

Presentation of “Building a database on S3”

Odd M. Trondrud

Presentation of seminar article
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Outline

Motivation

the assignment was mandatory

The Article

What's it about?

The proposed implementation

the general premise

what about that?

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What's it about?

- ▶ How to build a database on S3/AWS (pre simpleDB)
- ▶ S3: cloud based storage service employing a “pay for what you use” payment model
- ▶ why would you want to do that?
 - ▶ less infrastructure to maintain
 - ▶ means possible \$\$ savings
 - ▶ something about concurrency and scalability
 - ▶ come on peeps y'all know this stuff
- ▶ b-tree implementation on top of s3?
- ▶ implementations of different levels of consistency using S3

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the proposed implementation

- ▶ there's going to be an illustration here
- ▶ probably like at least two

is it any good?

- ▶ well it's from 2008
 - ▶ experiments results are like five years old
 - ▶ prices have probably changed (a lot could happen with an economy in 5 years)
 - ▶ latencies might not be the same (5 years is a long time on the internet)
 - ▶ amazon now offers “Simple DB” which seems to be pretty similar to what the article is doing with s3 although apparently simpleDB costs \$\$\$\$

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the good

- ▶ yeah it's pretty good if you want a scalable application
 - ▶ I mean who enjoys having to invest in physical infrastructure?
 - ▶ physical stuff requires maintenance
 - ▶ pay for what you use
 - ▶ the bill reflects actual usage
 - ▶ no initial costs

the less good

- ▶ pay for what you use
 - ▶ would suck to get ddos'd
 - ▶ if income doesn't approximately correlate with usage it could cost you money
- ▶ remember how the NSA is monitoring everything

alternatives?

- ▶ or something.
- ▶ probably a conclusion or something.