OST
Eastern Switzerland
University of Applied Sciences

Blockchain (BlCh)

In the news
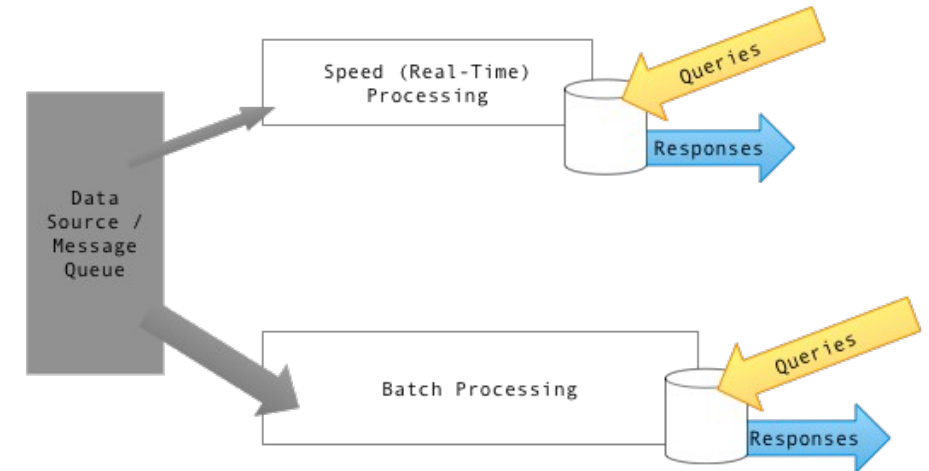
Thomas Bocek

17.11.2021

Distributed Systems & Blockchain in the News

- 30.09.2021: Swiss Post launches Switzerland's first crypto stamp [link]

  - Mention "blockchain" in the PR

  - Using ploygon - connection Ethereum blockchains – scaling solution for Ethereum, sidechain (MATIC)

- 17.11.2021: Bitcoin Crowd Appears High on 'Hopium' as 'Buy The Dip' Trends [link]

  - And it goes down again… [coinmarketcap]

- 15.11.2021: Taproot, Bitcoin's Long-Anticipated Upgrade, Has Activated [link]

  - 54% signaling taproot approve [link]

- Only miner with taproot can mine blocks, others can "validate"

- Wallets need to add support as well

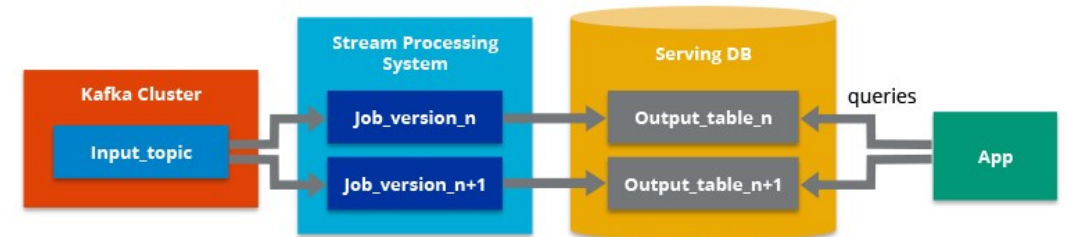- Medium TX ~13 USD

- Example of animated technical papers

  - https://textframe.app/examples/bitcoin

  - https://bitcoin.org/bitcoin.pdf

#	Name	Price	24h %	7d %	Market Cap	Volume(24h)	Circulating Supply	Last 7 Days
☆ 1	Bitcoin BTC Buy	$59,063.39	▾2.55%	▾11.34%	$1,116,397,399,511	$43,122,924,168 / 729,105 BTC	18,875,606 BTC	
☆ 2	Ethereum ETH Buy	$4,140.21	▾3.06%	▾12.04%	$490,037,553,044	$25,265,997,172 / 6,103,353 ETH	118,375,384 ETH	
☆ 3	Binance Coin BNB Buy	$559.39	▾7.53%	▾13.35%	$93,247,017,214	$3,252,056,118 / 5,817,309 BNB	166,801,148 BNB	

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Distributed Systems & Blockchain in the News

- 22.10.2021: Processing billions of events in real time at Twitter [link]

  - Technology mix: Hadoop, Vertica, Manhattan distributed databases, Kafka, Twitter Eventbus, GCS, BigQuery, and PubSub

  - Improve Ads

  - Changing from Lambda architecture to Kappa

    - Lambda: batch and stream-processing, challenges: complexity

  - Kappa: perform both real-time and batch processing with a single stack

    - Less complexity, stream processing for real-time and historic data

    - Alternative approach

https://commons.wikimedia.org/wiki/File:Diagram_of_Lambda_Architecture_(generic).png

https://hazelcast.com/glossary/kappa-architecture/