

# Moving Development Workloads to the Cloud

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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 Public Cloud (AWS, Azure, etc.)
- High-level recommendation for a standardized approach to get started

## What This Is NOT

- A full presentation of cloud 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

Culture

Training

Expert Help

## Process

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## Tools

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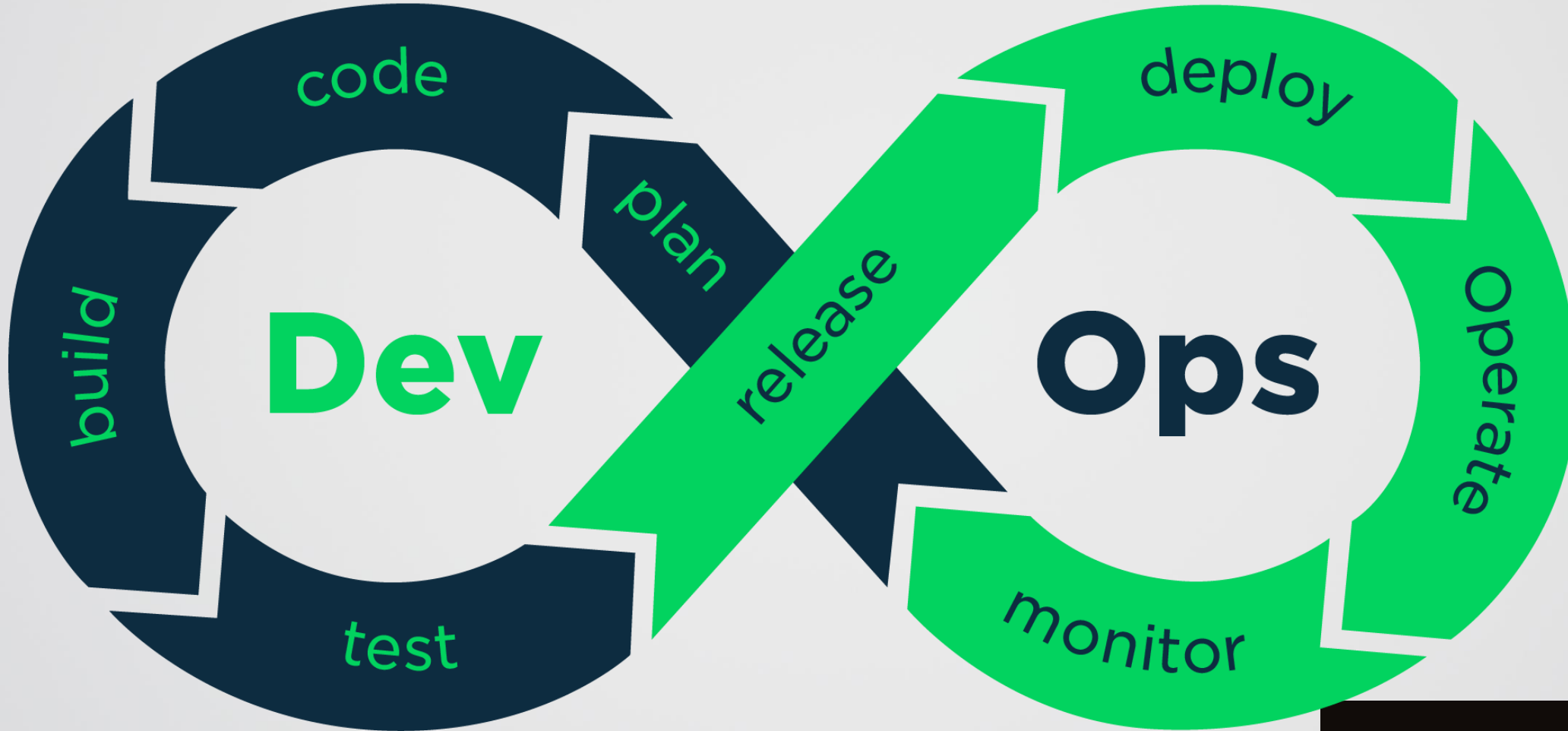
Etc...

# Leadership and Culture

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# The Infinity Loop



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**WORKED FINE IN  
DEV**

**OPS PROBLEM NOW**

memegenerator.net

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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. In the background, a woman with long brown hair is walking away from the camera. The street is paved with cobblestones, and there are historic buildings with arched windows and doorways in the background. A green semi-transparent rectangular overlay is positioned in the center-right of the image, containing the word 'Benefits' in white. The overall scene is bright and sunny.

# Benefits

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# Speed

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





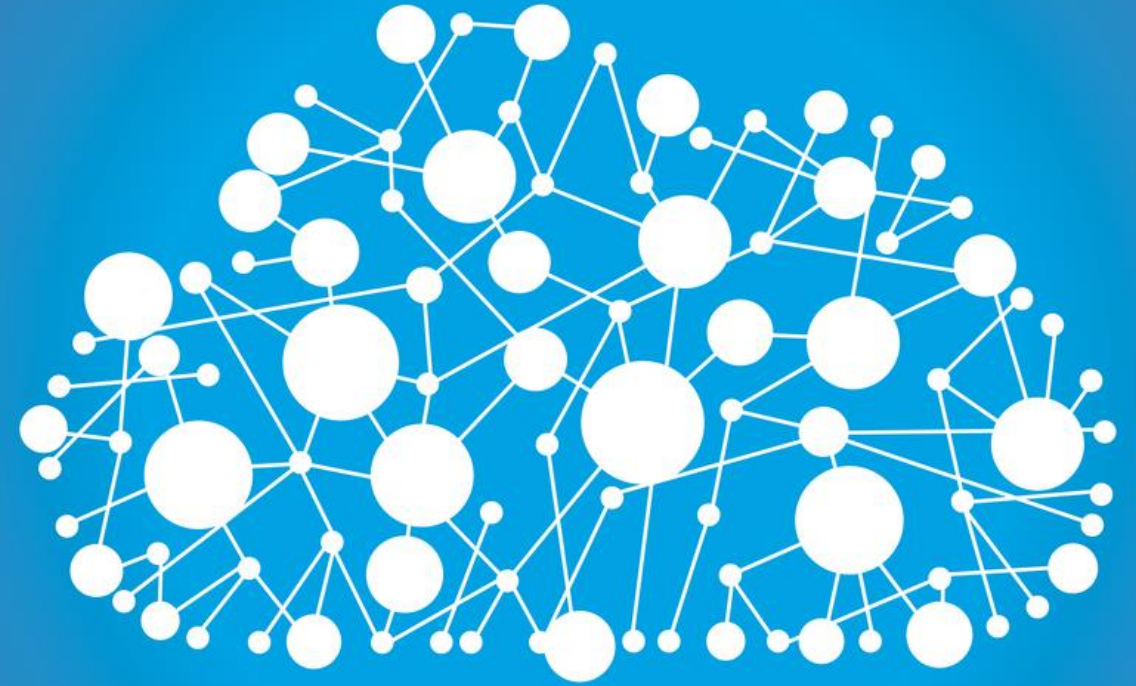
# Increased Agility

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



# Cloud Ops is *Awesome!*

- Services – IaaS, PaaS, CaaS
- Tools – Proprietary, OSS
- 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 Tooling
  - Cloud Services – Go after a **CLOUD NATIVE** application/system running under Platform as a Service and/or Container as a Service
  - Use everything you can: SCM/Repos, Work Management, Build/Release Pipelines, Automated Testing, etc.
  - Automation is King – CI/CD/CD, Resource Deployment, Config, 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

[www.transphormtech.com](http://www.transphormtech.com)

- Technology Transformation Advisory Services

[www.mack24x7.com](http://www.mack24x7.com)

- Leadership and Technology Blog

Social: @mack24x7

LinkedIn: [www.linkedin.com/in/joemack](http://www.linkedin.com/in/joemack)

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