AWS Lambda - Overview and Use Cases

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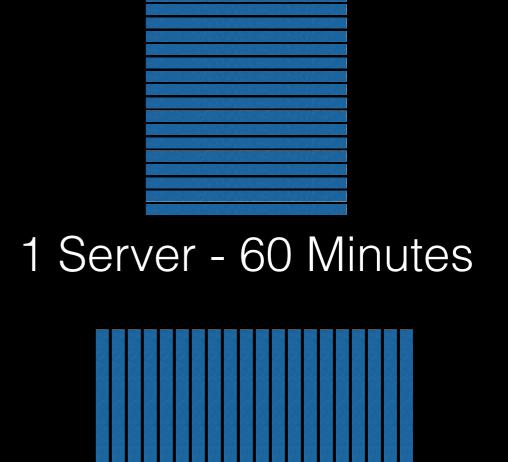
Cloud Experience?

- Amazon Web Services (AWS)
- Microsoft Azure
- Google App Engine
- Heroku
- Rackspace
- DigitalOcean



Basic Cloud Principles

- Not a silver bullet
- Horizontal Scaling
- Pay as you Go



Traditional Servers vs. Cloud

- Pets vs. Cattle
- Different names by providers:
 - Amazon Elastic Cloud Compute (EC2)
 - Azure Virtual Machine (VM)
 - Google Virtual Machine Instance
- Shared Tenancy
- Pay for when it is turned on
- Level of Indirection/Abstraction



AWS Lambda

- Yet another level of indirection
 - Just give me the code!
- Run off of any of a number of triggers
- Pay based on memory size chosen and time to execute code
- Infinitely Scalable



Use Cases

- https://github.com/capitalone/cloud-custodian
- https://acloud.guru
- Slack Bots
- Mobile Application Backends
- Alexa Skills
- Cloud Integration with Hardware Hacks
- Run code on a schedule
- Anything else you can create!

Walkthrough

- Write-up version available on GitHub: https://github.com/andrewalexander/lambda-talk
- API Gateway + DynamoDB + Lambda = Fully featured Backend
 - Compare to Express/Strongloop + MongoDB + Server