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GOING SERVERLESS WITH
AZURE FUNCTIONS

PHIDIAX 

Jeff Stagg- Phidix, LLC
Senior Collaboration and Cloud Architect

Agenda



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- ☐ Introduction
- ☐ Microservices
- ☐ Serverless
- ☐ Azure Functions
- ☐ Demo
- ☐ Questions

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Introduction



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- Jeff Stagg
 - ▣ Senior Collaboration and Cloud Architect
 - ▣ JavaScript
 - ▣ JeffStagg@PhidiAx.com
 - ▣ <http://www.jeffstagg.com>



Microservices



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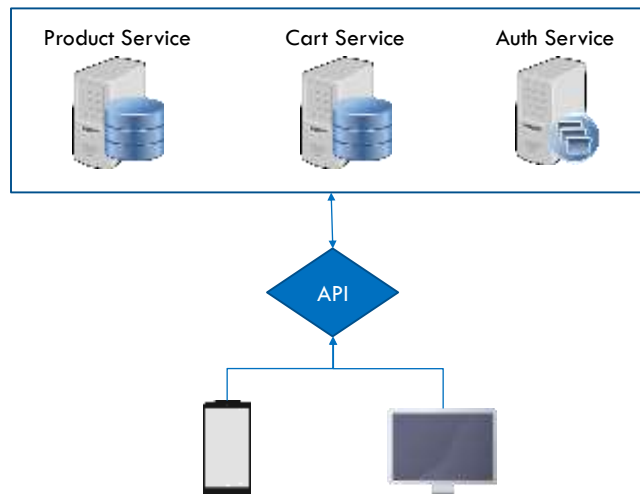
- Architecture
 - ▣ Single application, small suite of services
 - ▣ Independently deployable
 - ▣ Can be different languages
 - ▣ Manage only what the service needs
- Deployment
 - ▣ VM with OS of choice
 - ▣ Install necessary software and updates
 - ▣ Launch application and make ports available
 - ▣ Maintain VM



Microservices



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Serverless

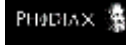


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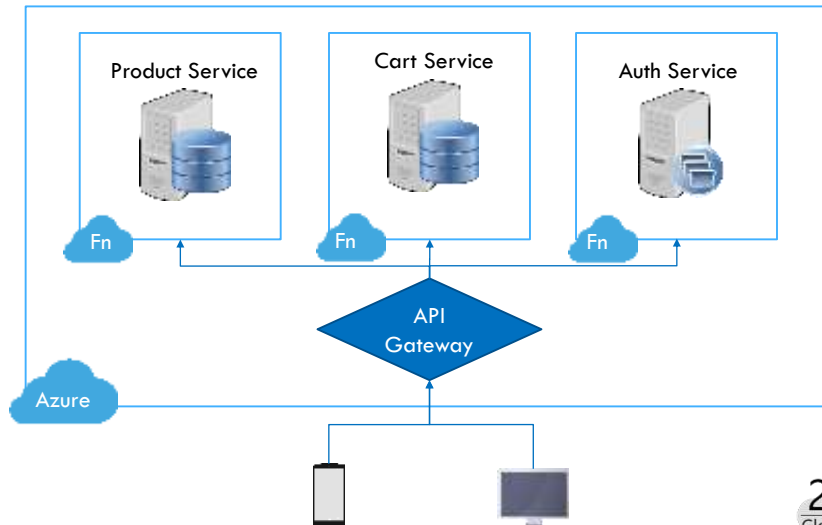
- Architecture
 - ▣ Microservice deployed to 3rd party service
 - ▣ All the benefits of microservices
 - ▣ Low-cost, and low maintenance
- Deployment
 - ▣ Deploy code directly to 3rd party service
 - ▣ Configure available ports
 - ▣ VM maintenance is handled by 3rd party

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Serverless

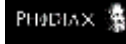


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Azure Functions



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- What are they?
 - ▣ Azure service to perform a simple transaction
 - ▣ Can be set up to run based on
 - Web hook (API endpoint)
 - Timer
 - Trigger (eg a file added to OneDrive)
 - ▣ Automatically scales for you
 - ▣ Build and debug directly in Azure Portal

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Azure Functions

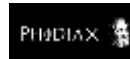


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- What are they?
 - ▣ Considers multiple programming languages
 - JavaScript
 - C#
 - F#
 - Python
 - PHP
 - Bash
 - Batch
 - PowerShell

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Demo

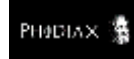


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- Simple web service
 - ▣ Takes POST with request body including a number
 - ▣ Returns FizzBuzz
- Tools Used
 - ▣ NodeJS
 - ▣ Visual Studio Code
 - ▣ POSTMan
 - ▣ Azure Portal
 - ▣ Source: <https://github.com/jeffstagg/fizzbuzz-node>

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Questions?



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