

FS20

DISTRIBUTED SYSTEMS

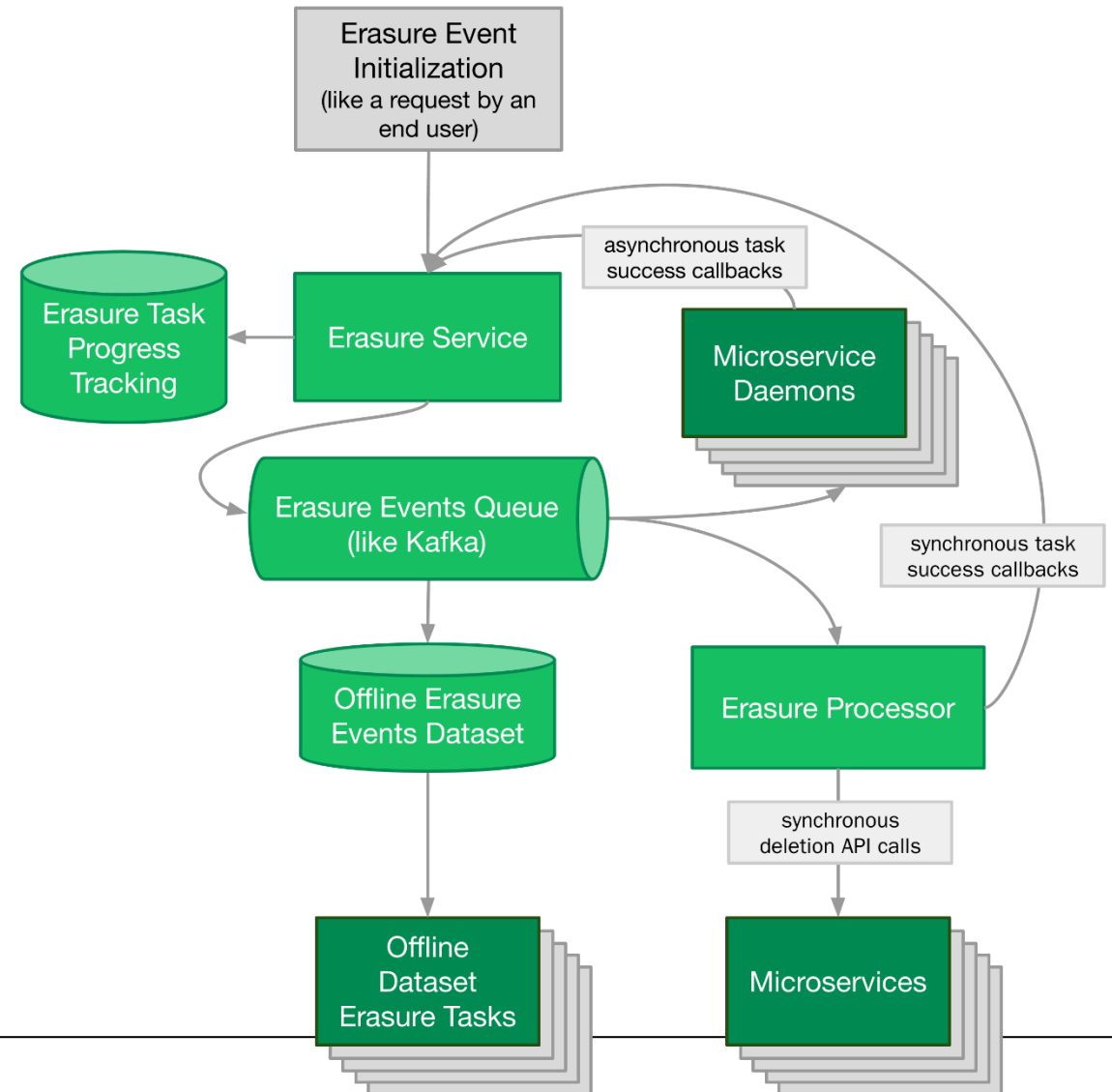
In the news, week 20

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■ 04.05.2020: Deleting data distributed throughout your microservices architecture

- “Microservices architectures tend to distribute responsibility for data”
- Data distributed, challenge to delete data
- At Twitter: “erasure pipeline”
 - data discoverability, access, and processing
- Three ways to access data
 - (1) a real-time API
 - (2) an asynchronous mutator
 - (3) a parallel-distributed processing framework
- Future Direction: “The complexity of an erasure pipeline can be greatly reduced by implementing an abstraction like a data access layer”
 - IMHO, this adds complexity



■ 10.05.2020: Bitcoin Halving Is Almost Here: Will Bitcoin Go to the Moon?

- Now for every Bitcoin block, a miner gets 12.5, tomorrow a miner will get 6.25
- Bitcoin Halving: lecture 9: will happen with block [630000](#), [now](#) 629937 – in ~10h
 - “In the short term, the network hash rate will decrease. This is due to the disconnection of old equipment by the miners, which, at current electricity prices, will no longer be able to operate profitably.”
- [Market price?](#)

■ 21.02.2020: 5 AWS Services You Should Avoid!

- Opinion!
 1. Cognito
 - Many edge cases
 2. CloudFormation
 - “template files is super verbose”
 3. ElasticCache
 - “It is expensive”
 4. Kinesis
 - “It is both cumbersome and difficult to apply Kinesis stream correctly”
 5. Lambda
 - “Lambda is horrible for: A replacement for REST API endpoints.”

Questions?



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