



Hello



Denis Golovachev

Hello



Roman Zakharov [I don't have his photo, but this is quite close]







SPB



Saint-Petersburg



KRK



Krakov









Software Architect





Business Analytic



Data Streaming





The Streaming Data Platform as a heavy duty enterprise data marketplace When to use it in your project.

The case of MMA



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MMA - Multichannel Marketing Automation

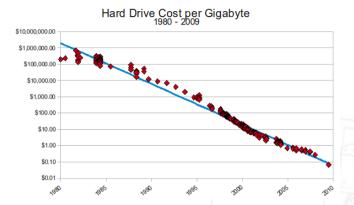


Small Introduction to



Streaming Platforms

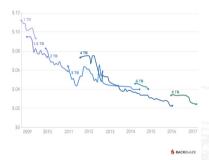




For the past 35+ years or so, hard drives prices have dropped, from around \$500,000 per gigabyte in 1981 to less than \$0.02 per gigabyte today



Backblaze Average Cost per Drive Size



[https://www.backblaze.com/blog/hard-drive-cost-per-gigabyte/]

- 2010 year countries could afford to store everything. i.e. USA PRIZM
- 2015 big companies could afford to store everything. i.e. Google
- 2019 everyone!?





[https://www.backblaze.com/blog/hard-drive-cost-per-gigabyte/]

A BACKBLAZE

So, the price is low, we store everything. [DRAFT] And i.e. if we're Facebook it's a tough question whether we should create a task for admins to create a script for housekeeping or just buy one more drive for storage.

Information = Money

But could we earn **more** money with all of this information we collecting.





That's what basically we do in our BigData field



Knight

Do you know this company?





The Knight Capital Group was an American global financial services firm engaging in market making, electronic execution, and institutional sales and trading.

With its high-frequency trading algorithms Knight was the largest trader in U.S.



Knight

- BigData
- Lot of analytics



Knight

On August 1st, 2012, Knight Capital deployed a new software update to their production servers. They switched it on and immediately they started losing literally \$10 million [£6.4m] a minute. And this went on for 45 minutes. At the end of it all they wound up having lost \$440 million





Humans still watch the systems, but **the computers move far too quickly for us to react to everything they do** - and at Knight Capital, the computer glitch meant the company was making trades it didn't intend to make. That's how to lose almost half a billion dollars in a little over half an hour.





My previous project



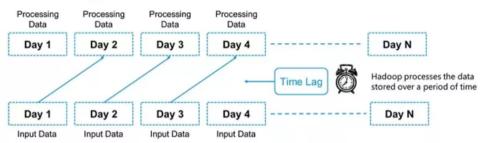


Fraud Detection System





Processing Data Using MapReduce



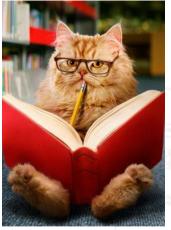
- Collect 24hrs
- Process 6hrs
- Block Fraudsters 10 minutes

We're loosing money!





We're loosing money!



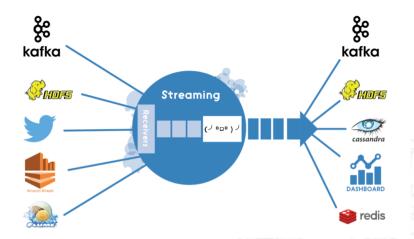
30hr lag →70 000\$ per day

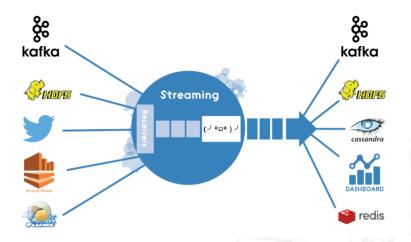
What could be improved here?











30hr →10mins And Fraudsters were Disappointed



Knight

Was not so lucky

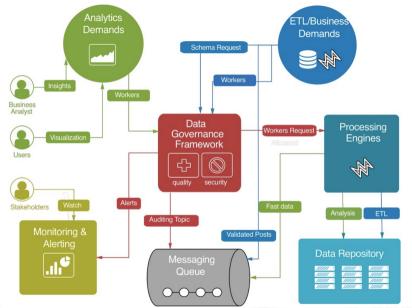


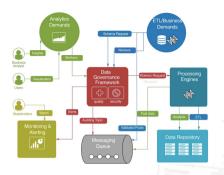


- Reduce reaction time
- Minimize risk surface
- Compete for best offers in market
- Give out customers what they need right in time

• ...







- Improve ETL
- Realtime Analytics
- Automated Governance
- Superior Visualization



References:

- https://en.wikipedia.org/wiki/Knight_Capital_Group
- https://www.bbc.com/news/magazine-19214294
- https://www.backblaze.com/blog/hard-drive-cost-per-gigabyte/

