

Moving Development Workloads to Azure

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April 29, 2019

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Agenda

Introduction

Benefits

Risks

Approach

Conclusion

Introduction

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Introduction

What This Is

- Brief overview of some Pros and Cons for moving development workloads to the Microsoft Public Cloud (Azure and Azure DevOps)
- High-level recommendation for a standardized approach to get started

What This Is NOT

- A full presentation of Azure offerings
- A silver bullet

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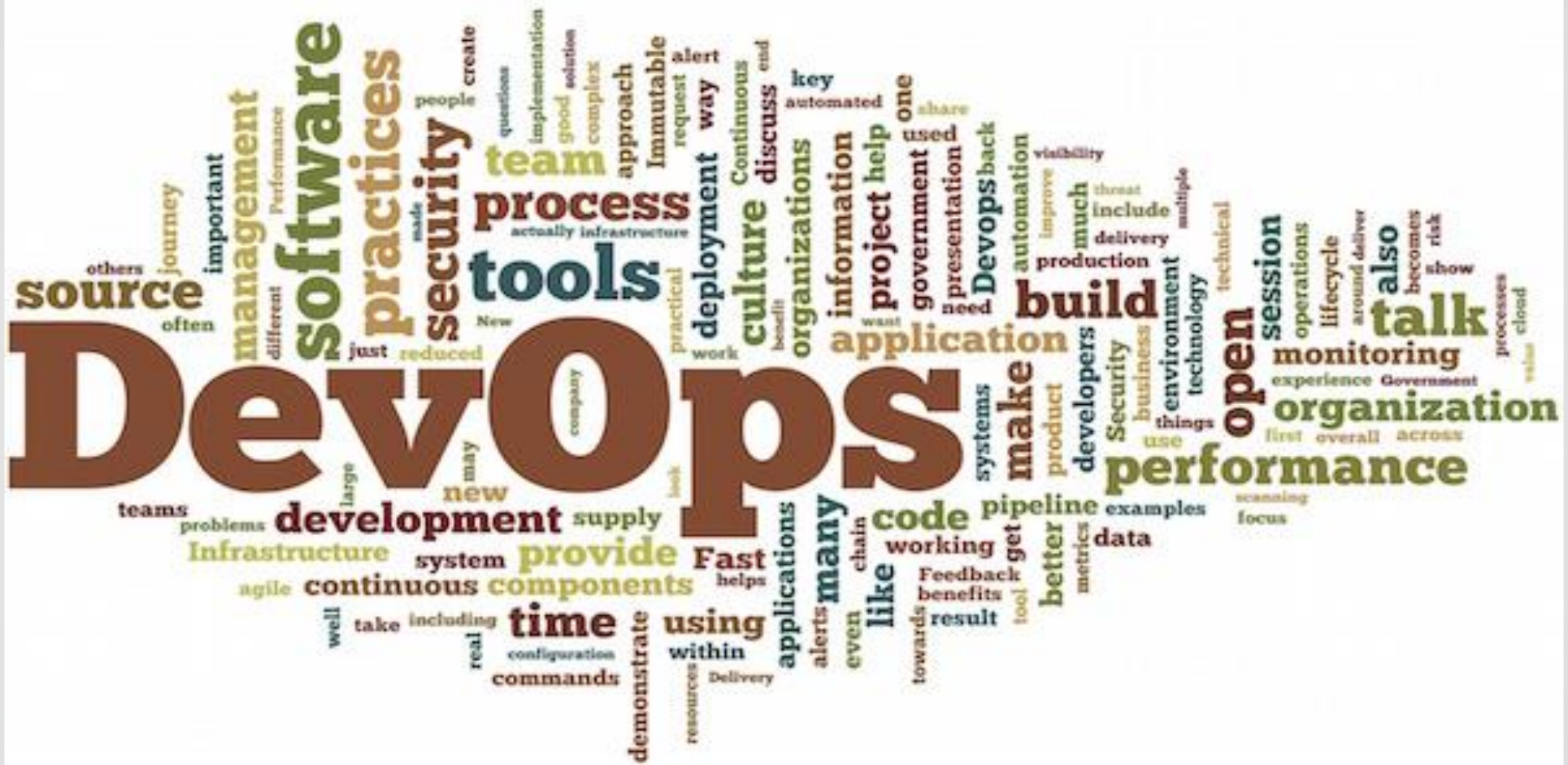
Why Listen to Me?

- West Point graduate
- Led 50+ teams, sized from 3 to 150+
- DevOps Coach
- Multiple DevOps transformations at household name clients
- “Honest broker”

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What is DevOps?

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DevOps is a Transformation

People

Culture

Training

Expert Help

Process

Workflow

Automation

Tools

SCM/VCS

Pipelines

Testing

Config

Etc...

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Collaborate

Build

Test

Deploy

Run

Application Lifecycle Mgmt.



Communication & ChatOps



Knowledge Sharing



SCM/VCS



CI



Build



Database Management



Testing



Artefact Management



Deployment



Config Mgmt./Provisioning



Orchestration & Scheduling



Cloud / IaaS / PaaS



BI / Monitoring / Logging



Communication

People

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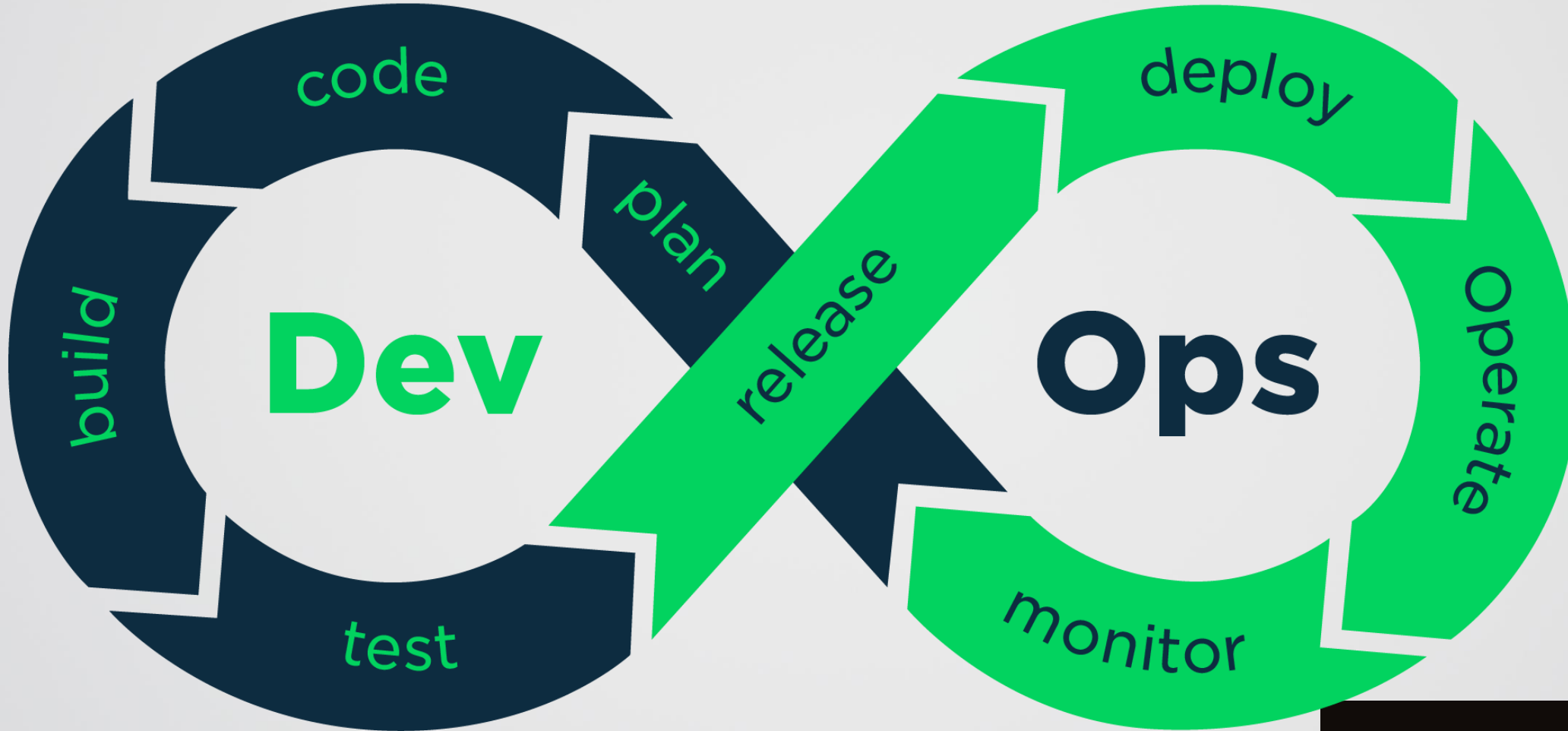
Etc...

Leadership and Culture

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The Infinity Loop



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**WORKED FINE IN
DEV**

OPS PROBLEM NOW

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**I DON'T ALWAYS TEST MY
CODE**



**BUT WHEN I DO I DO IT IN
PRODUCTION**

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A smiling man with short brown hair, wearing a teal button-down shirt and blue trousers, is sitting on a dark metal bench in a city street. He is looking towards the camera with a bright smile. The background shows a European-style street with historic buildings, a red awning, and a woman walking in the distance. A semi-transparent green rectangular overlay is positioned in the center-right of the image, containing the word 'Benefits' in white. In the bottom right corner, there is a dark grey rectangular box containing the 'transphorm' logo in white.

Benefits

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Speed

- Speed of Deployment
- Speed of Operation
- Speed of Scalability
- Speed of Failure



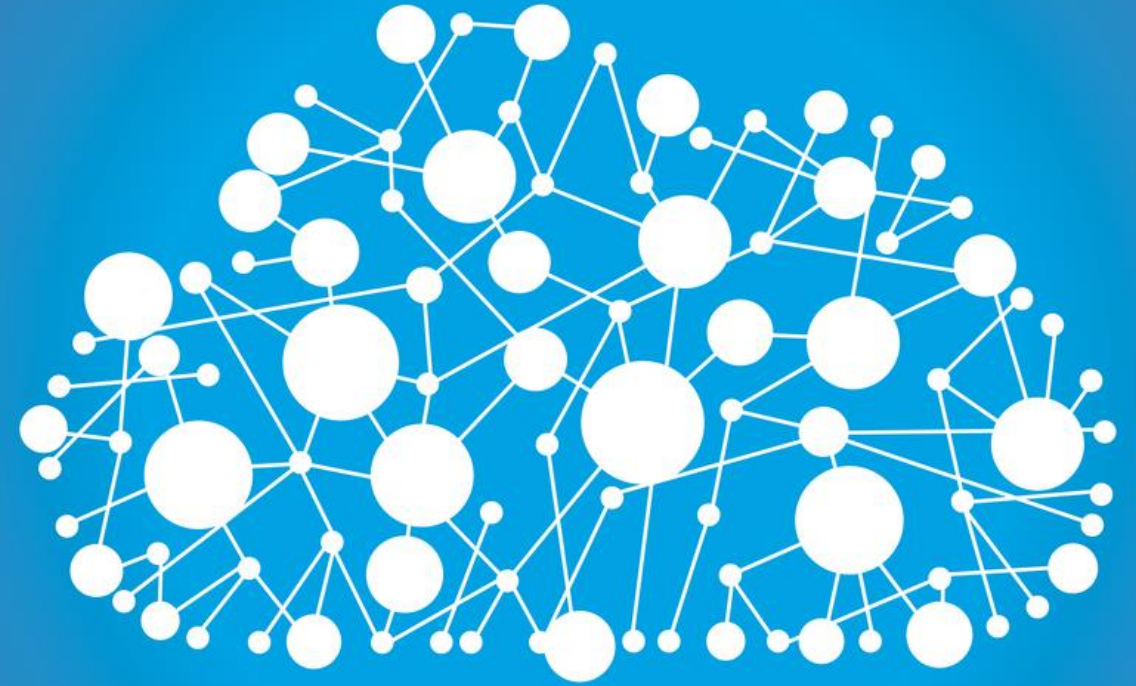


Increased Agility

- Faster development cycles
- Prevalent feedback loops
- Pay for only what you use
- Foster creativity & experimentation

Azure is Best-in-Class

- Services – IaaS, PaaS, CaaS
- Tools – Azure DevOps, VS
- Automation Enablement
- Deployment Flexibility



Risks



Risks

- Forfeiture of control
- Cultural shift
- Cost and ROI
- Lag in upskilling
- Business value articulation



Approach

Transformation Order of Operations

- Win: This means deliver **MEASURABLE BUSINESS VALUE**
- Don't Overthink It: Fix what hurts the most
- Leadership and Culture: Champion the DevOps mindset and The 3 Ways of DevOps
 - Flow – accelerate delivery of work from Dev to Ops to Business to Customer
 - Feedback – increase safety, reliability and predictability
 - Continuous Learning & Experimentation – high-trust culture and scientific approach
- Maximum Overdrive: Automate everything you can

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Recommended Approach

- Make an informed decision to choose the right first project; balance fixing what hurts the most with starting off with a definitive win.
- Go all-in with the latest Microsoft Tooling
 - Cloud Services – Go after a **CLOUD NATIVE** application/system running under Platform as a Service and/or Container as a Service
 - Azure DevOps – use everything: SCM/Repos, Work Management, Build/Release Pipelines, Automated Testing, Wikis
 - Automation is King – CI/CD/CD, ARM Template deployments, Testing
- Favor additional feedback loops early on
- Invest in experts; make them deliver training

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Conclusion

DevOps is a Transformation

People
Process
Tools

Leadership
&
Culture

Communication

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Build a Culture of Excellence

- Excellence in DevOps, as all things, can start anywhere in the organization and radiate out.
- Build empowered, self-organizing teams.
- Hoard blame.
- Share credit.

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More Information

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- Technology Transformation Advisory Services

www.mack24x7.com

- Leadership and Technology Blog

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