

Continuous DevOps monitoring and learning

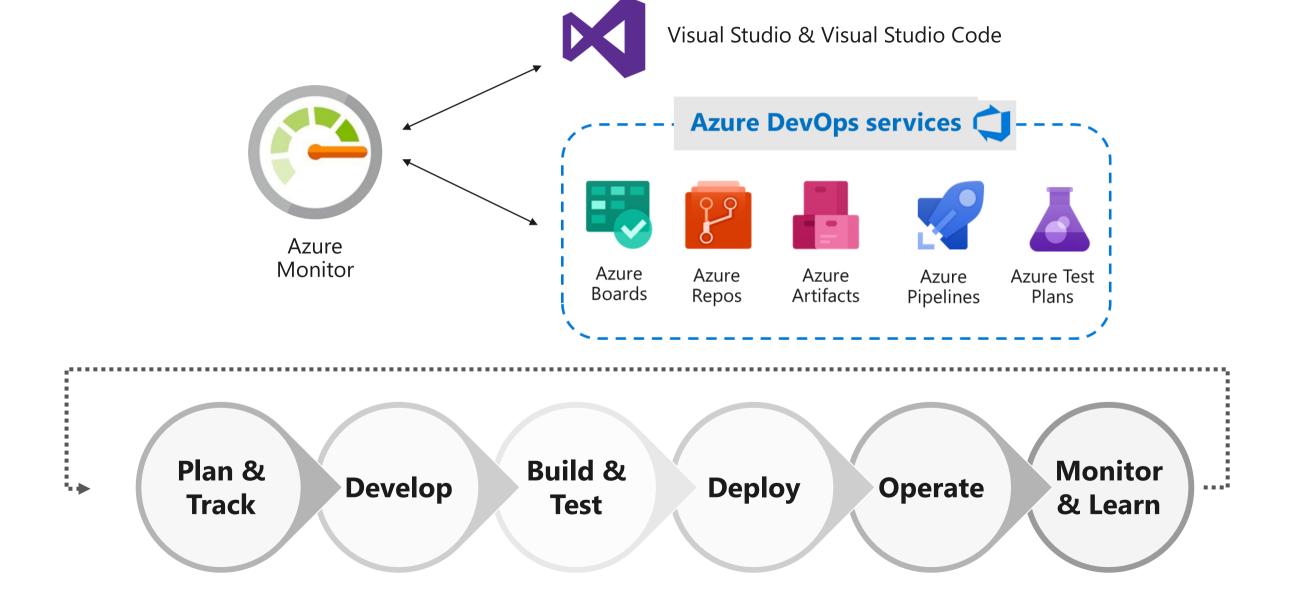


Learn.

Connect.

Explore.

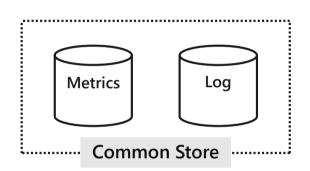
Continuous Monitoring (CM) for DevOps



Azure Monitor

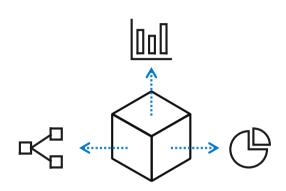
Full observability for your apps, infrastructure and network





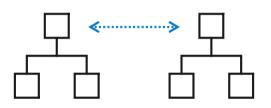
Unified Monitoring

A common platform for all metrics, logs and other monitoring telemetry



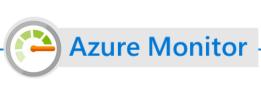
Data Driven Insights

Advanced diagnostics and analytics powered by machine learning capabilities



Workflow Integrations

Rich ecosystem of popular DevOps, issue management, SIEM, and ITSM tools



Application

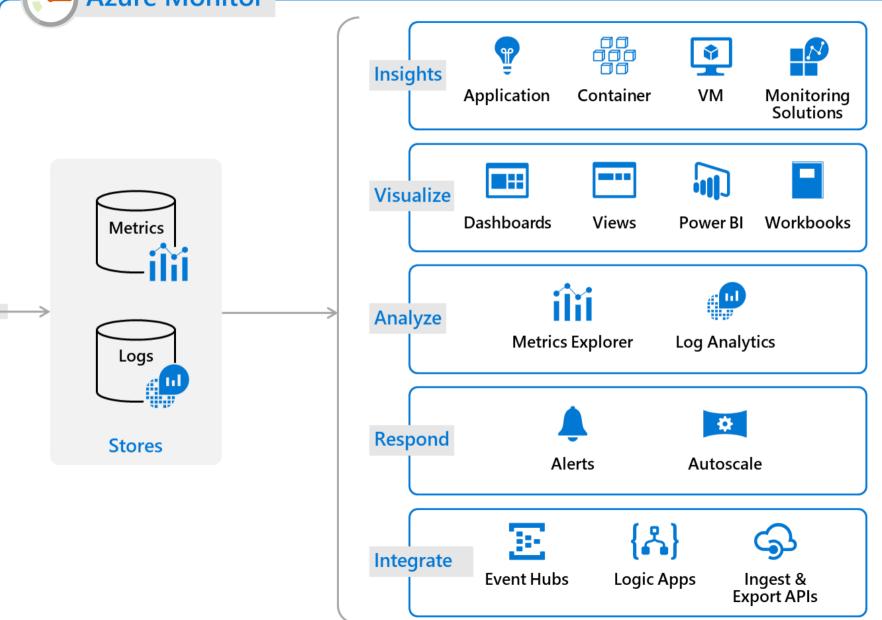
Operating System

Azure Resources

Azure Subscription

Azure Tenant

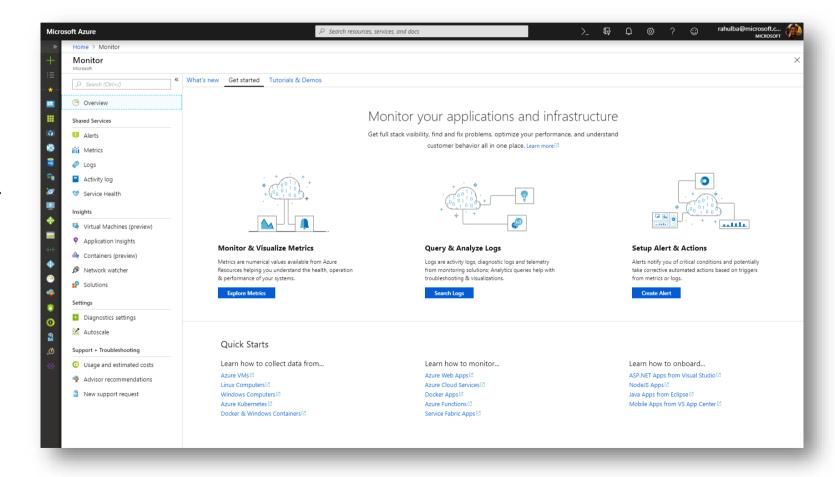
Custom Sources



Unified Monitoring



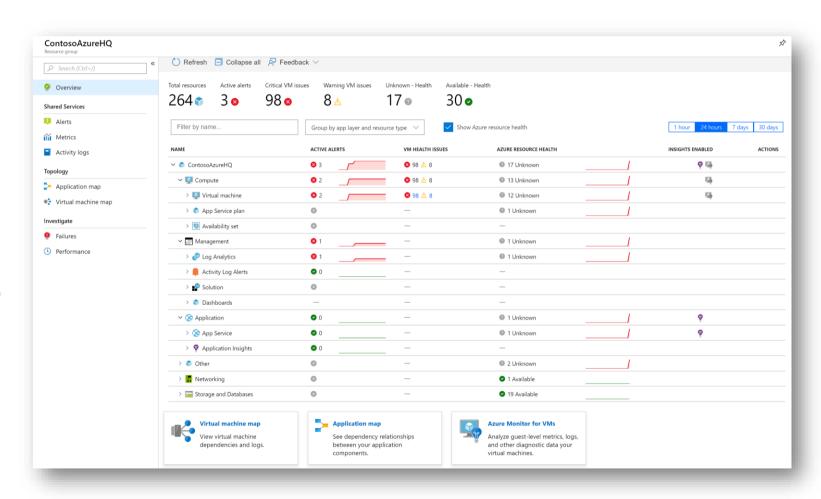
- One Metrics, One Logs, One Alerts across Azure/on-prem resources
- Unified offering with App Insights & Log Analytics as integrated features
- Integration into native Azure resource blades
- → Ability to send custom metrics & custom logs



Full Stack Visibility in Resource Groups



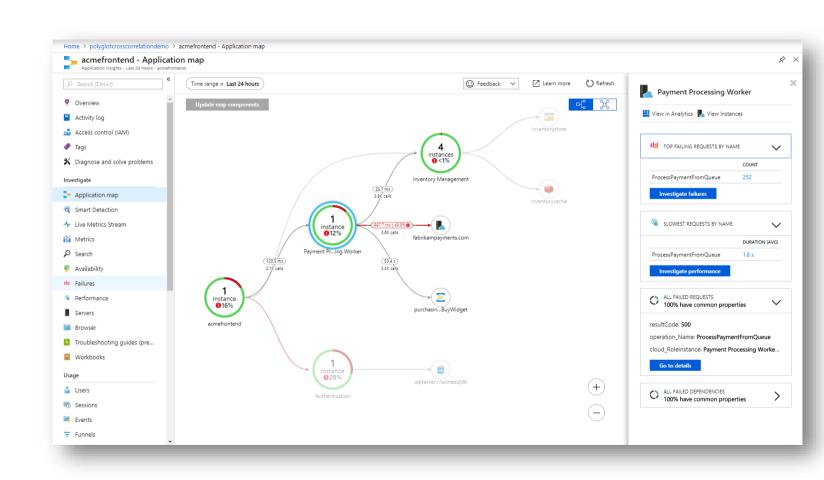
- Monitor health state of all resources
- \Longrightarrow See alerts firing across app & infra
-) Jump to Application Map or VM Map
- Drill down into failures or perfissues



Diagnose E2E issues with Application Insights



- → Monitor apps in .NET, JS, Java, Node.js or any language with OSS SDKs NEW!
- Visualize server/client connections& dependencies with App Map
- Track E2E distributed transactions (including for Python & Go) NEW!
- Drill down to code-level with Snapshot Debugging & Profiling
- Understand end-user cohorts, behavior & engagement for planning



Integration with Monitoring & SIEM Tools



- Azure Monitor is best for Azure, and provides both APM & SIEM capabilities
- Open and extensible to continue using your favorite tools & solutions
- Integrate your existing APM/Monitoring solutions with Azure Monitor
- Route telemetry to your SIEM solutions for analytics & security management













































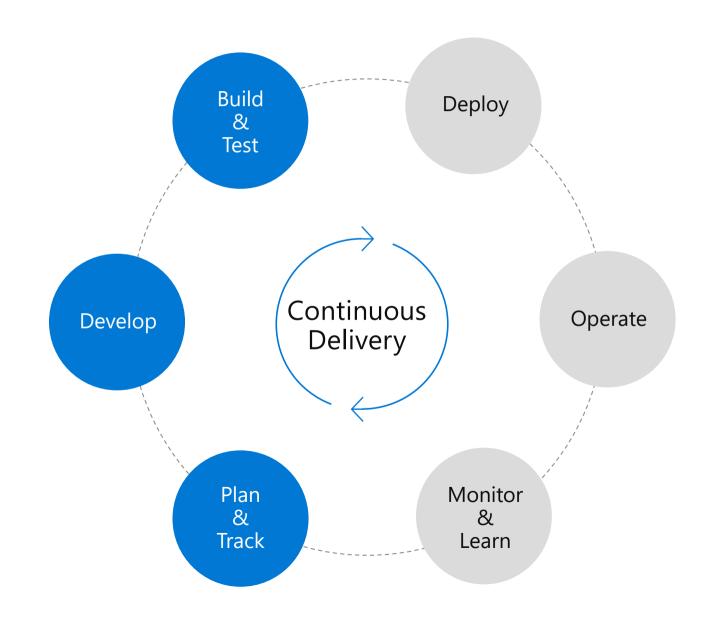




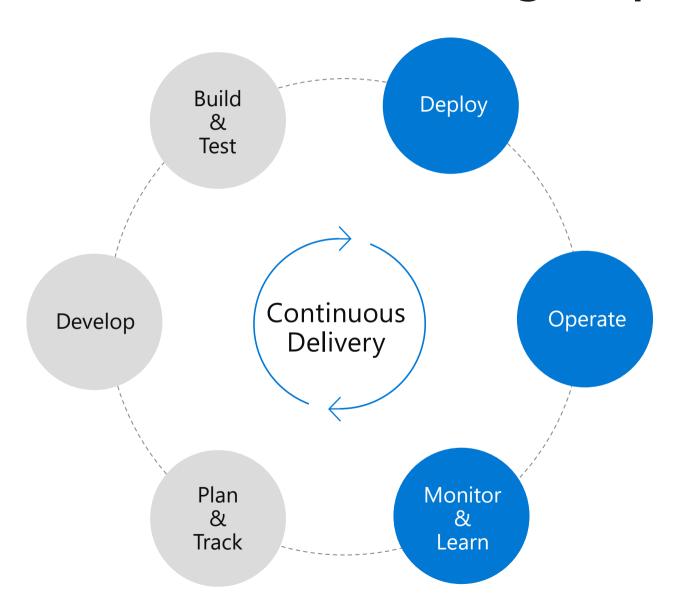


Continuous Monitoring – Development Phase

- Onboard through OSS SDKs, Packages or APIs
 Any App | Any Dev | Any Platform
- Native IDE integrations in VS (.NET) and VS Code (Node.js)
- Track production telemetry in VS through CodeLens integration
- → Local debug session Diagnostics & Performance Monitoring in VS
- Run Load Tests from Azure Test Plans & VS
 Multi-Step Web Tests for Synthetic
 Monitoring
- File & track bugs/work items in Azure Boards from Azure Monitor



Continuous Monitoring – Operations Phase



- Onboard through Azure Pipelines Release
 Management or DevOps Projects
- Setup Pre- or Post-Deployment Quality
 Gates with Azure Monitor Metrics/Alerts
- Monitor & Manage Health, Availability, Reliability & Performance of App & Infra
- Run code-level analyses in production with Snapshot Debugging & Profiling
- Setup Alerts & Notifications with automated actions & remediations
- Ontinuously optimize Perf & Usage metrics with "Build Measure Learn"

Demo Continuous Monitoring

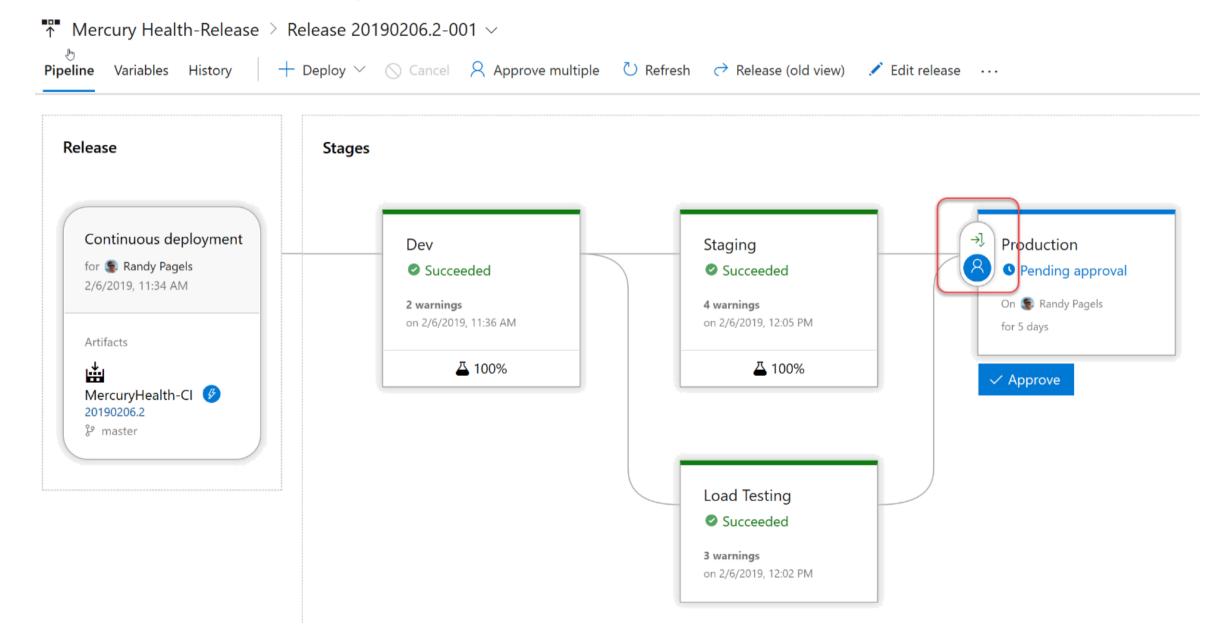
Visual Studio Azure DevOps Azure Monitor



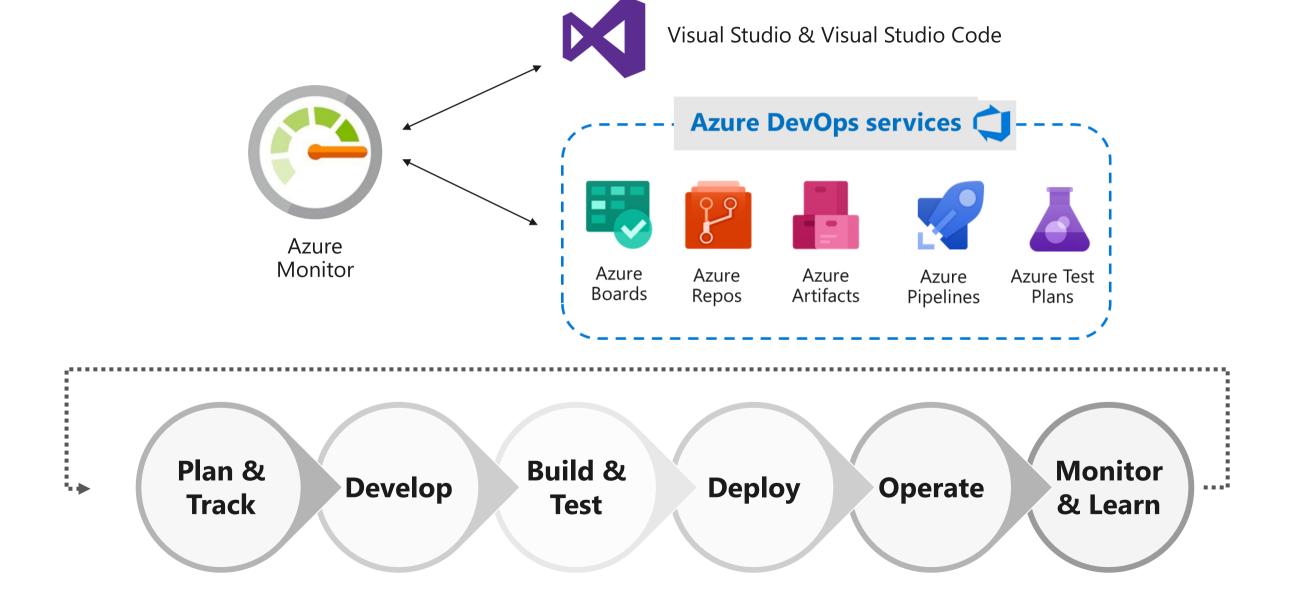
Application Insights – User Flows



Application Insights – Quality Gates



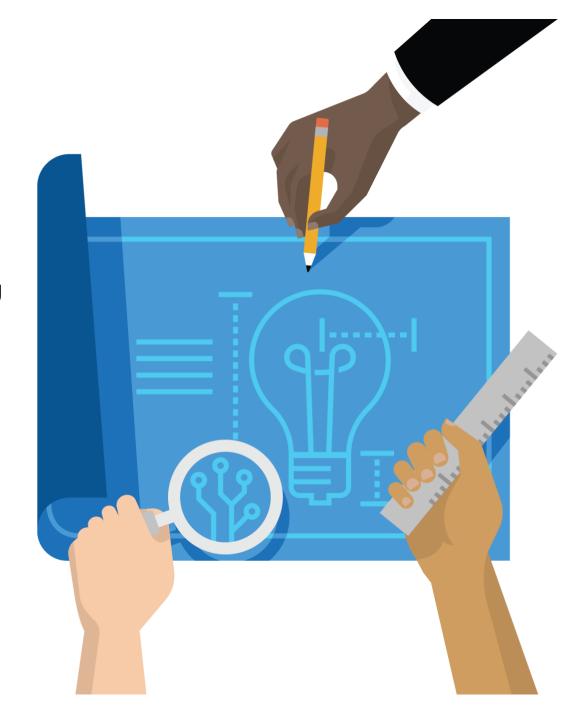
Continuous Monitoring (CM) for DevOps



Better practices

- Ensure apps have monitoring enabled via SDKs, Azure Pipelines, DevOps Projects, or VM Extensions
- Ensure your infrastructure (VMs, Containers, Network) also has monitoring enabled with metrics & diagnostics logs
- Augment your release pipelines with continuous monitoring
- Bucket Azure resources in Resource Groups for full visibility
- Setup actionable alerts with notifications and/or remediations
- Shares dashboards & workbooks with RBAC
- Use 'Infrastructure as Code' to monitor/configure at scale
- Continuously optimize with 'Build Measure Learn'

Learn More: http://aka.ms/AzMonOverview



Resources

The MTC Transformation Academy – https://aka.ms/mtcacademy

Download Visual Studio 2019 Preview

https://visualstudio.microsoft.com/vs/preview/

Learn more about Visual Studio – https://visualstudio.microsoft.com/

Learn more about Azure Monitor – https://aka.ms/AzureMonitor

Learn more about Azure DevOps – https://azure.com/DevOps

Monitoring Documentation – https://aka.ms/MonitoringDocs

Thank you!