

AWS

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SUMMIT



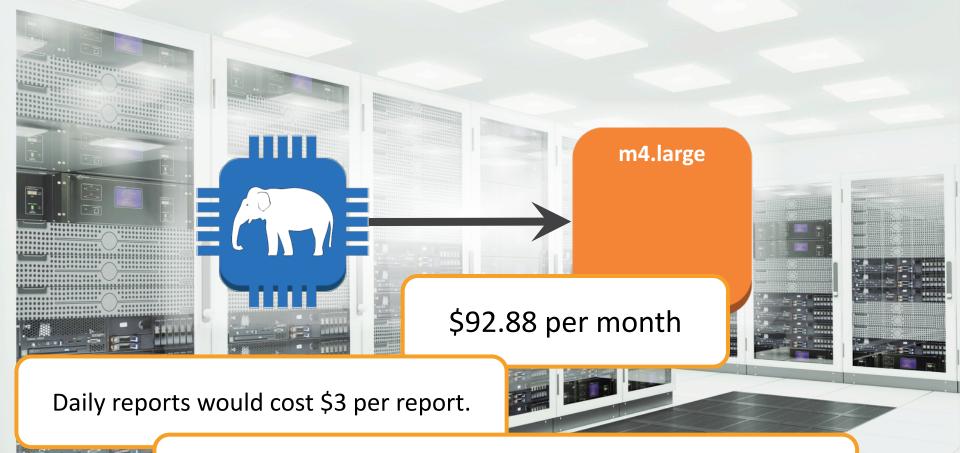
Scaling S	Seamlessly to Millions of Devices with Se Architectures	rverless
	Architectures	
	Dr. Thomas Fuhrmann, AWS Professional Services	
	Thomas Fullmann, Avio Fiblessional Services	
	18 May 2017	
	10 May 2017	
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Speaker's Bio





Hanibal is renting out elephants to deliver goods. Tracker sends position and other telemetry once per minute.



But 100 reports per day would only cost \$0.03 per report.

How many reports do we expect?



How many reports will our EC2 instance support?



Professional Services

No servers – No sizing!

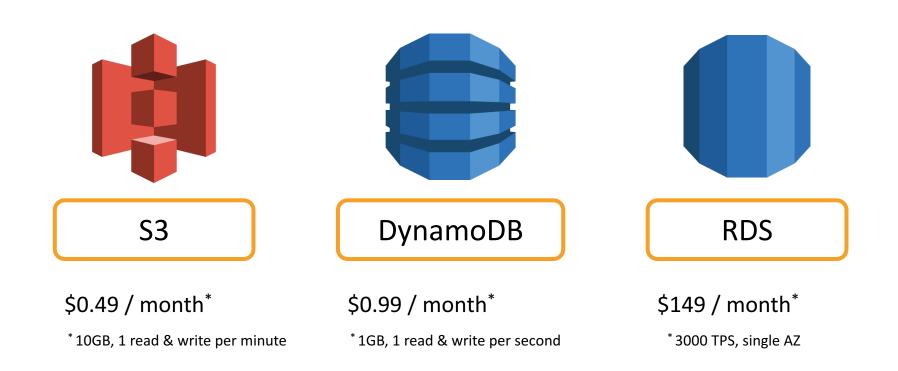
\$5.00 per 1M messages

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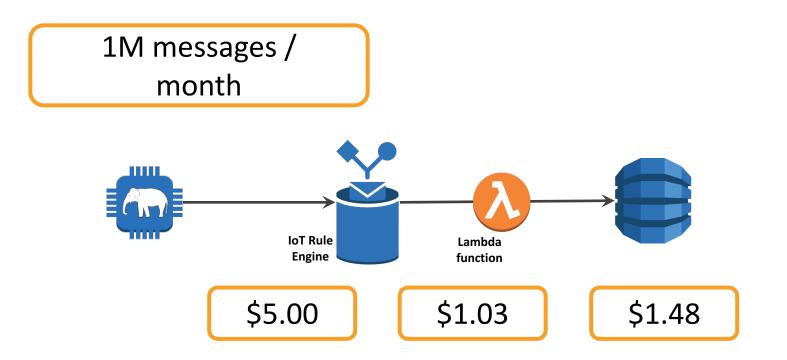
\$1.03^{*} per 1M messages

*512MB•100ms per message

What about persistence?



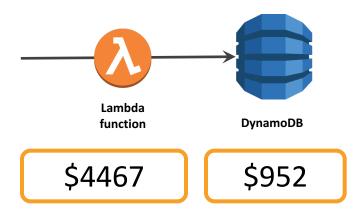




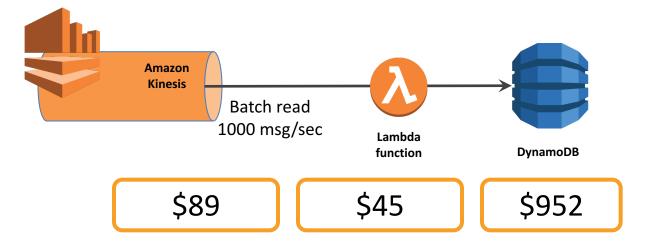


100k camels reporting once per minute

4.32bn messages per month

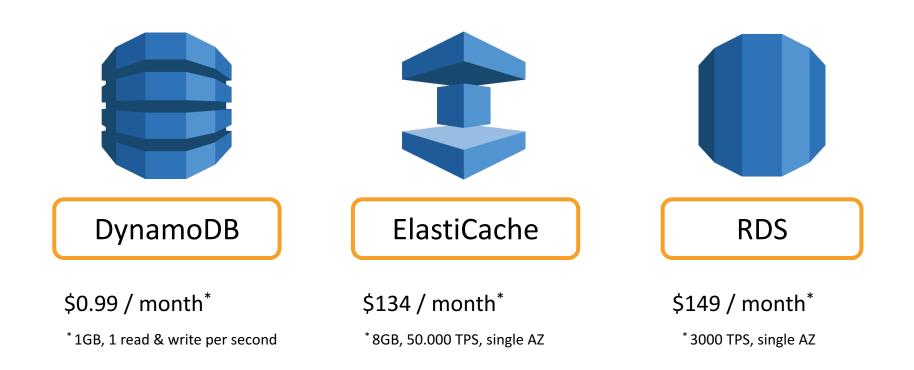




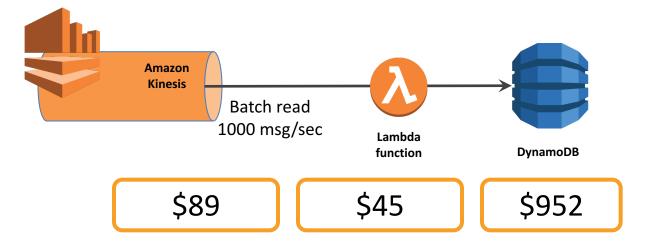




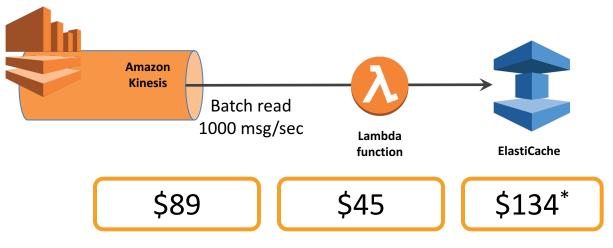












* Lightly loaded: 6M messages per hour; capacity 180M operations per hour

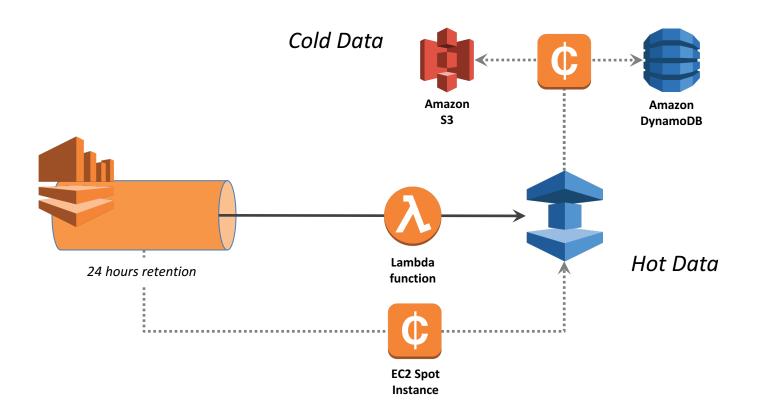


Kinesis, Lambda, and ElastiCache:

¢0.25

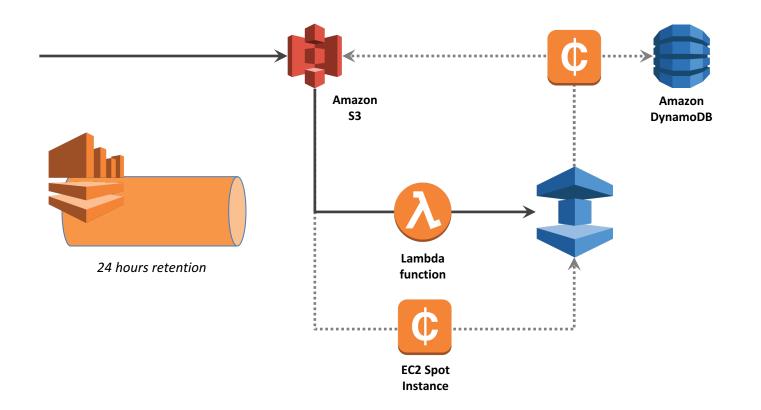


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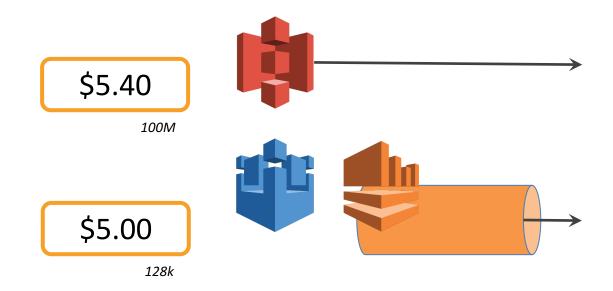






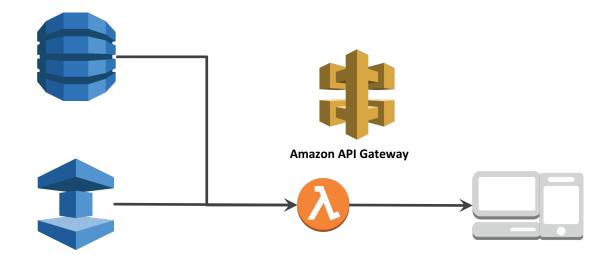






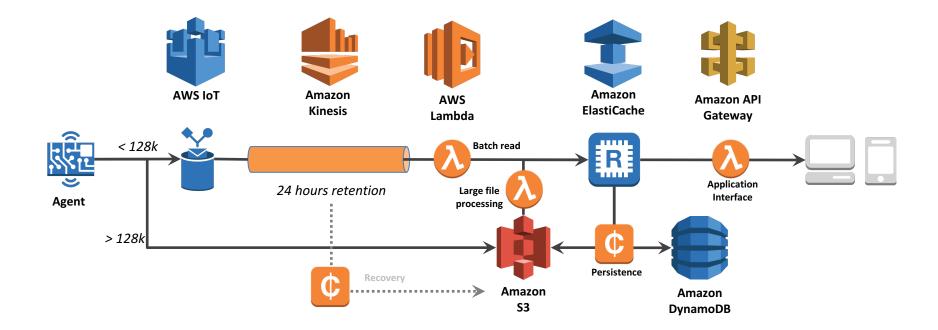






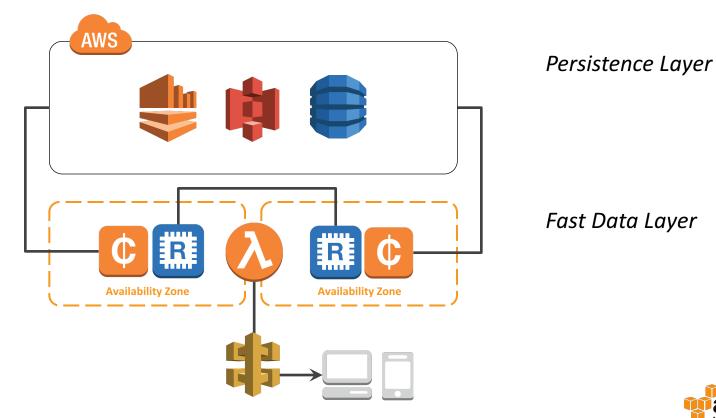


Serverless Architecture





Separate Persistence from Access



amazon Professional Services

Pricing in a Serverless World

Fix cost (per month):

- \$13 Kinesis Shard
- \$13 ElastiCache
- \$1 DynamoDB

Variable cost (1M messages):

- \$5.00 loT
- \$1.03 Lambda





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S U M M I T

Thank you!

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webservices

Professional web services