

8:30 – Hello Visual Studio

9:45 – Exploring Mobile Stack

11:00 – DevOps

12:00 – Pizza & HoloLens

WIFI msevent00ib

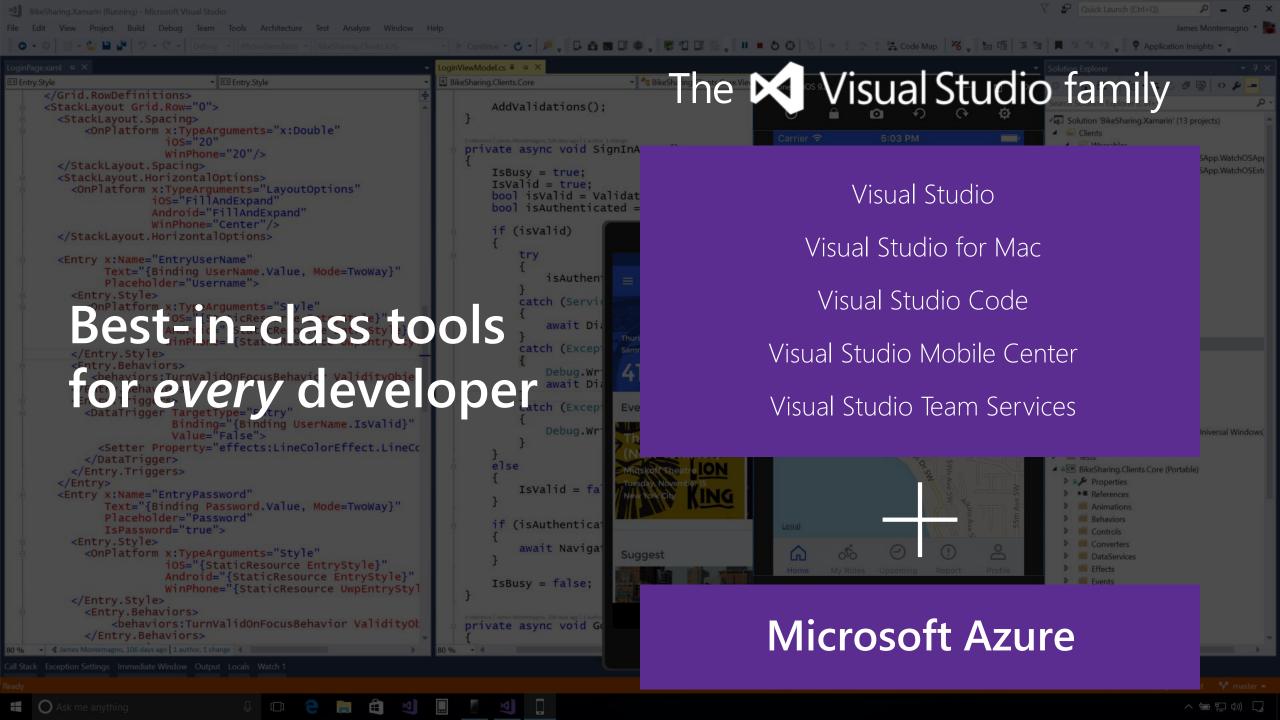
Best of Launch Visual Studio 2017

Mike Benkovich Mitch Muenster Lance Larsen

WIFI msevent00ib

Today...

- Hello Visual Studio 2017!
- Building with the Microsoft Mobile Stack
- DevOps, .NET Core, Azure and More



Visual Studio 2017



Announcing Visual Studio 2017 **General Availability** Download now at www.visualstudio.com Free 60-day Xamarin University

Announcing New value for Visual Studio Enterprise subscribers

Pluralsight: 1 year full catalog

Office 365 Dev: 25 seats

Parasoft: 6 months

WhiteSource: 6 months

Visual Studio 2017: Fundamentals The developer inner loop

Mike Benkovich

Visual Studio 2017: Fundamentals

FOUNDATIONSTREAMLINED

PRODUCTIVITY BOOSTED







Trends

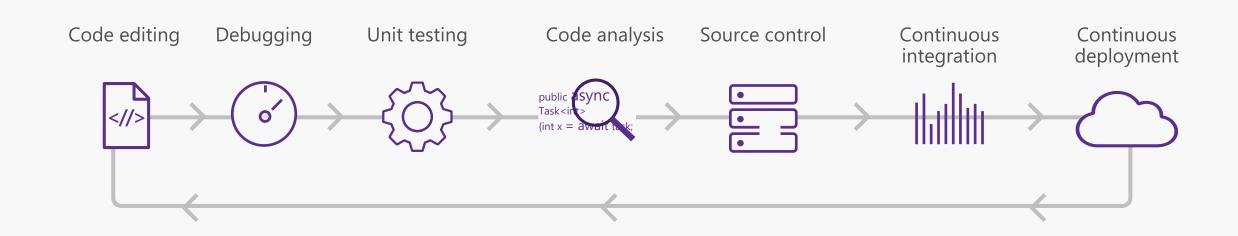
Software development is a team sport

Agile & DevOps change the flow

Individual productivity still matters



A traditional look at DevOps



Development flows left to right and repeats

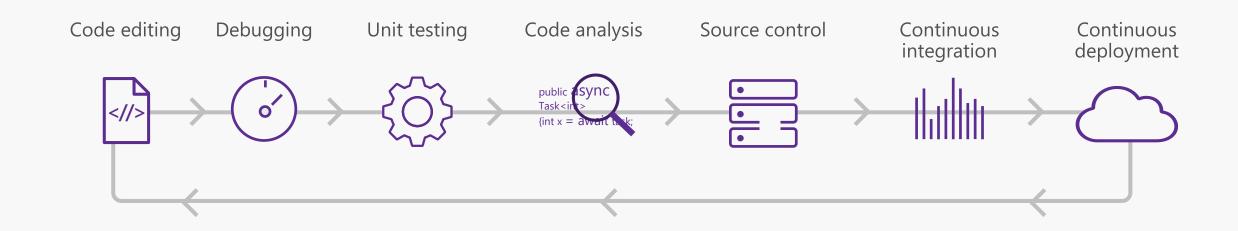
We can do better

Tighten the cycle

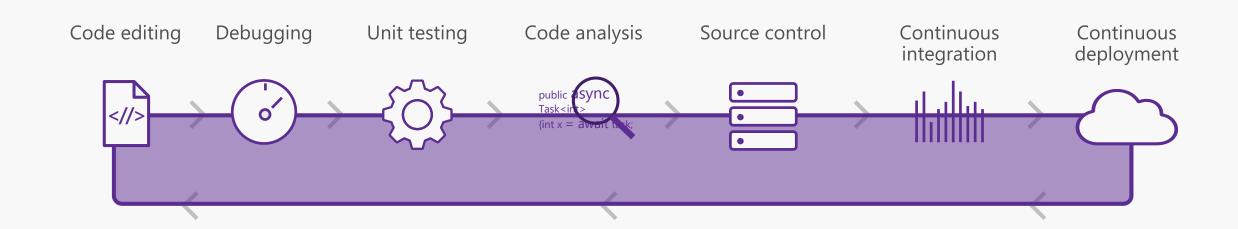
Catch issues before check-in

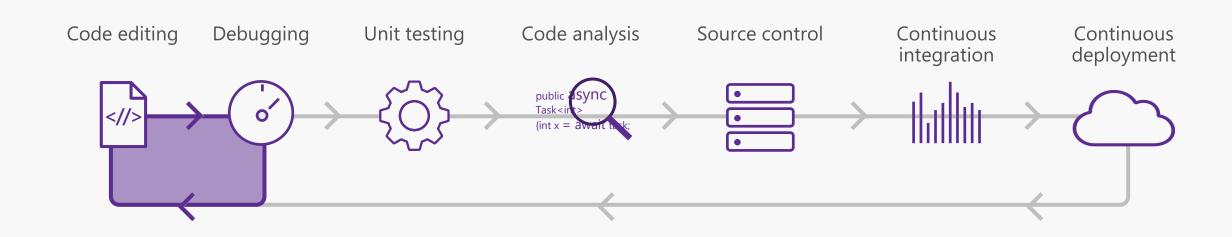
Identify issues in production



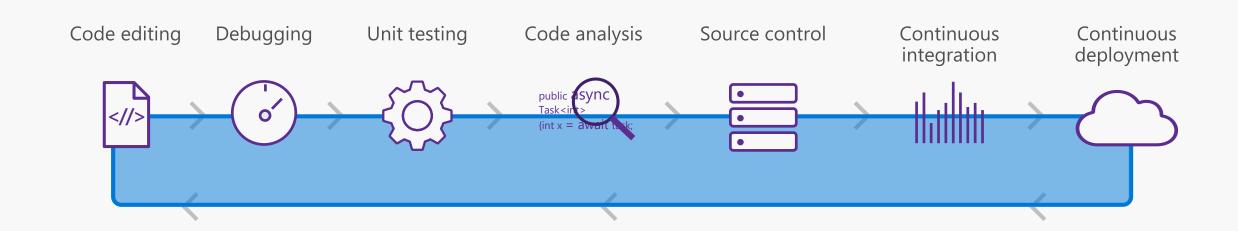


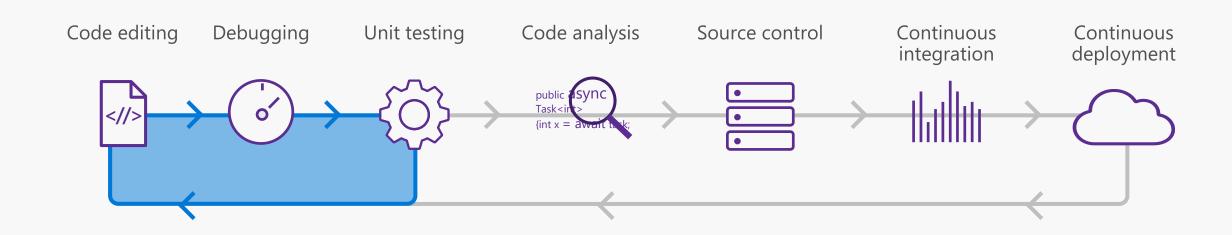
Continuous integration + real-time experiences = shift left



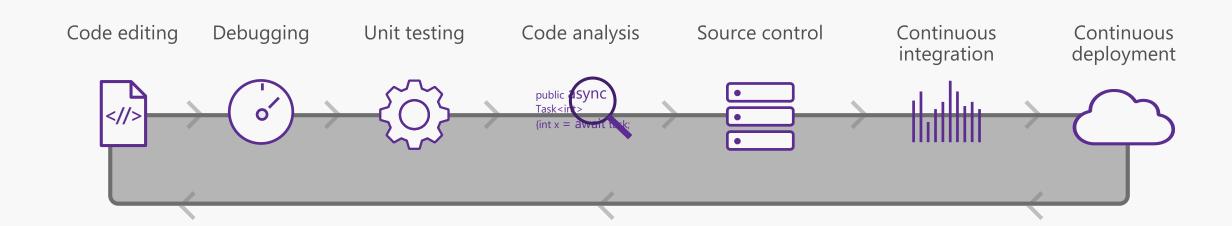


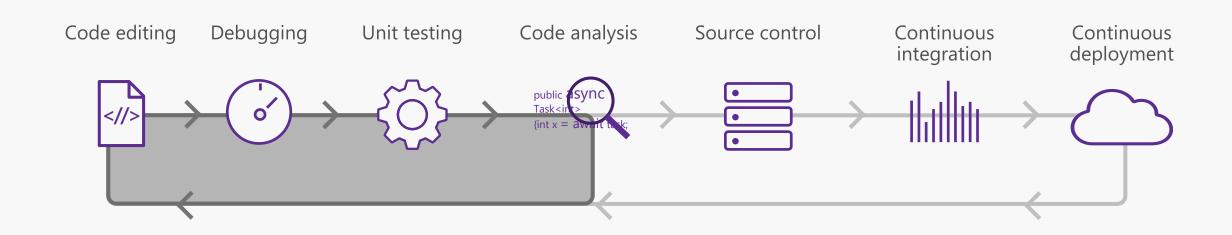
Edit and continue – pulled debugging into the edit/build cycle





Live unit testing – pulls quality further into the inner loop





Live code analysis – immediate feedback loop





Visual Studio 2017: Cloud

.NET CORE
CLOUD NATIVE

CONTAINERSMADE EASY



Microsoft Azure

Platform Services

Web + Mobile Identity Management

Internet of Things Media Streaming

Microservices High Performance Compute

Data + Analytics Cognitive Services

Core Infrastructure

Compute Storage Networking Security

Hybrid

Choice + OSS + Flexibility with Azure

DEVOPS











DATABASES & MIDDLEWARE











APPLICATIONS











INFRASTRUCTURE









APP FRAMEWORKS









.NET – A unified platform

.NET FRAMEWORK .NET CORE **XAMARIN WINDOWS CROSS-PLATFORM MOBILE APPLICATIONS SERVICES APPLICATIONS** .NET STANDARD LIBRARY **COMMON INFRASTRUCTURE** Compilers Languages **Runtime components**



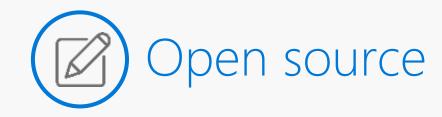
.NET Core is optimized for "cloud-native" apps



Cross-platform







Cloud development optimized

Visual Studio

+

.NET

+

Azure







Announcing
.NET Core Tooling
1.0

Visual Studio 2017 .NET Core CLI

www.dot.net/core



Why microservices?

Traditional approach

API UI

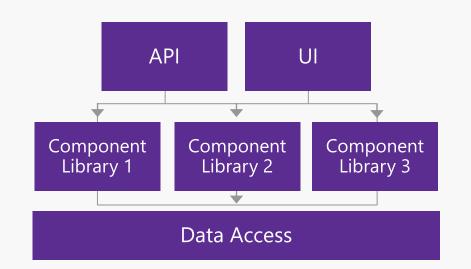
Component
Library 1 Component
Library 2 Component
Library 3

Microservices approach



Why microservices

Traditional approach

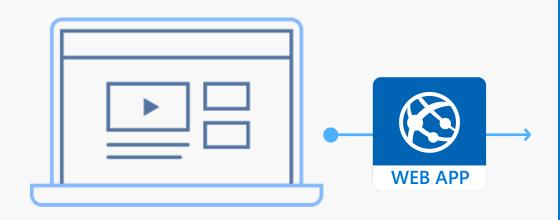


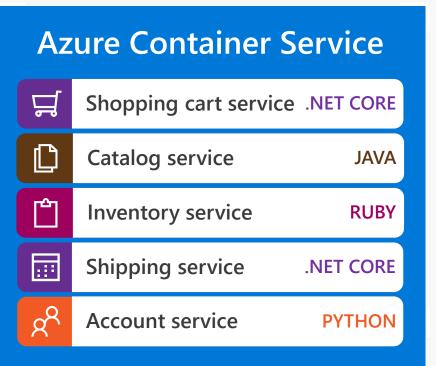


Microservices approach

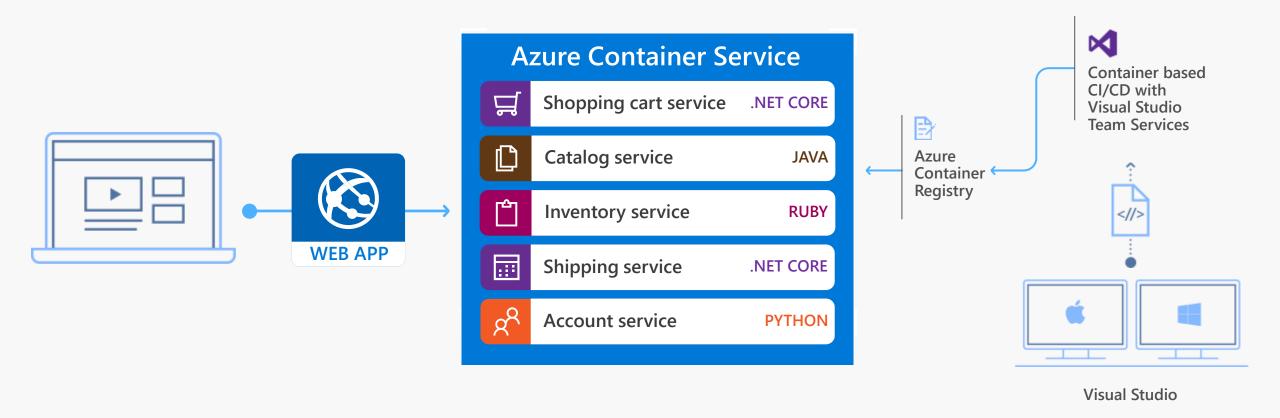


Microservices + Containers





Continuous Integration with Containers







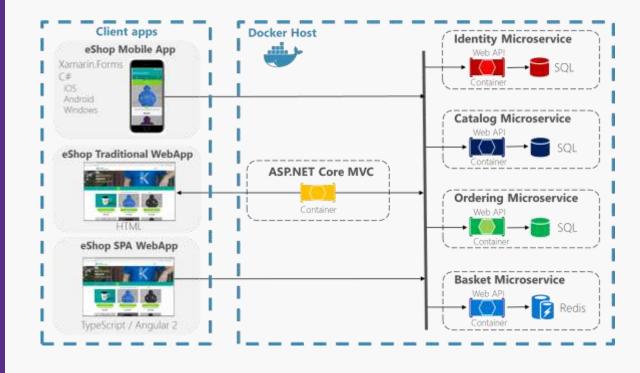
Announcing .NET Core microservices reference application

Explore our beta release and provide feedback: http://aka.ms/MicroservicesArchitecture

.NET Core microservices reference app

- Includes backend services architected with best practices
- Mobile and web client apps included
- Supported in Visual Studio 2017
- Supported on Docker and dotnet
 CLI on Mac, Linux or Windows





Explore our beta release and provide feedback:

http://aka.ms/MicroservicesArchitecture

Visual Studio Dev Essentials 1.4M members and counting

✓ Visual Studio My Benefits Ed Blankenship Sign out D

Subscriptions Support ∨ Marketplace Renew or Upgrade Benefits Downloads Product Keys

Showing: Visual Studio Dev Essentials ~

Welcome to your Visual Studio Dev Essentials



Featured (6)



Visual Studio Communic Full-featured extensible IOF

Free for individuals, open source or small teams. Create apps for Windows, (DS,...





Visual Studio Code Modern lightweight editor

A powerful, streemlined code editor for your favorite. platform - Linux, Mac OS X, an.





Visual Studio for Mac

Build apps for the cloud, iOS; Android, macDS, and wearables



Visual Studio Team Servi Basic level

Free Git repos. Agilir planning tools and hosted builds, for any language - it's the perfect...



\$25 monthly credit for 1 year

Your own personal sandbox for dev/test! VMs. cloud services. and more. Credit carnot be...



Xamarin University Train Free on-demand access

Build native iOS and Android

apps in C# with expert gettingstarted videos (subset of class...



Tools (11)



Microsoft R Server Developer Edition

Build Advanced Analytics solutions in R on Windows. Hadoop, Terradata and Linux.

Download



Microsoft SQL Server Developer Edition

Build mission-critical data solutions with unparalleled security, mobile 8t. and....

Download



Azure App Service

Free plan

Everything you need to quickly and easily build web and mobile apps for any platform.

Use it free



Application Insights free plan.

Gain deep insight into the health and performance of your web app no matter wher.

Use it free



Syncfusion. Free for 1 year

Get Code



Get Xamarin Studio and UWP Studier 50+ controls - charts. grids, maps & more. Make yo.



HockeyApp free plan

Beta test mobile apps, track crashes, gather feedback and drive improvements with one...

Use it free



Education (6)



Linux Academy Free 3-month subscription

Unlimited access to advanced online training and certification

0

Get Code

courses.



Pluralsight 3-month subscription

World-class training taught by an wite group of industry. leaders.

Get Code



WintellectNOW

5-month subscription

On-demand training from the company that has trained thousands of Microsoft...

Get Code

(D)



Microsoft Virtual Acade

Free online training

Learn the latest technology. build your skills, and advance your career.

Take training

(D)



MSDN Magazine Digital edition

Comprehensive coverage of Microsoft technologies for practical solutions to real-work.



MSDN Flash newsletter

Bi-weekly email

Critical developer news in one information-dame, compact newsletter.

Subscribe

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Support (2)





Announcing New value for Visual Studio Dev Essentials members

Opsgility: 3 months of Azure and DevOps training Aka.ms/devessentials

Visual Studio 2017: Mobile

Mitch Muenster





Xamarin included in Visual Studio

Xamarin.Forms Native Embedding

Inspector

Open Source Xamarin. Android

Open Source Xamarin.Forms

Android Nougat

Xamarin.Forms URL Navigation



Embedded Native Controls

iOS 10 .NET Standard

MIT License Mono

Remote iOS Simulator on Windows

Open Source Xamarin.Mac

Workbooks

BitCode support Vull

Vulkan API

Open Source Xamarin.iOS

Multi-process debugging on Mac

WatchOS 3

Hybrid AOT

TLS 1.2

Skia 2D Graphics

Xamarin.Forms Tizen

Announcing Visual Studio for Mac Preview 4

A mobile-first, cloud-first IDE. Made for the Mac.

Native mobile and Mac apps in C#

Build from the client to the cloud

Visual Studio 2017: Mobile

5-STAR APPSMADE EASY

MOBILE DEVOPS
AUTOMATED



- Native user interface
- High-fidelity API access
- Native performance



Xamarin: Anything you can do in Objective-C, Swift or Java, you can do in C# and Visual Studio

BRITISH AIRWAYS

Visual Studio Tools for Xamarin

Write code faster, with higher quality



Inspector



Profiler



Forms previewer



iOS simulator



Connected services



New templates



Workbooks



Test recorder





















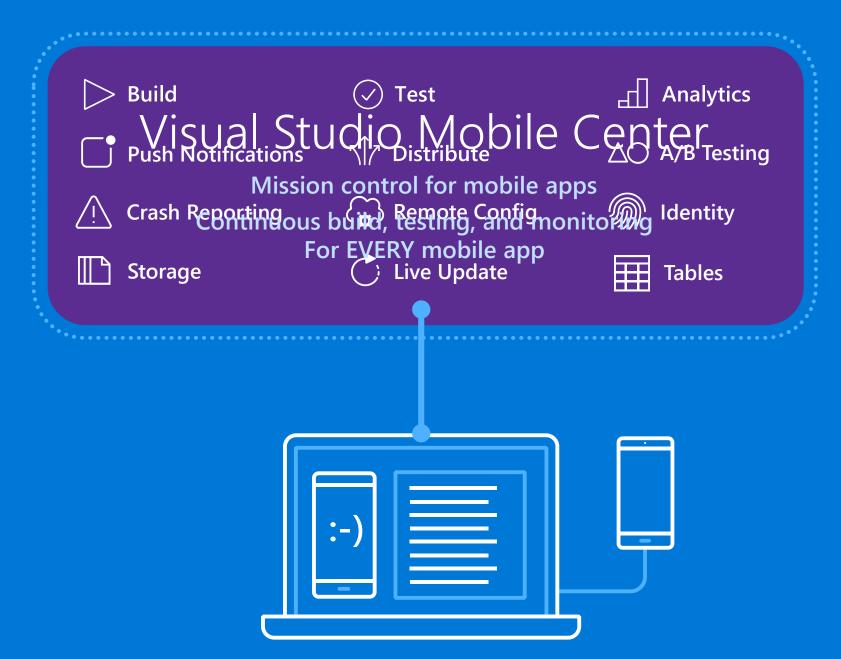
















Announcing Visual Studio Mobile Center Preview

Lets developers build apps, not ops

Easy to adopt

Ready for the enterprise

aka.ms/mobilecenter

BREAK

Some links from this morning

- http://visualstudioshortcuts.com/2017/
- http://www.dofactory.com/reference/visual-studio-shortcuts

Enterprise DevOps

Mike Benkovich

Evolving DevOps Trends we see

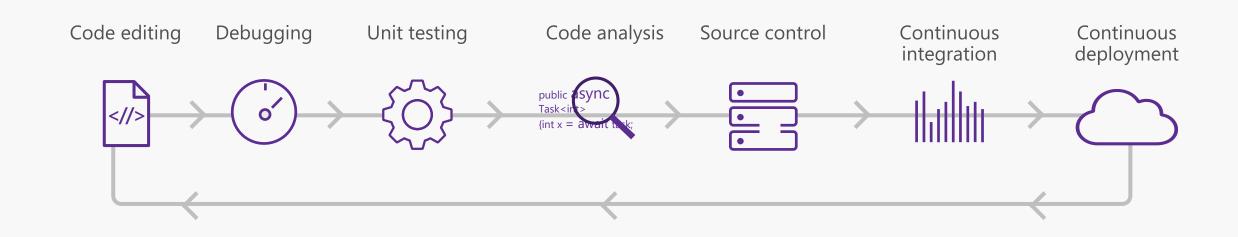
Visual Studio 2017: DevOps

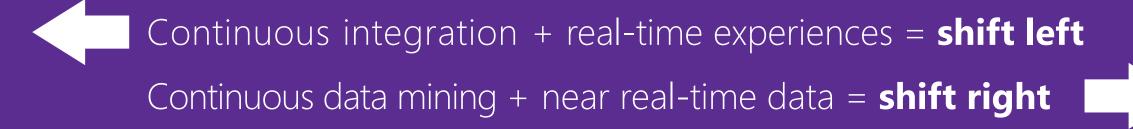
CONTINUOUS DELIVERY
SIMPLIFIED

TRUSTED & SCALABLE ENTERPRISE-GRADE

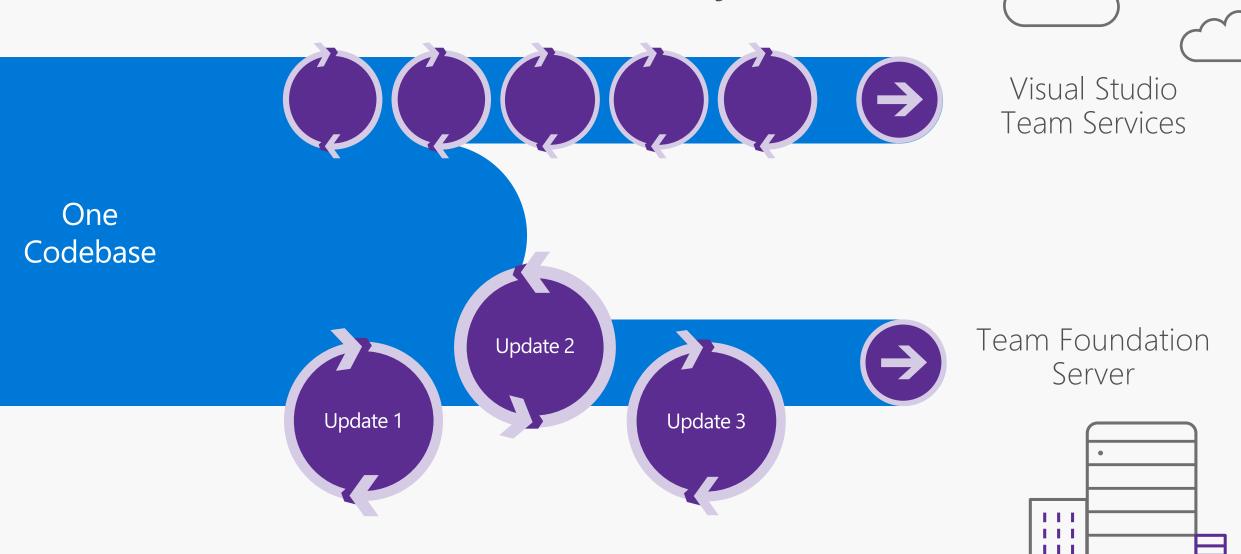


"Shift left" and "shift right"





One codebase, two delivery streams





Repo Admin Permission Changes

Admin Work Hub

Build/Release Task Versioning

Commit Traceability

Personalized Home Page

Cherry Picking

Test Impact Analysis

Release Management Improvements

New Process Template Editor

Agile Improvements

Follow Pull Request

Team Foundation Server 2017 Update 1 Available

Social Pull Request Experience

View PRs for a Commit

Docker Integration

Code Search

Azure Integration

Markdown and Emoji in Comments

PR Merge Conflict Information

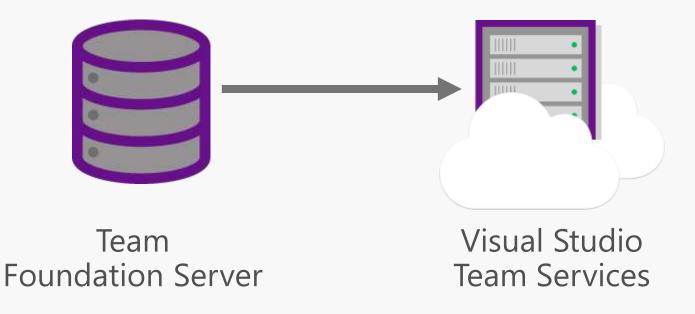
Follow Work Items

npm Support

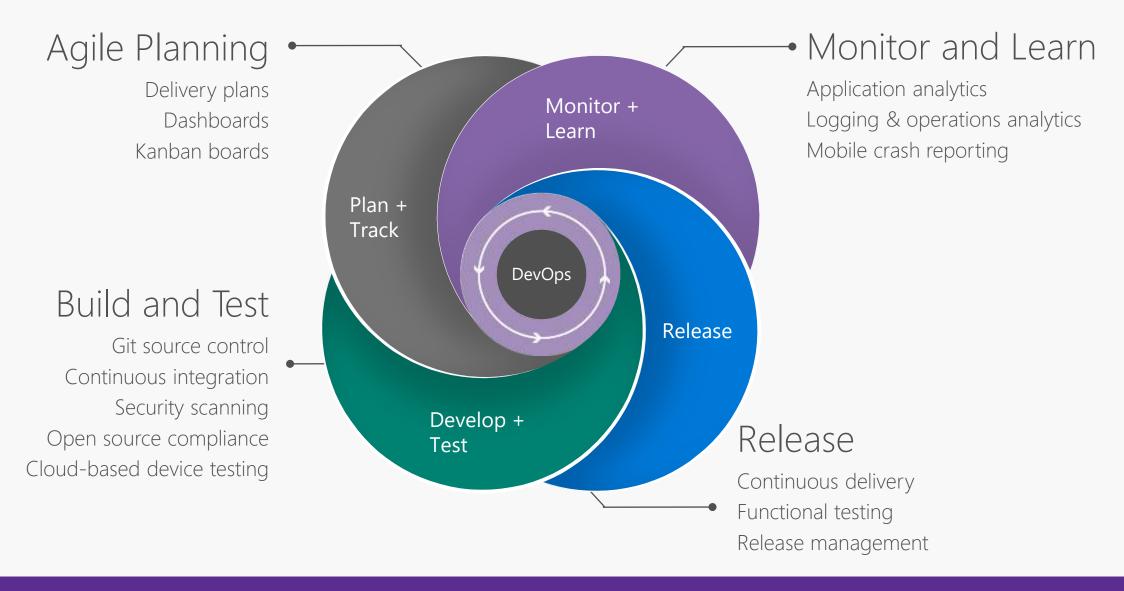
Azure SQL Database Deployment Task

Your on-ramp to the cloud





https://aka.ms/tfsimportdata

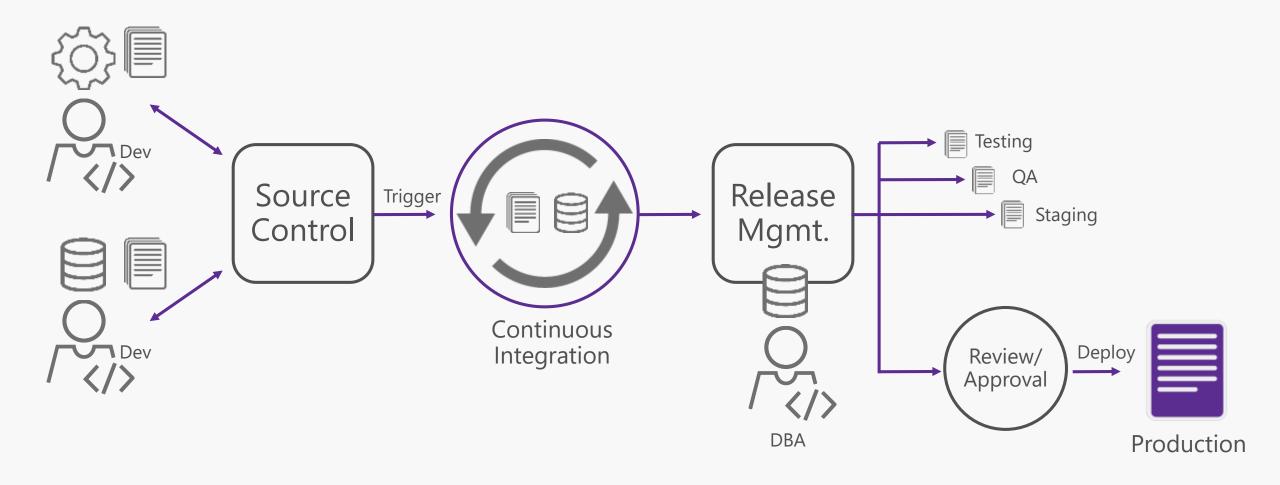


Microsoft DevOps Solution





DevOps for databases: automated deployment





Announcing Redgate Data Tools

Included with Visual Studio Enterprise

Database DevOps

Increased productivity

Visual Studio Enterprise



(***) 5-Star mobile app development



(A) Manage complexity and shift left



Put quality at the center



Free training and Azure credits

Check out TechNet Labs

Main Link: https://almvm.azurewebsites.net/

2017 Labs Now Available on TechNet Virtual Labs

Announcing New value for Visual Studio Enterprise subscribers

Pluralsight: 1 year full catalog

Office 365 Dev: 25 seats

Parasoft: 6 months

WhiteSource: 6 months

Announcing Enterprise DevOps Accelerator

Our best tools including Visual Studio Enterprise

CI/CD and testing service

Discounted Azure pricing for dev/test

On-site expert DevOps coaching

aka.ms/devopsnow

Visual Studio 2017



THANK YOU!

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Full day of free training tomorrow

www.visualstudio.com













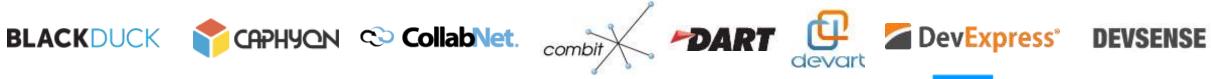
































IntervalZero

Visual Studio 2017 launch partners

116 +500 launch partners extensions



















































