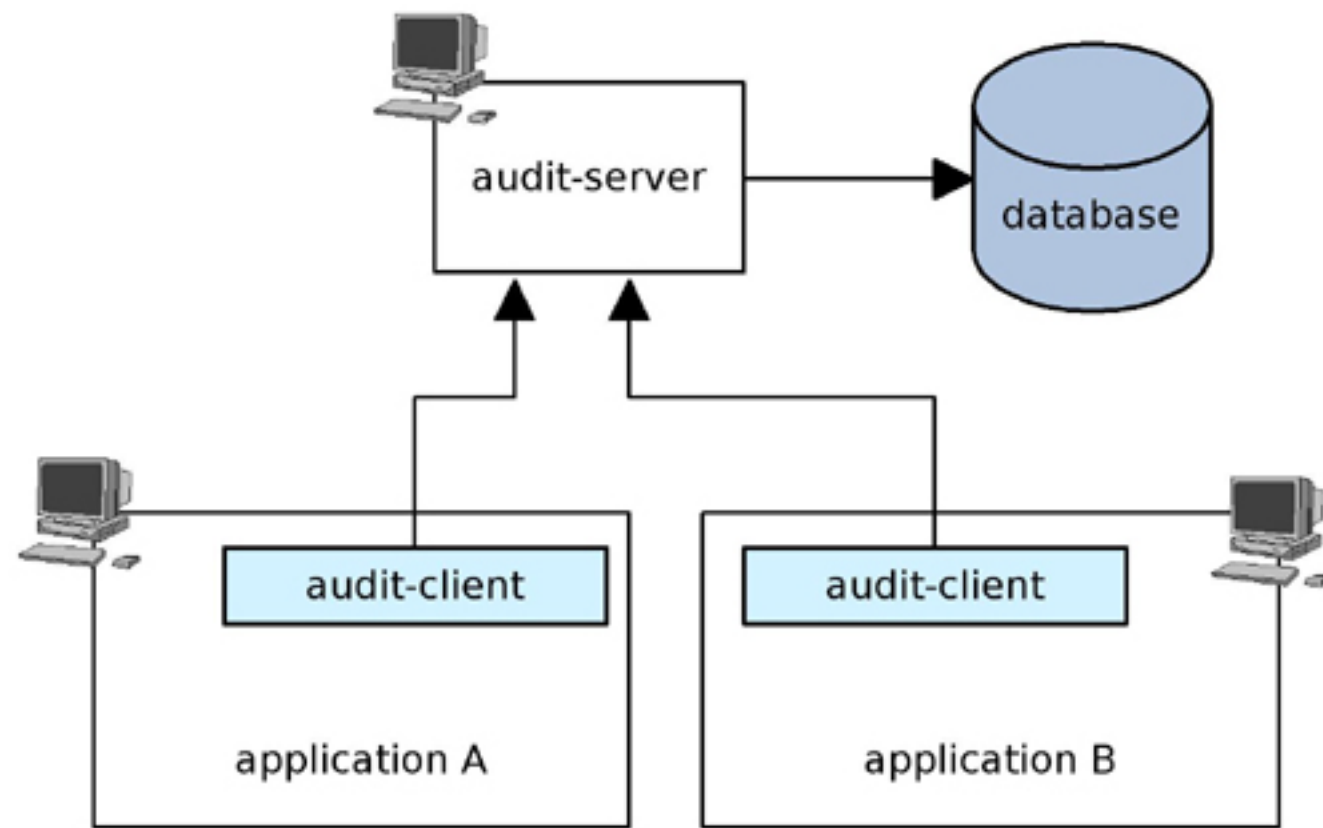
3

5.5



攘外不忘安内

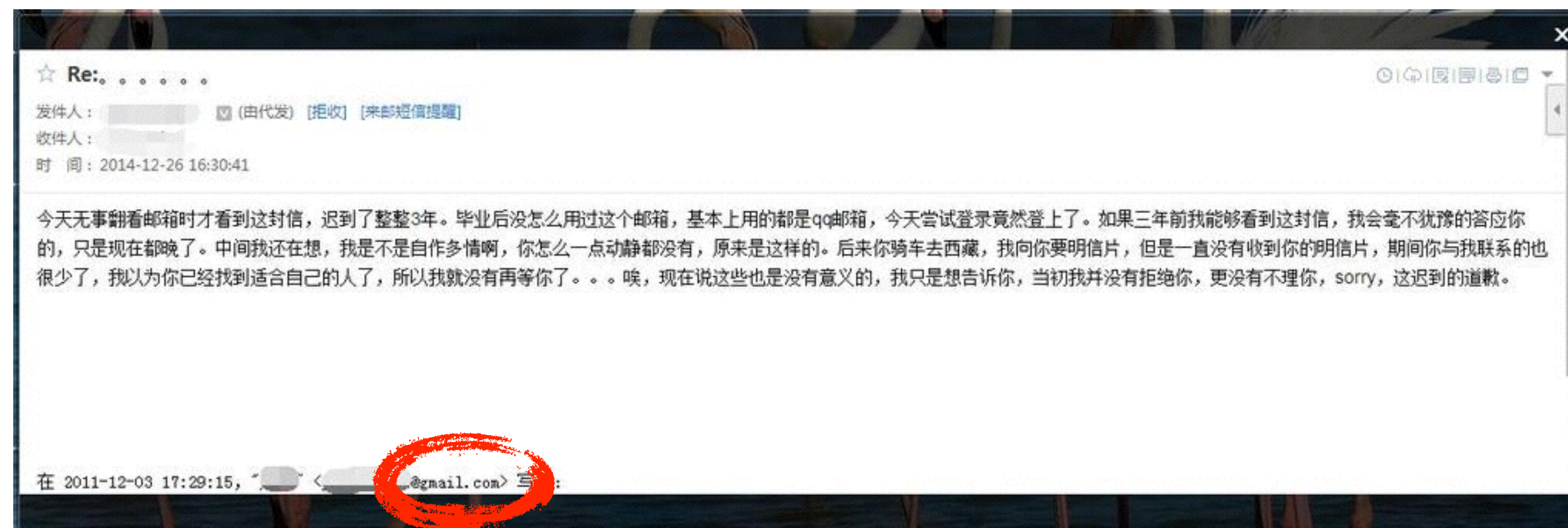
Everywhere





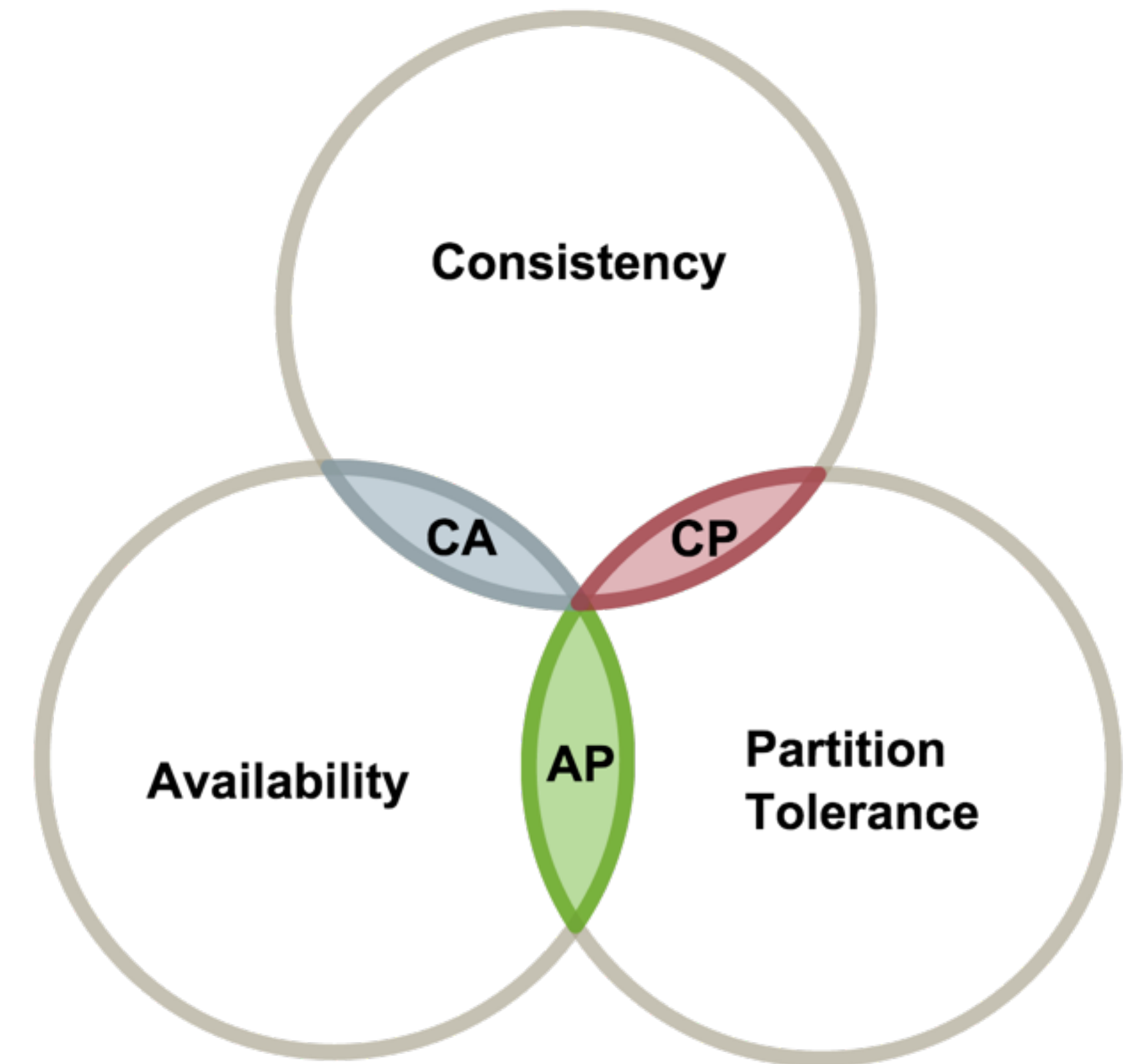
Where U Going?

6. Redundancy Everywhere



Storage

- Taming MySQL As Per Our Needs
 - Async Replication
 - Multi-write
- Resort to proper commercial solutions
 - If you are fucking rich ;-)

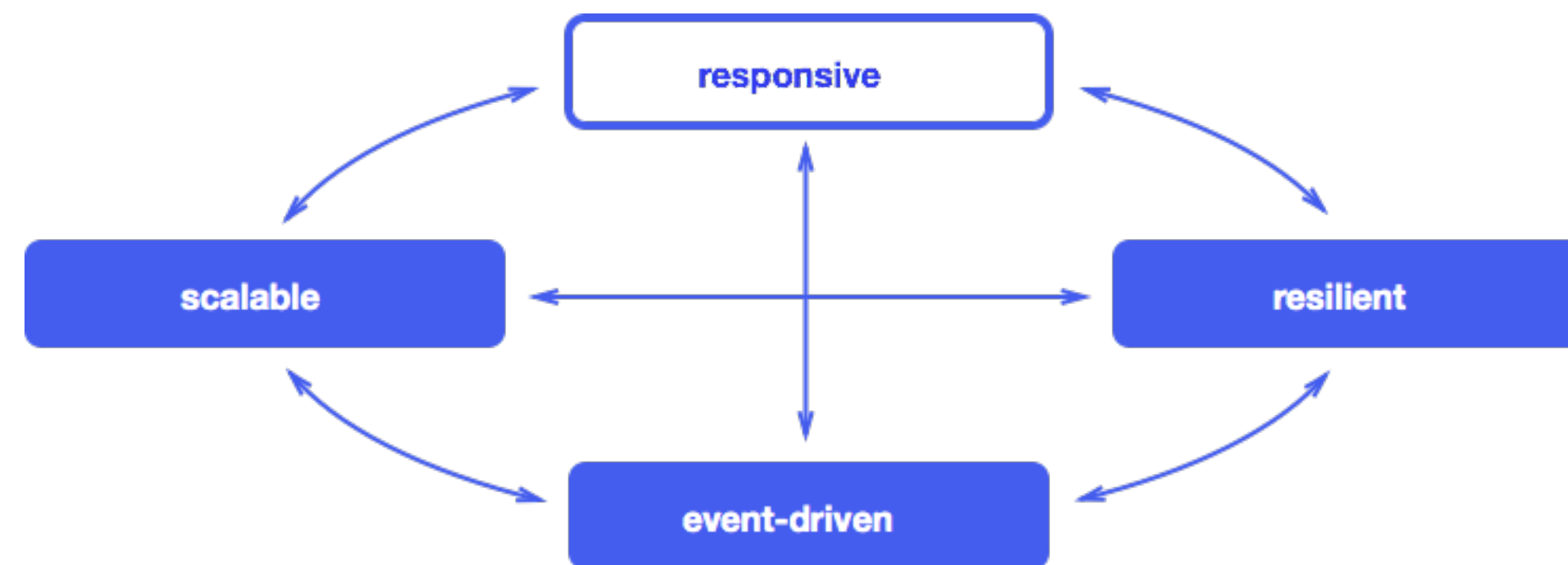


Computation

- Binary Star
 - Zookeeper As coordination service
- Clustering
 - Zookeeper/DNS As Service Registry Service
 - Raft/Paxos is great, but we can't manage it well yet.

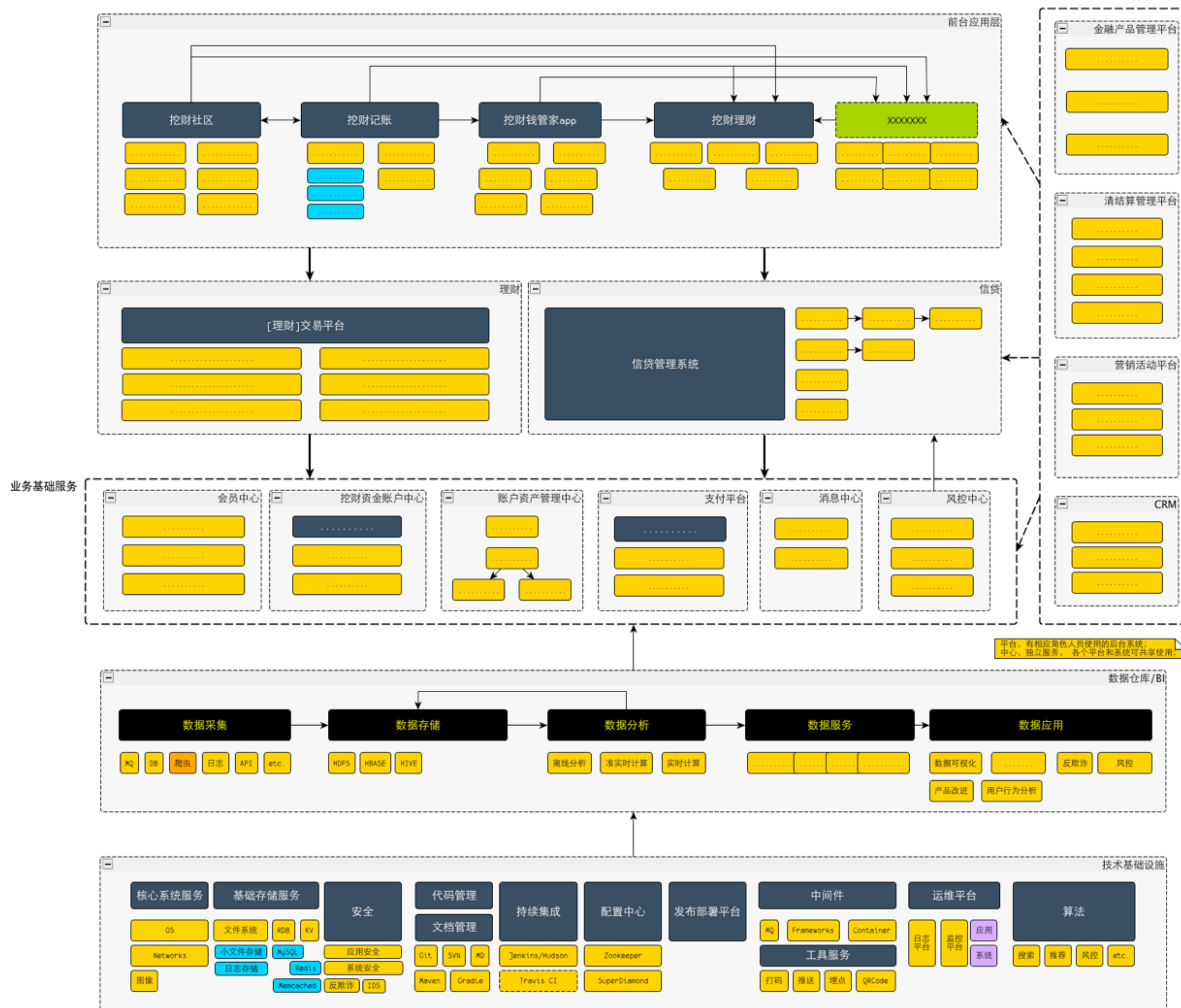
Final Destination

7. Reactive Everywhere



“No man ever steps in the same river twice”

–I don't fucking know who said it.



We
are
Here,

BUT
STILL
on
THE
road

....

still expecting
funny & **amazing** guys to
JOIN US!

让简历砸来得更猛烈些吧~, amen~

yunshi [在] wacai [点/L] com

Thank you~

