

About me... John Jacobs



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- Technology Consultant
- Principal Architect, Practice Leader at Credera
- Financial services, banking, telecom, eCommerce
- Primarily a JVM, open source guy
- Cloud, DevOps, Shared Nothing
- Texas A&M, UT San Antonio
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- 1 wife, 2 kids, 1 dog
- Outdoors, hiking, skiing,
 backpacking
 Microsoft



Today we will build a DevOps pipeline for a Javabased web app and run it in Azure app services

Agenda

- Business case
- Why Azure?
- Technology stack overview
- Create stack using ARM templates and cross-platform CLI
- Build and deploy from VSTS
- Monitor in production using Application Insights our eyeballs
- Fix a performance bug
- Release the fix to production Continuous Delivery, zero downtime

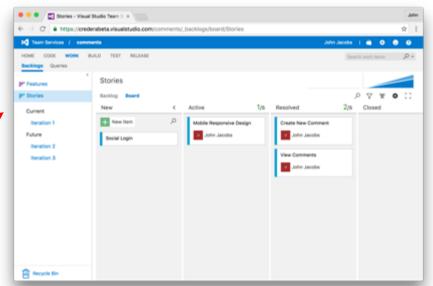




Technology exists to meet human needs – so how is this app helpful?

- I need something for a DevOps demo ☺
- Real time in flight feedback
- The app needs to be simple yet non-trivial something that we can deal with in one hour together
- Mobile responsive
- Social login so be nice!
- Zero downtime deployments

Let's track these features in Visual Studio Team Services!

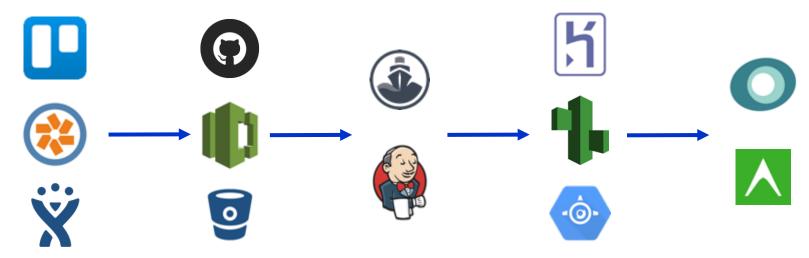






Why are VSTS and Azure App Services a good fit for our app?

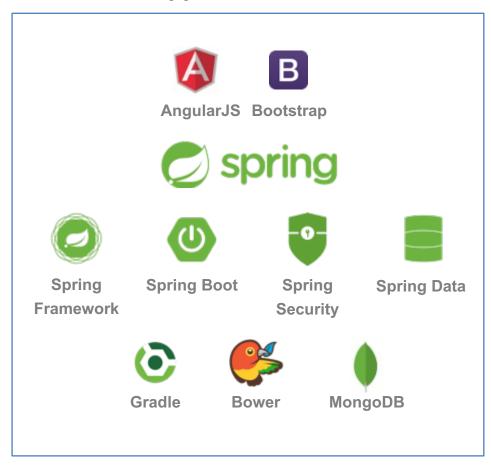
• In the open source world, we're used to stitching platforms together



- Integrating and maintaining all of this is time consuming, costly, (in)secure
- Azure and VSTS provide a "one stop shop" and a consistent tool set
- Servers are a pain, let someone else deal with patching and maintaining them

The Comments app is built on a modern JVM-based stack

Application Stack







Yeoman

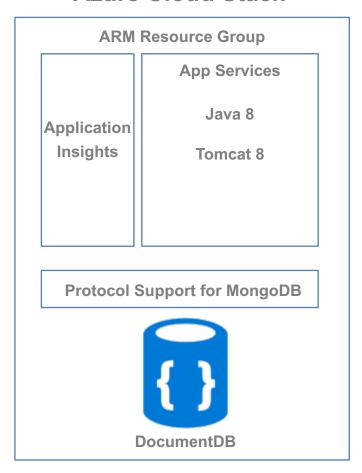


Let's build a DevOps solution using Azure and VSTS native tools

- ARM templates
- Resource Groups
- Azure cross-platform CLI
- bash scripts
- PowerShell scripts
- Azure web apps (PaaS)
- Deployment slots blue/green
- DocumentDB with protocol support for Mongo
- Visual Studio Code
- git, the old-fashioned way

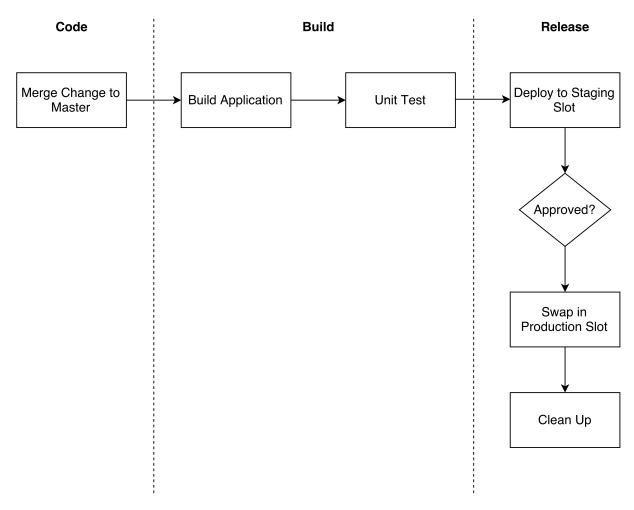


Azure Cloud Stack





The application has a simple Continuous Delivery pipeline pre-configured in VSTS







Enough slideware ... Let's see some code!

https://github.com/john99jacobs/msdevops

Participate! http://bit.ly/jjtalk





Thank you for your time today!

Questions?

https://github.com/john99jacobs/comments

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