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Application Performance Monitoring

Microsoft

Morgan Webb | Technical Evangelist
@morgan_msft

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Course Agenda

Application Performance Monitoring (APM)	
01 | Overview of APM	03 | System Center
02 | Application Insights	04 | Closing

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01 | Overview of APM

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Module Overview

- Manage & Operate Applications
  - Approach and Benefits
- Overcome the DevOps disconnect
  - What is DevOps & What is driving DevOps
- Complete APM solutions
  - Server-side & Client-side
- Managing applications across multiple clouds
  - Private, Public & Hybrid
- Application Lifecycle Management Overview
  - The right tools for the job
  - Introduce AI & SC tools

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Manage & Operate Applications

- Approach
  - Manage and monitor traditional, private, and public cloud applications
  - Deliver performance driven management of applications with deep application insight and diagnostics
  - Proactive monitoring and reporting at an application level
- Benefits
  - Deliver applications across private and public clouds allowing you to run applications where best suits your needs
  - Simplify the management of applications and their updating and configuration changes
  - Decrease the MTR with genuine root-cause analysis and diagnosis
  - Empower application owners to manage and maintain their applications

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Overcome the DevOps disconnect

- What is DevOps?
- What is driving DevOps?
  - The Application Lifecycle Management framework
- Enterprise DevOps
  - Reduce MTTD
  - Reduce MTTR
  - Continuously Improve

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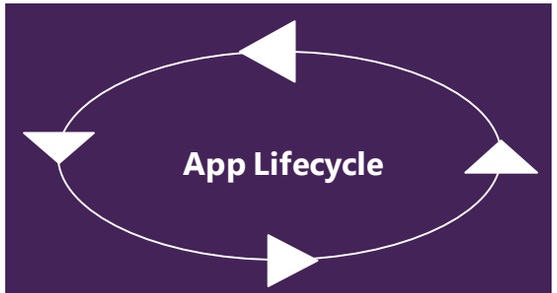
What's DevOps?



DevOps is a full lifecycle investment

DevOps is a team undertaking

DevOps enables better software development and delivery practices

DevOps accelerates the last mile of continuous delivery

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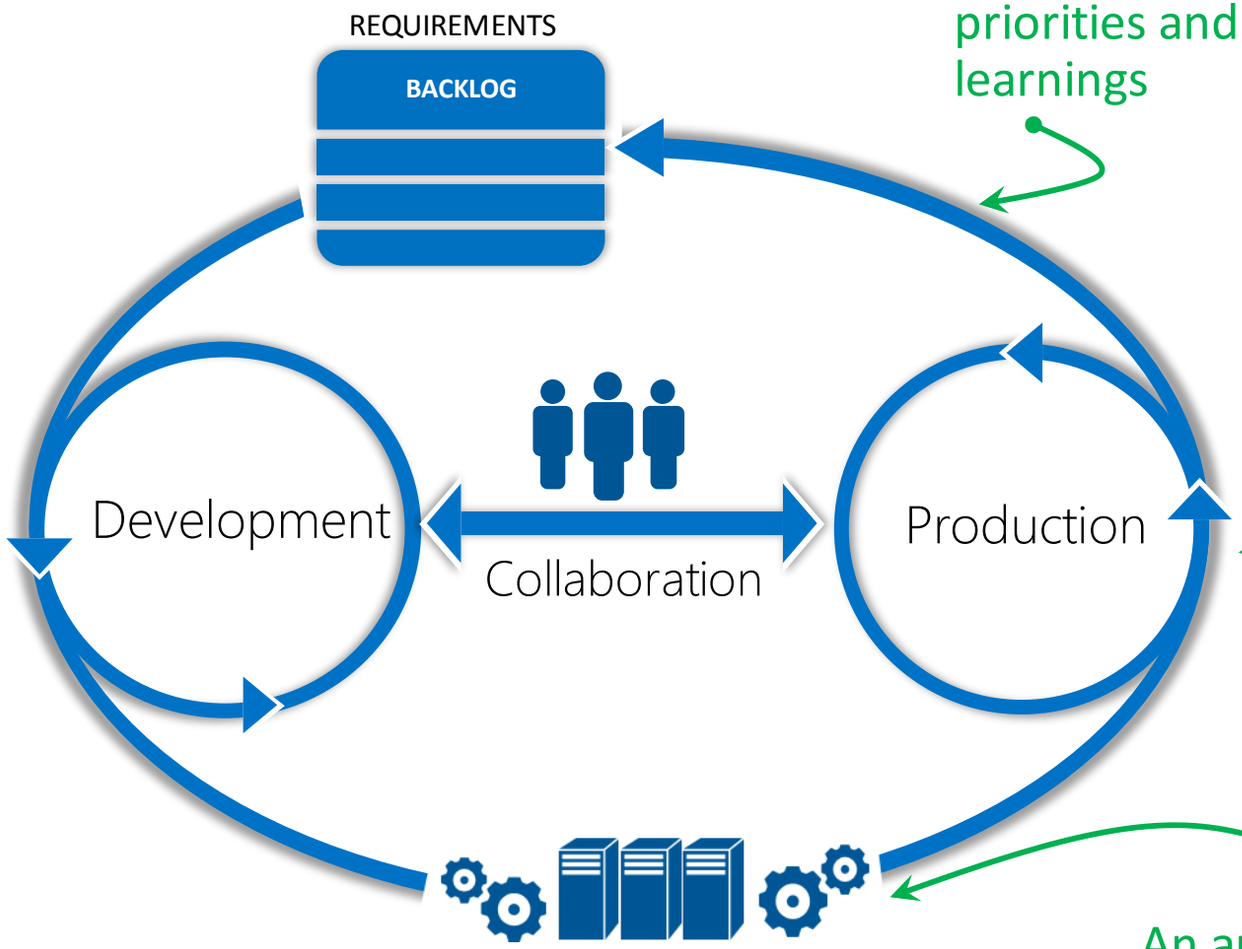
What's driving DevOps?

Usage should determine the next set of priorities and learnings

Availability and performance issues are hard to troubleshoot in this fast-changing world with distributed applications



The agile methodologies are accelerating the construction process

An automated release pipeline is needed to deliver at the pace of development with full traceability

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Enterprise DevOps

- Reduce MTTD - Know before your customers know
  - Get 360 degree view to application's health
  - Check service availability through global service monitoring
  - Automatic Alerts whenever your application is not responding
- Reduce MTTR - Quickly uncover the root of live issues
  - Detect if the problem is your code or your dependencies
  - Get actionable production diagnostics
- Continuously improve
  - Identify systemic issues and trends
  - Prioritize new features, bug fixes and strategic direction

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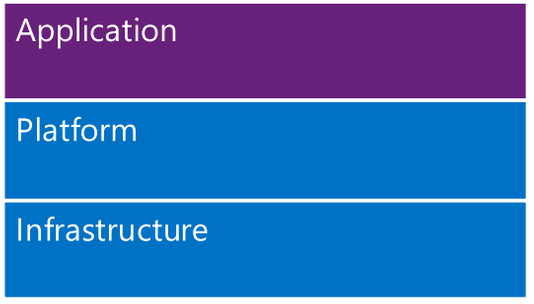
Complete APM solutions

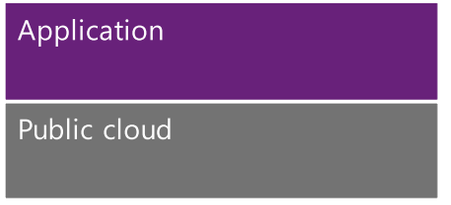
- Server-side
  - Monitoring the actual code that is executed and delivered by the application
- Client-side
  - End user experiences related
    to page load times, server and network latency, and client-side scripting exceptions

Managing applications across multiple clouds

- Private, Public & Hybrid



Private



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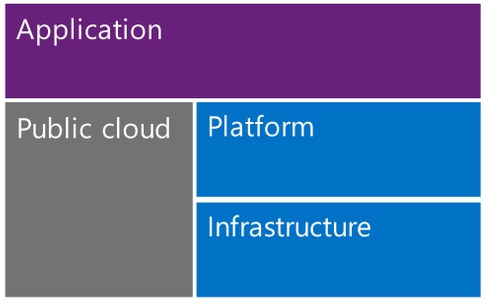

Hybrid

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Application Lifecycle Management Overview

- The right tools for the job
- Introduce AI & SC tools
  - Catering for the full Hybrid scenario

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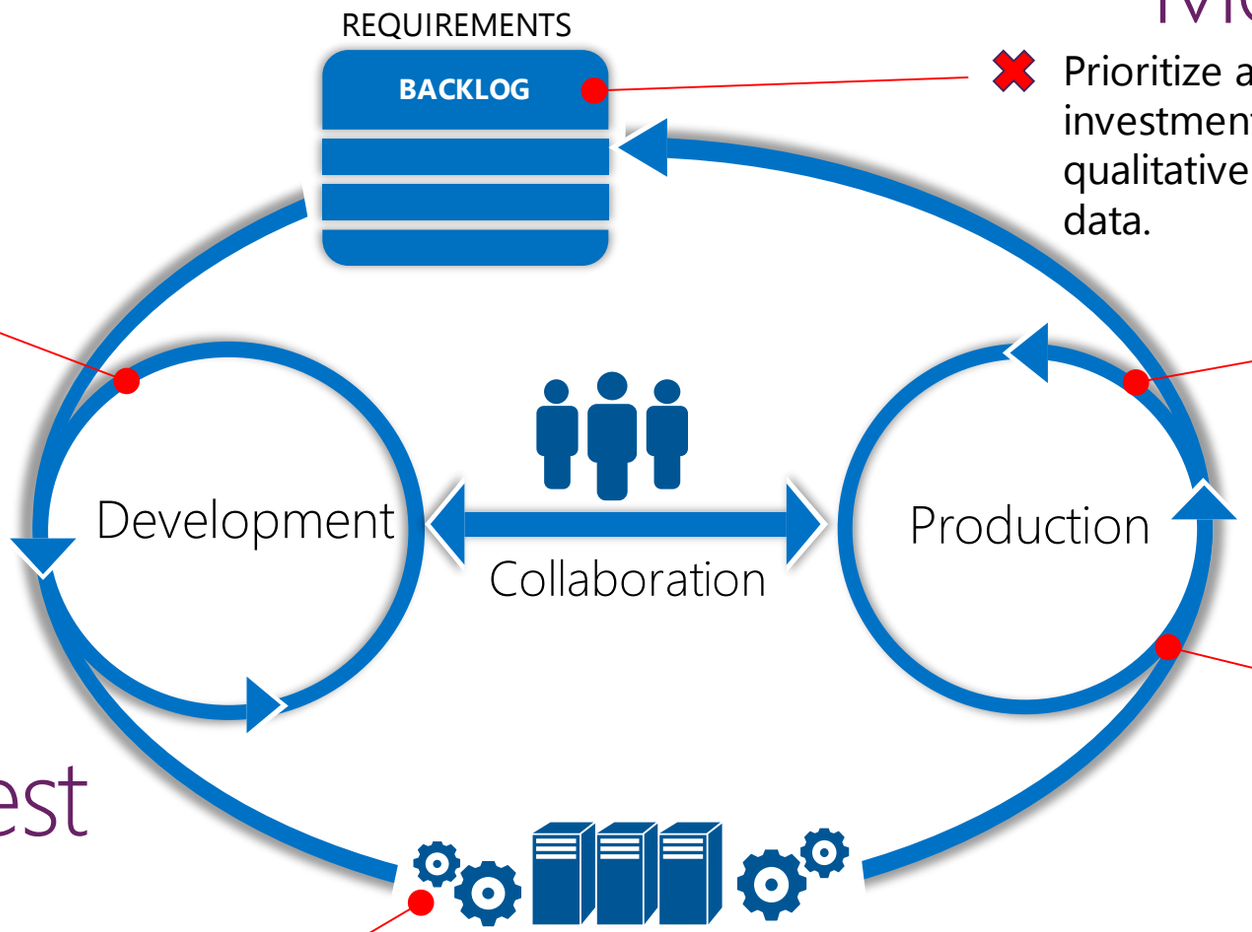
ALM Framework

Plan

- No actionable and contextual info to resolve incidents

Monitor + Learn

- Prioritize and validate investments based on qualitative and quantitative data.
- Inconsistent tracking and management of incidents across teams and tools
- Quickly detect and resolve application issues.



Develop + Test

- Inconsistent and chaotic releases

Release

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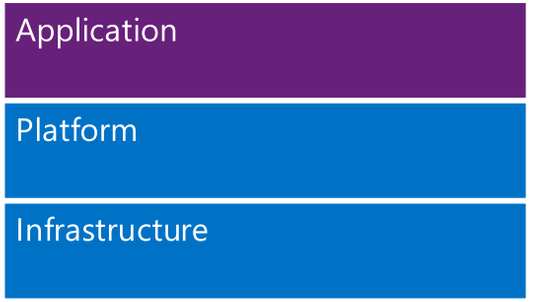
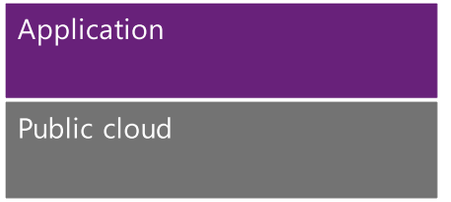
Introduce AI & SC tools



Private

Application Insights
System Center 2012 R2



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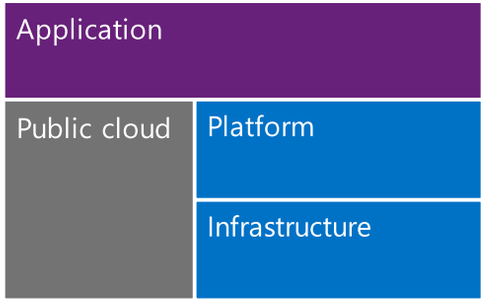
Application Insights



Hybrid

Application Insights
System Center 2012 R2

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01 | Summary

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