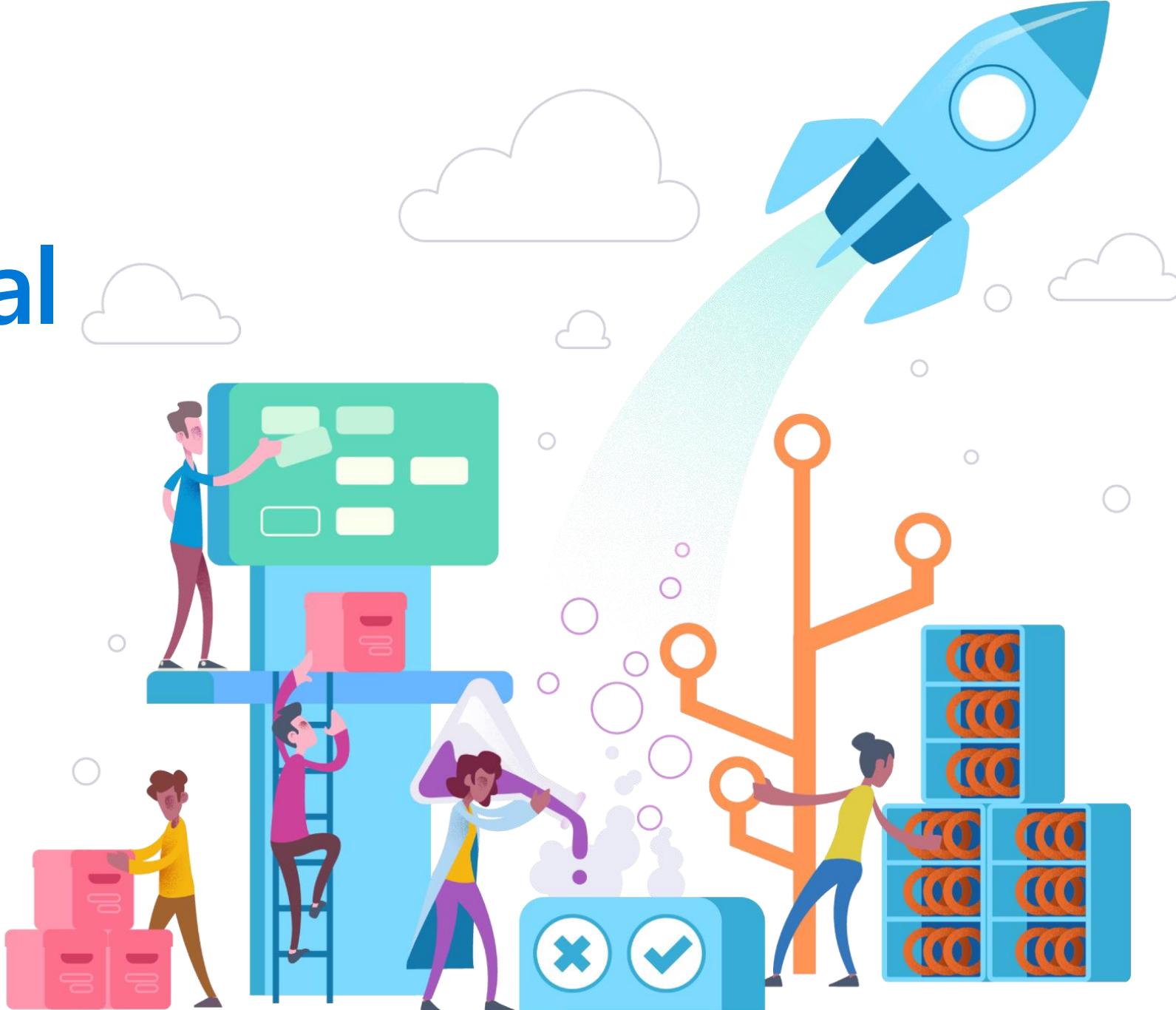


Business Central & DevOps

05/04/2019
Microsoft House

Gianluca Bertelli
Technical Evangelist, Microsoft

Marcello Marchetti
Sr. Technical Evangelist, Microsoft



Business Central & DevOps

Agenda

- Introduzione a Git
- Introduzione a Azure DevOps
- ***Coffee break***
- Approfondimento sui pacchetti di Azure DevOps
- Visual Studio Code + Azure DevOps
- ***Lunch***
- Power Platform
- Business Central + DevOps
- ***Q&A***



Git Overview

- 1. What is version control?**
- 2. What is git?**
- 3. How does git work?**
- 4. Install Git**
- 5. Remote Repository Services**
- 6. Quick example using Git**

What is Version Control?

- A system that keeps records of your changes
- Allows for collaborative development
- Allows you to know who made what changes and when
- Users keep entire code and history on their machines
- Users can make any changes without internet access
- Allows you to revert any changes and go back to a previous state

What is Git?

- Started in 2005
- Created by Linus Torvald to aid in Linux kernel development



How does Git work?

Key Concepts: Snapshots

- The way git keeps track of your code history
- Essentially records what all your files look like at a given point in time
- You decide when to take a snapshot, and of what files
- Have the ability to go back to visit any snapshot
- Your snapshots from later on will stay around, too

How does Git work?

Key Concepts: Commit

- The act of creating a snapshot
- Can be a noun or verb
 - “I committed code”
 - “I just made a new commit”
- Essentially, a project is made up of a bunch of commits

How does Git work?

Key Concepts: Commit

- Commits contain three pieces of information:
 1. Information about how the files changed from previously
 2. A reference to the commit that came before it called the “parent commit”
 3. A hash code name
(Will look something like: fb2d2ec5069fc6776c80b3ad6b7cbde3cade4e)

How does Git work?

Key Concepts: Repositories

- Often shortened to 'repo'
- A collection of all the files and the history of those files
- Consists of all your commits
- Place where all your hard work is stored
- Can live on a local machine or on a remote server (es. [GitHub](#) or [Azure DevOps](#))

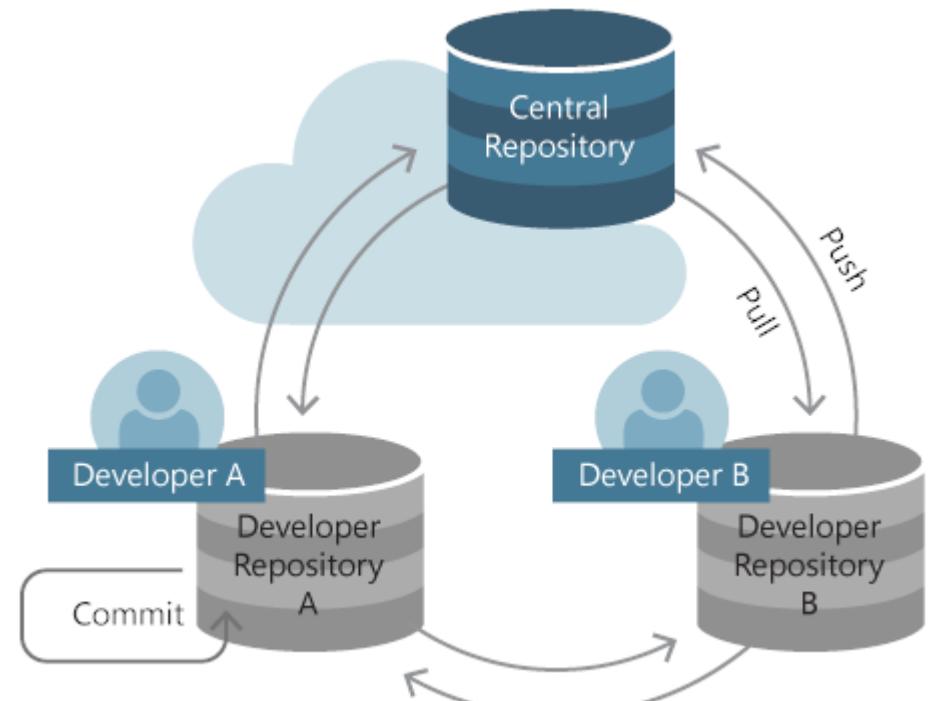
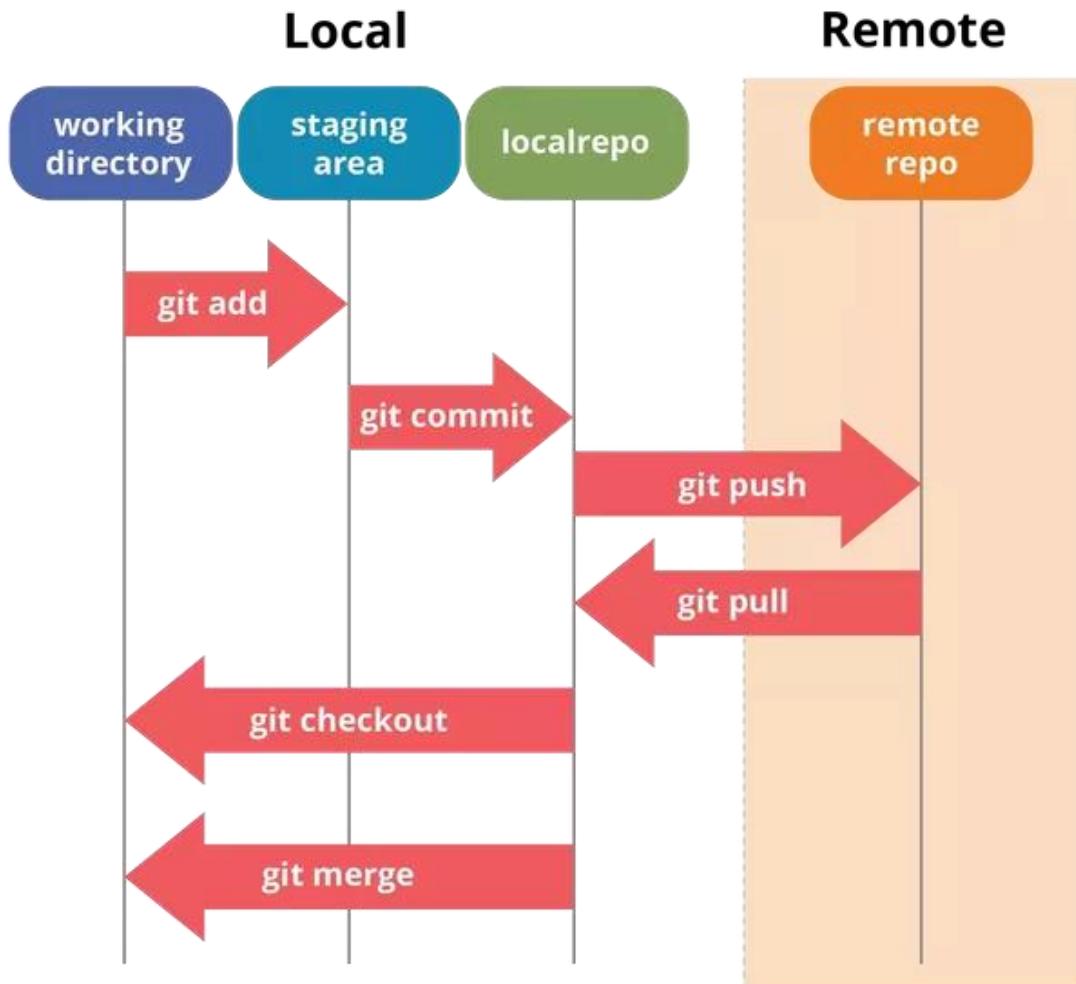
How does Git work?

Key Concepts: Repositories

- The act of copying a repository from a remote server is called cloning
- Cloning from a remote server allows teams to work together
- The process of downloading commits that don't exist on your machine from a remote repository is called pulling changes
- The process of adding your local changes to the remote repository is called pushing changes

How does Git work?

Key Concepts: Repositories



How does Git work?

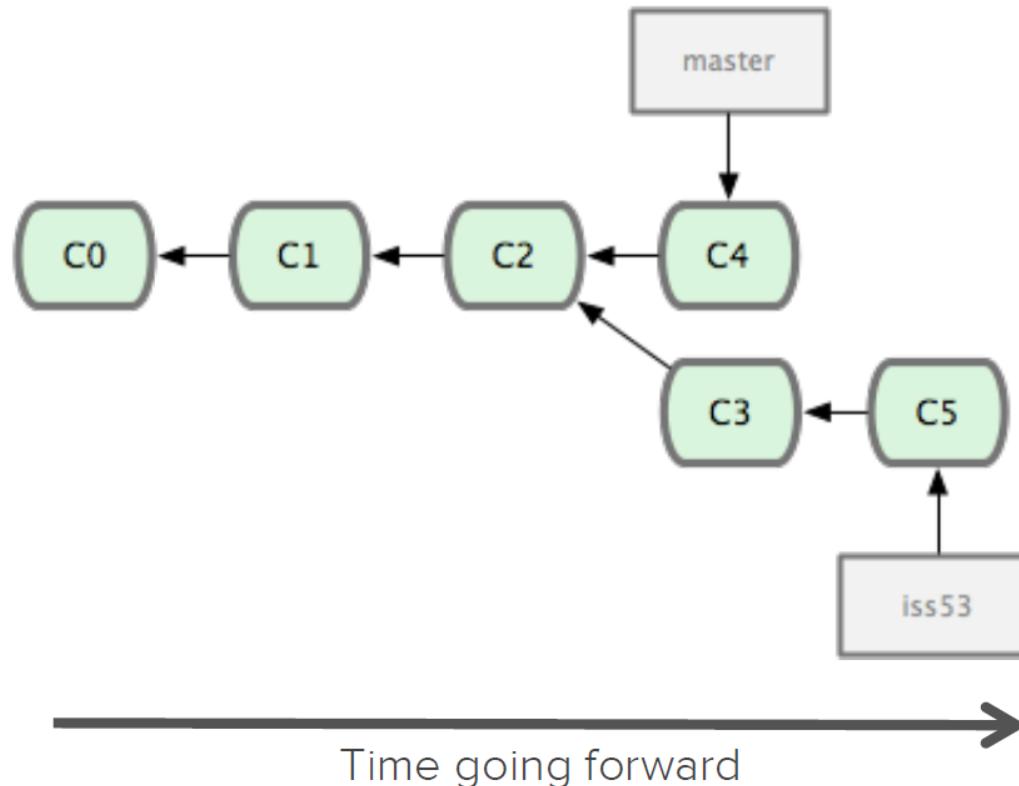
Key Concepts: Branches

- All commits in git live on some branch
- But there can be many, many branches
- The main branch in a project is called the master branch

How does Git work?

Key Concepts: Branching off of the master branch

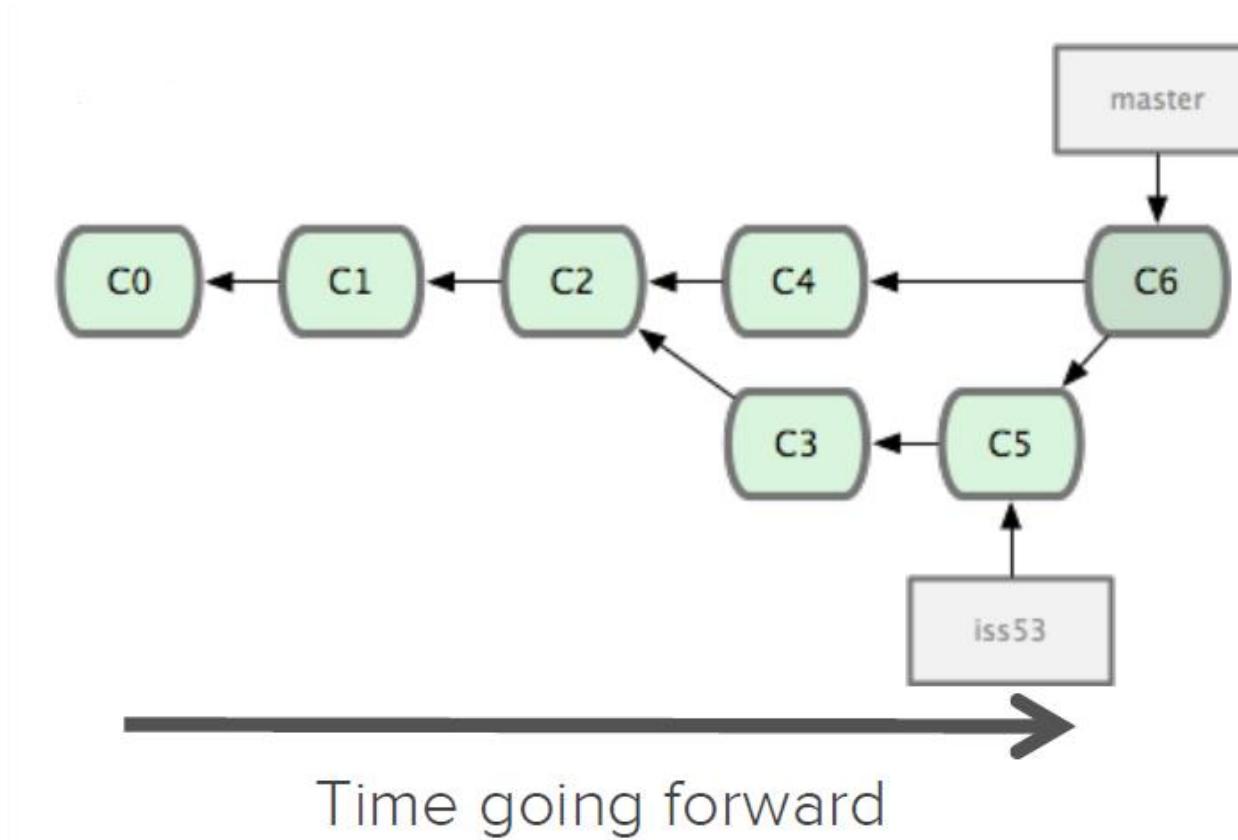
- The start of a branch points to a specific commit
- When you want to make any changes to your project you make a new branch based on a commit



How does Git work?

Key Concepts: Merging

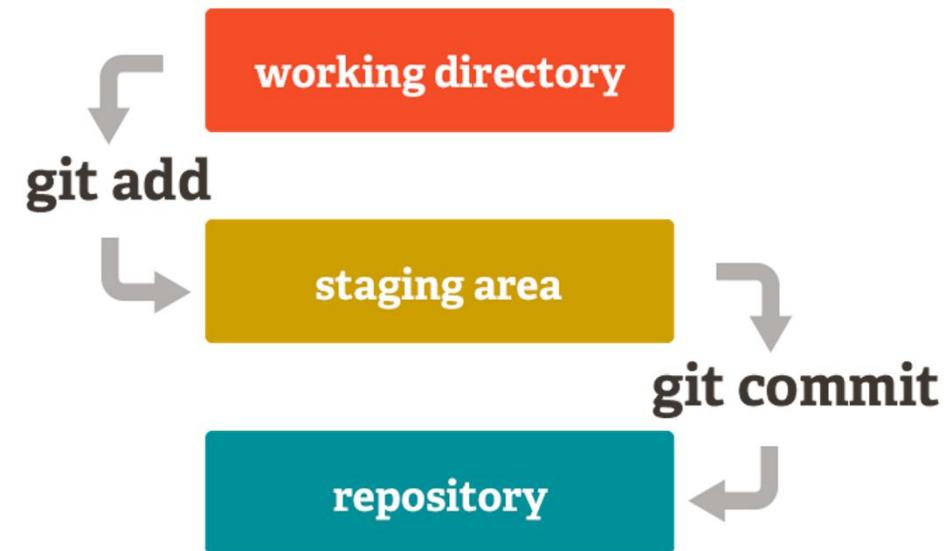
- Once you're done with your feature, you merge it back into master



How does Git work?

Key Concepts: How to make a Commit

- Make some changes to a file
- Use the '[git add](#)' command to put the file onto the staging environment
- Use the '[git commit](#)' command to create a new commit'



Install Git (Command Line)

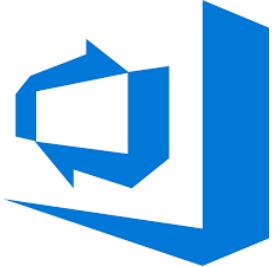
- Mac

<http://git-scm.com/download/mac>

- Windows

<http://git-scm.com/download/win>

Remote Repository Services



- **Azure DevOps**

<https://azure.microsoft.com/en-us/services/devops/>



- **GitHub**

<https://github.com>

Quick example using Git – First Step

CLONE LOCALLY A REPOSITORY

```
git clone https://github.com/ocpalps/parkmeter.git
```



WORK ON YOUR PROJECT

SAVE (LOCALLY) YOUR WORK

```
git add .
```

```
git commit -m "new stuff"
```

SAVE YOUR WORK TO THE REMOTE SERVER

```
git push
```

Quick example using Git – Daily workflow

CHECK IF ANY UPDATES FROM REMOTE SERVER

git pull

 WORK ON YOUR PROJECT

SAVE (LOCALLY) YOUR WORK

git add .

git commit -m "new stuff 2"

SAVE YOUR WORK TO THE REMOTE SERVER

git push

Quick example using Git – Branching and Merging

CREATE A NEW BRANCH AND SWITCH TO IT

```
git checkout -b "branch1"
```

 WORK ON YOUR FEATURE

SAVE (LOCALLY) YOUR WORK

```
git add .  
git commit -m "updated from branch1"
```

SAVE YOUR WORK TO THE REMOTE SERVER

```
git push
```

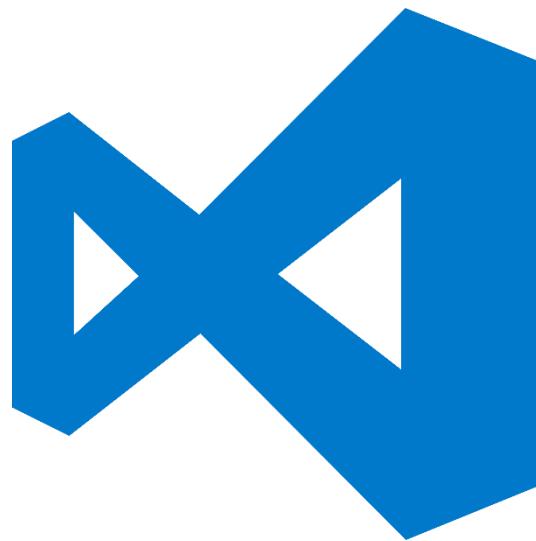
SWITCH TO THE BRANCH IN WHICH YOU WANT TO MERGE YOUR WORK

```
git checkout master
```

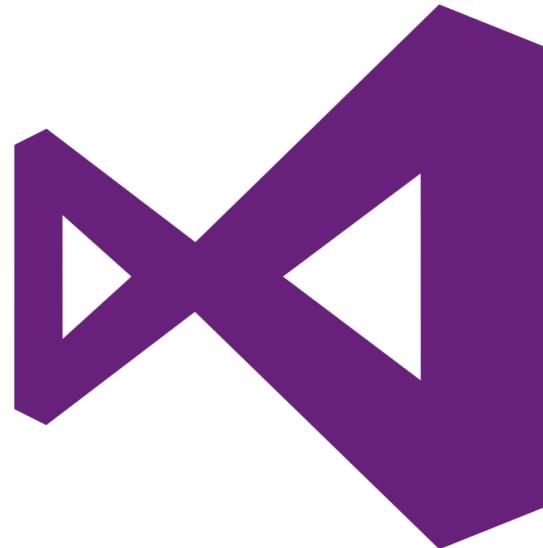
MERGE “BRANCH1” INTO “MASTER” AND SAVE TO THE REMOTE SERVER

```
git merge branch1  
git push
```

Using git with a UI



Visual Studio Code



Visual Studio



GitHub Desktop

Azure DevOps

#AzureDevOps



<https://azure.com/devops>



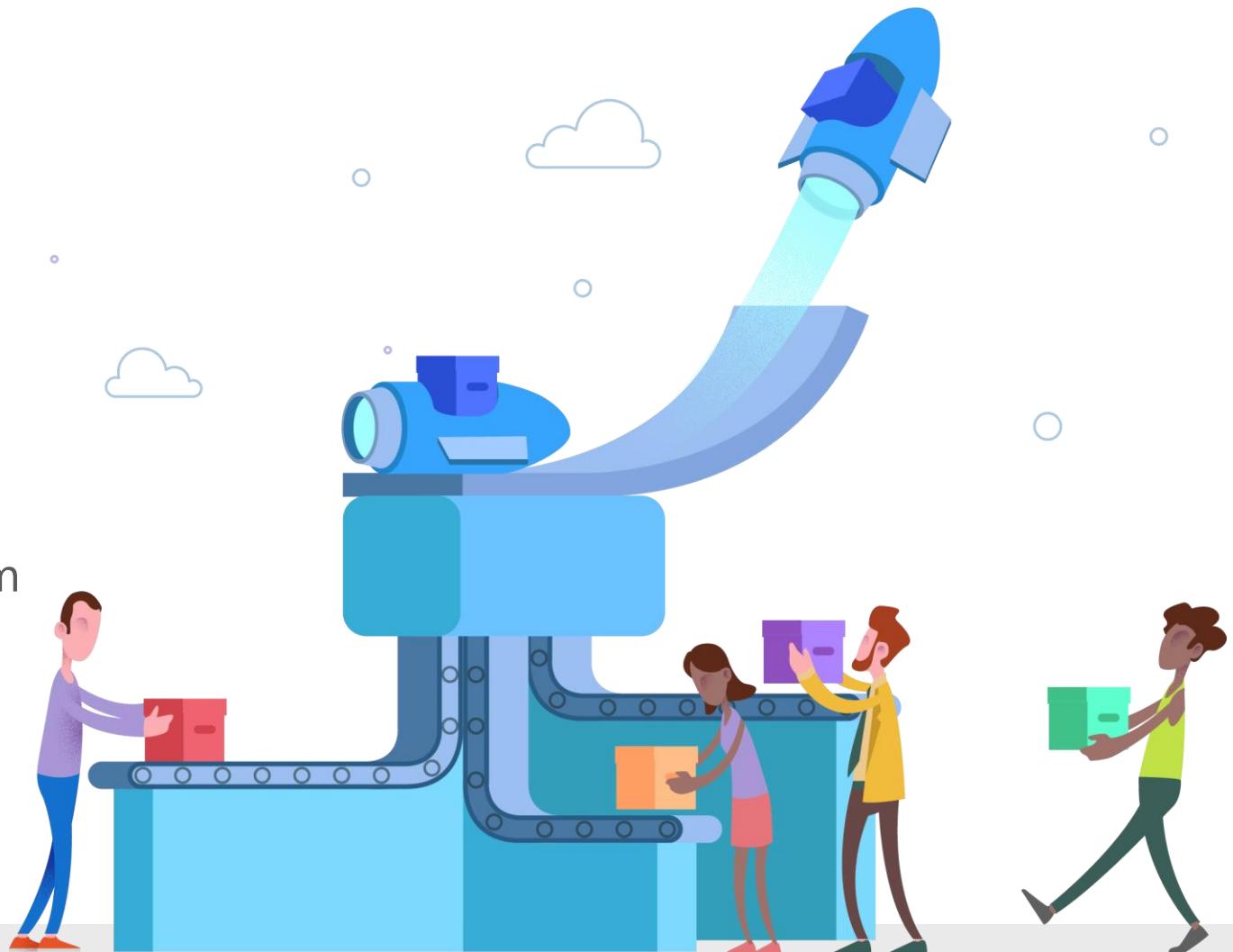
@AzureDevOps



<https://aka.ms/AzureDevOpsForum>



<https://aka.ms/DevOpsBlog/>



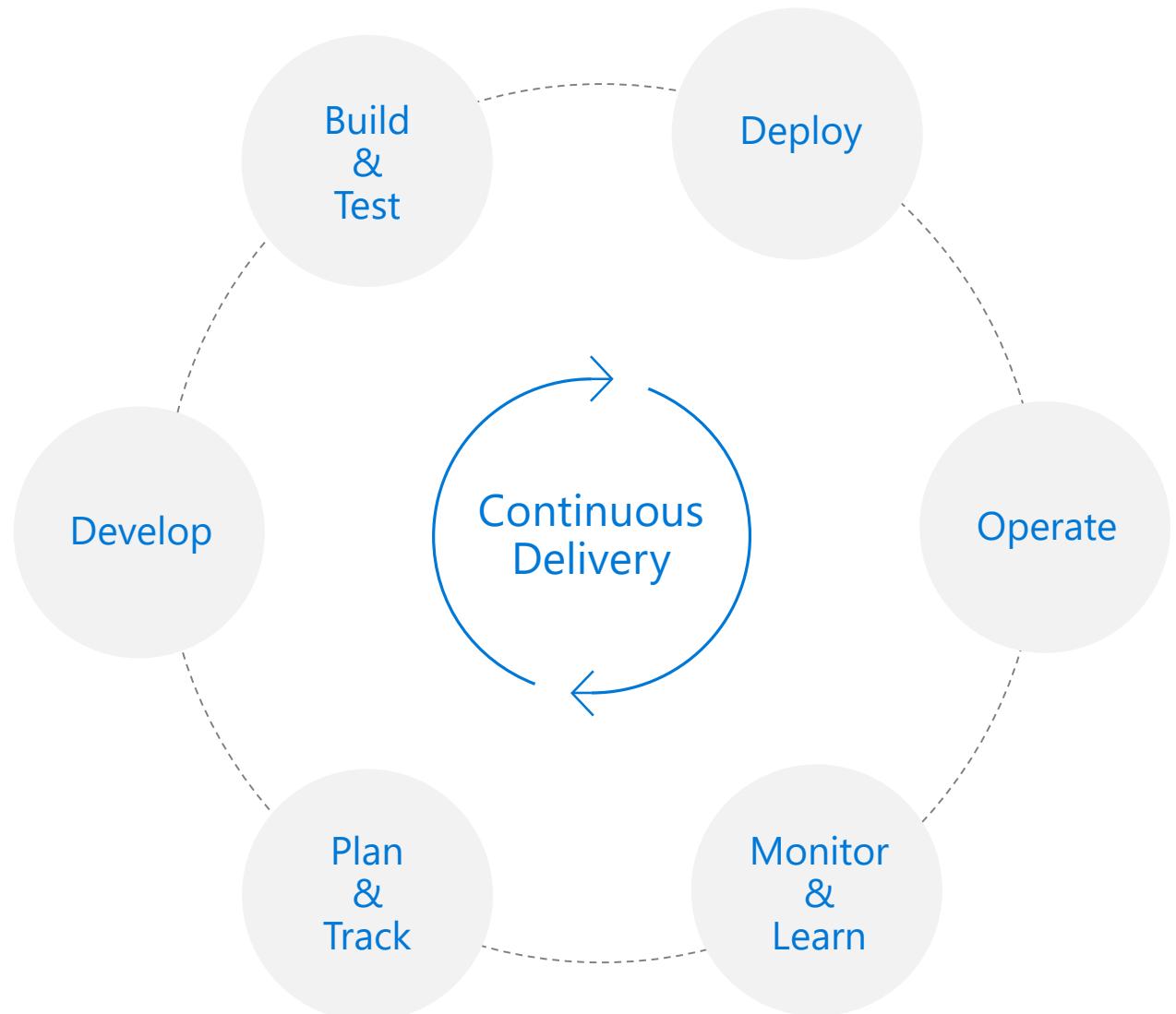
What is DevOps?

People. Process. Products.

“

DevOps is the union of **people**,
process, and **products** to
enable continuous delivery of
value to your end users.”

”



High Performance DevOps Companies Achieve...

46x Deployment Frequency

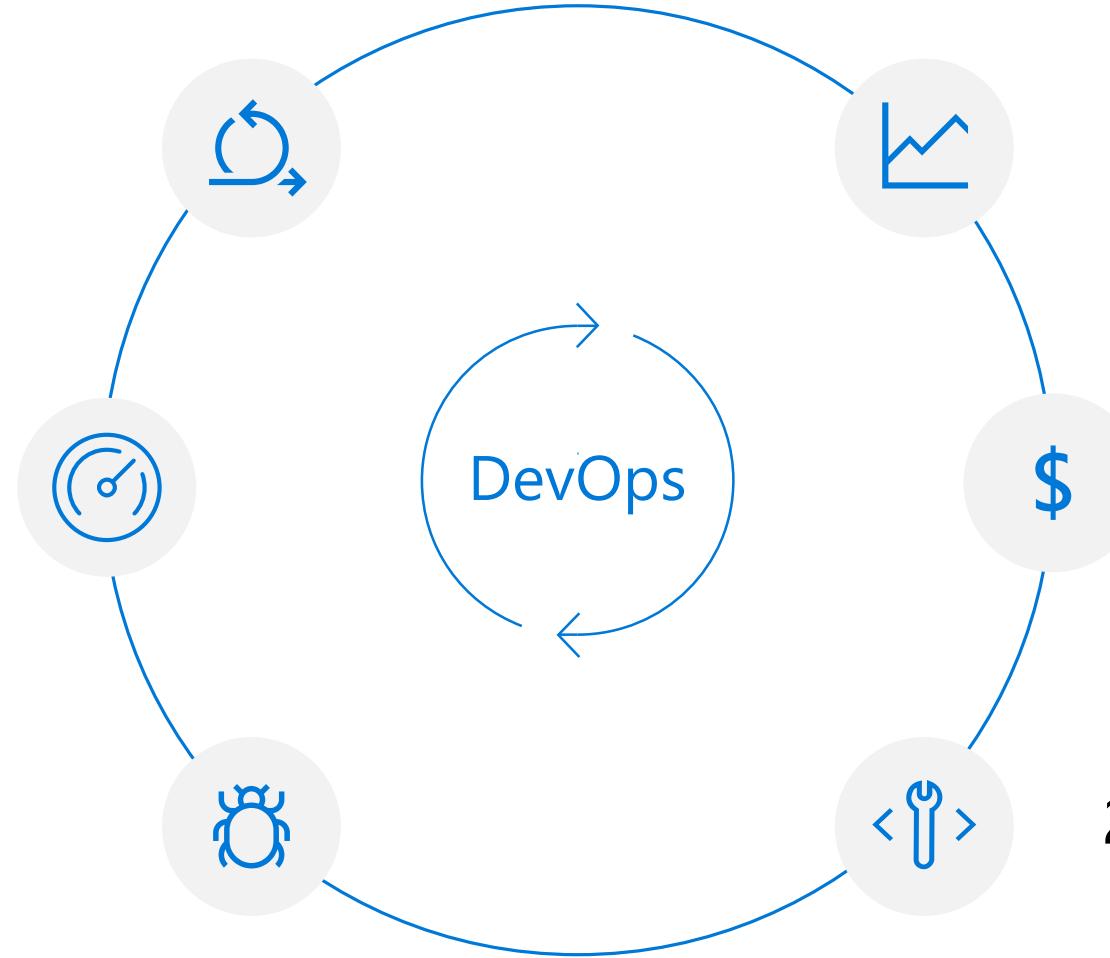
Faster Time to Market

7x Lower Change Failure Rate

2,555x Faster Lead Time For Changes

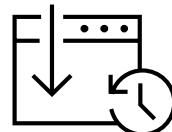
Increased Revenue

2,604x Faster Mean Time to Recover



What technologies do I need to support DevOps?

DevOps brings together people, processes, and technology, automating software delivery to provide continuous value to your users. Using Azure DevOps, you can deliver software faster and more reliably - no matter how big your IT department or what tools you're using.



Continuous Integration (CI)

- Improve software development quality and speed.
- When you use Azure Pipelines or Jenkins to build apps in the cloud and deploy to Azure, each time you commit code, it's automatically built and tested and bugs are detected faster.

101010
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Continuous Deployment (CD)

- By combining continuous integration and infrastructure as code (IaC), you'll achieve identical deployments and the confidence to deploy to production at any time.
- With continuous deployment, you can automate the entire process from code commit to production if your CI/CD tests are successful.



Continuous Learning & Monitoring

- With Azure Application Insights you can identify how your applications are performing and test if the recent deployment made things better or worse.
- Using CI/CD practices, paired with monitoring tools, you'll be able to safely deliver features to your customers as soon as they're ready.

Introducing Azure DevOps



Azure Boards

Deliver value to your users faster using proven agile tools to plan, track, and discuss work across your teams.



Azure Pipelines

Build, test, and deploy with CI/CD that works with any language, platform, and cloud. Connect to GitHub or any other Git provider and deploy continuously.



Azure Repos

Get unlimited, cloud-hosted private Git repos and collaborate to build better code with pull requests and advanced file management.



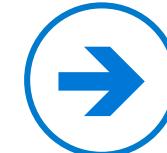
Azure Test Plans

Test and ship with confidence using manual and exploratory testing tools.



Azure Artifacts

Create, host, and share packages with your team, and add artifacts to your CI/CD pipelines with a single click.



<https://azure.com/devops>

Azure Pipelines

Cloud-hosted pipelines for Linux, Windows and macOS, with unlimited minutes for open source



Any language, any platform, any cloud

Build, test, and deploy Node.js, Python, Java, PHP, Ruby, C/C++, .NET, Android, and iOS apps. Run in parallel on Linux, macOS, and Windows. Deploy to Azure, AWS, GCP or on-premises



Extensible

Explore and implement a wide range of community-built build, test, and deployment tasks, along with hundreds of extensions from Slack to SonarCloud. Support for YAML, reporting and more



Containers and Kubernetes

Easily build and push images to container registries like Docker Hub and Azure Container Registry. Deploy containers to individual hosts or Kubernetes.



Best-in-class for open source

Ensure fast continuous integration/continuous delivery (CI/CD) pipelines for every open source project. Get unlimited build minutes for all open source projects with up to 10 free parallel jobs across Linux, macOS and Windows

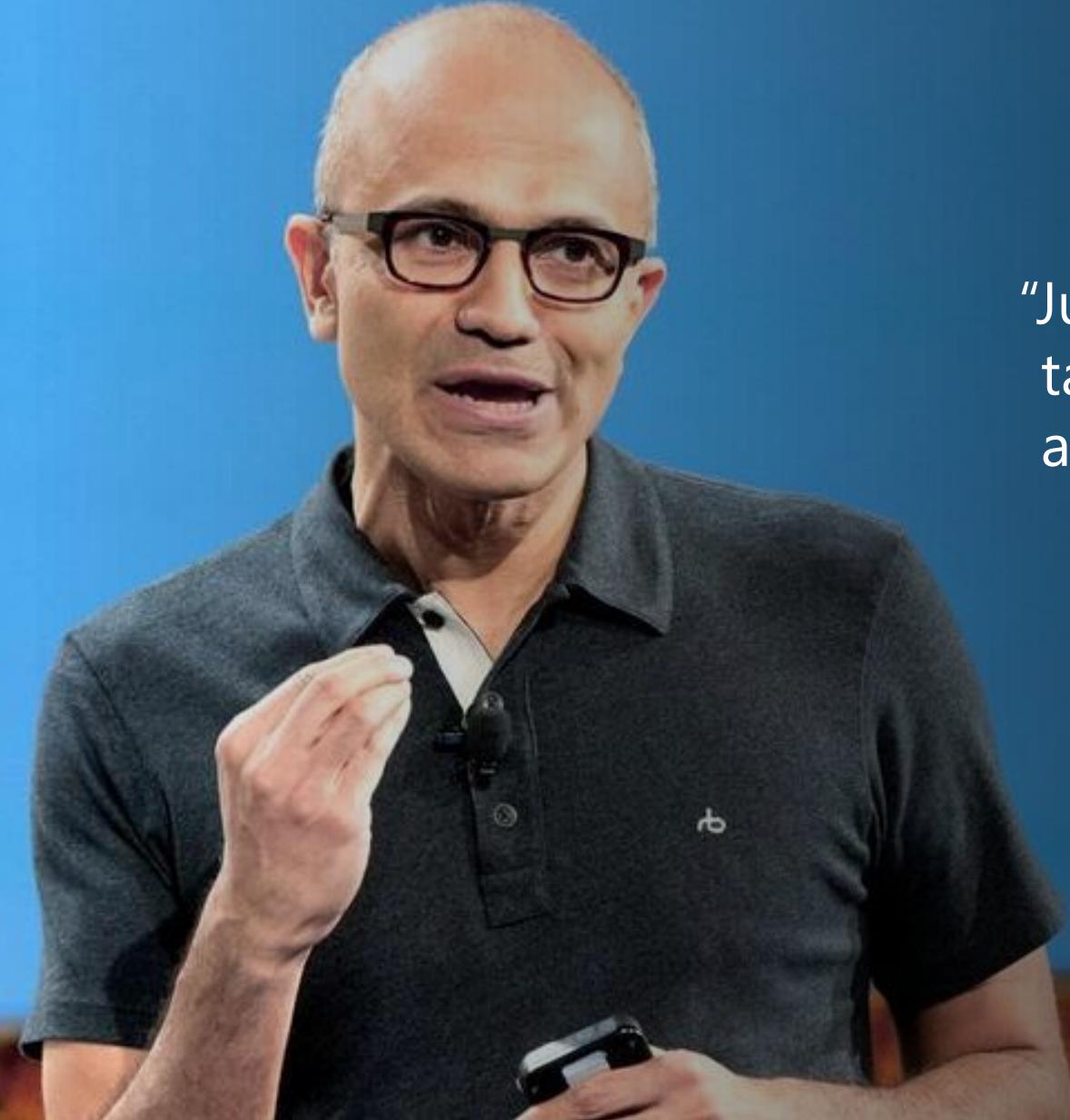
The screenshot shows the Azure DevOps Pipelines interface for the AdventureWorks Mobile project. The pipeline is titled "Enabling feature flags for Preview Attachment and Grid Views". It includes three parallel jobs: "Windows Job" (Running, 1m 53s), "Linux Job" (Running, 3m 29s), and "macOS Job" (Running, 3m 07s). The "Logs" tab is selected, displaying the command-line output for the macOS job:

```
yarn install v1.7.0
$ node build/npm/preinstall.js
[1/4] Resolving packages...
[2/4] Fetching packages...
[3/4] Linking dependencies...
[4/4] Building fresh packages...
$ npm run compile
> code-oss-dev-build@1.0.0 compile ./adventureworks/build
> tsc -p tsconfig.build.json

* Done in 4.89s.
$ node ./postinstall
[##] 2/2 removed './adventureworks/extensions/node_modules/typescript/lib/tsc.js'
removed './adventureworks/extensions/node_modules/typescript/lib/tsserverlibrary.d.ts'
removed './adventureworks/extensions/node_modules/typescript/lib/tsserverlibrary.js'
removed './adventureworks/extensions/node_modules/typescript/lib/typescriptServices.d.ts'
removed './adventureworks/extensions/node_modules/typescript/lib/typescriptServices.js'
```



<https://azure.com/pipelines>

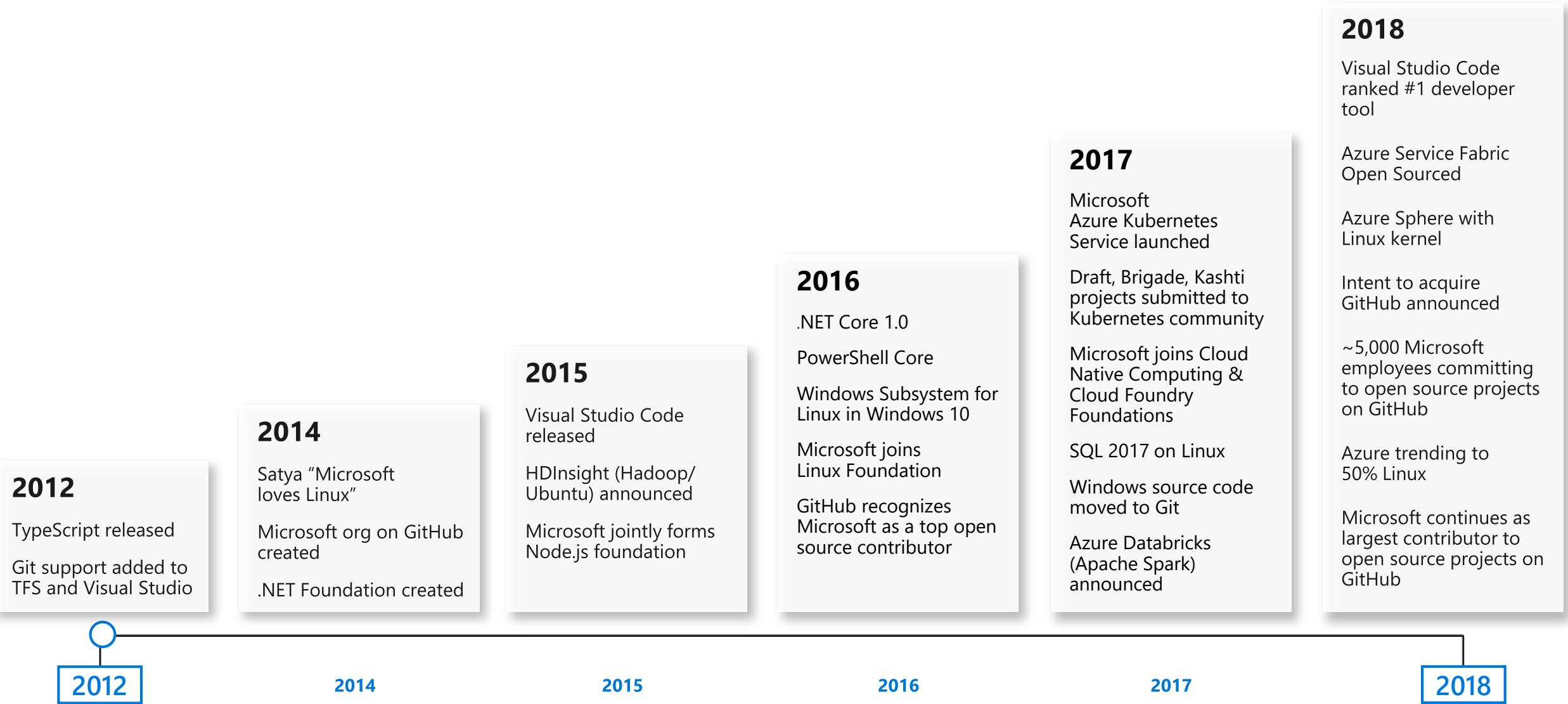


"Judge us by the actions we have taken in the recent past, our actions today and in the future"

—Satya Nadella, CEO
Microsoft

2018

Microsoft ❤️ Open Source





Azure Pipelines

Free **unlimited** build minutes for
public projects

Up to 10 free parallel jobs across
Windows, Linux and macOS



<https://azure.com/pipelines>

Microsoft ❤️ Open Source



Integrated with GitHub

Azure Pipelines available now to
any developer from the GitHub
Marketplace

The screenshot shows the Azure Pipelines page in the GitHub Marketplace. At the top, there's a search bar and navigation links for Pull requests, Issues, Marketplace, and Explore. Below the header, the page title is "Azure Pipelines". There are two buttons: "Set up a new plan" (green) and "Edit your plan ▾" (grey). A main heading "Azure Pipelines" is followed by the subtext "Continuously build, test, and deploy to any platform and cloud". A brief description states: "Azure Pipelines offers cloud-hosted pipelines for Linux, macOS, and Windows with 10 free parallel jobs and unlimited minutes for open source projects." A "Read more..." link is present. On the left, there's a sidebar with sections for "Categories" (Continuous integration, Deployment), "Supported languages" (Dockerfile, Go, Java, and 7 other languages supported), and "Developer links" (Support, Status, Documentation, Privacy Policy). On the right, a large blue box highlights "Linux, macOS, and Windows agents" with the subtext "Simplify managing hardware and VMs by using Microsoft cloud-hosted agents. Get full CI/CD pipeline support for every major platform and tool." It shows a flowchart of a CI/CD pipeline: "Test" (27 succeeded), "Build Linux" (6 succeeded), "Build Windows" (2 succeeded), "Build macOS" (64% in progress...), and a final "Distribute" step.

Azure Boards

Track work with Kanban boards, backlogs, team dashboards, and custom reporting



Connected from idea to release

Track all your ideas at every development stage and keep your team aligned with all code changes linked directly to work items.



Scrum ready

Use built-in scrum boards and planning tools to help your teams run sprints, stand-ups, and planning meetings.



Project insights

Gain new insights into the health and status of your project with powerful analytics tools and dashboard widgets.



<https://azure.com/devops>

The screenshot shows the Azure DevOps Boards interface for the 'FabrikamFiber' project. The left sidebar includes links for 'AdventureWorks Mobile', 'Overview', 'Boards' (which is selected), 'Work Items', 'Backlogs', 'Sprints', 'Queries', 'Plans', 'Repos', 'Pipelines', 'Test Plans', and 'Artifacts'. The main area is titled 'FabrikamFiber Board' and displays a Kanban board with columns for 'New', 'Active', '5/5 Staging', and '15/5 Deployed'. The 'New' column contains a 'New item' card for 'Hotels filter page' by 'Carlos Slattery' under 'Xamarin'. The 'Active' column contains cards for 'Home page (selected room)' by 'Kat Larson' (Design), 'Top page controls' by 'Celeste Burton' (ML, Xamarin), 'Guests page' by 'Carole Poland' (ML, Xamarin), 'NFC open door' by 'Cecil Folk' (Spike, Xamarin), 'Room Tab' by 'Celeste Burton' (Rooms [Detail]), 'Map filter' by 'Carole Poland' (General, Room [List]), 'Hotel reviews page' by 'Celeste Burton' (Rooms [Detail]), and 'Adapt some parts of UI to UWP for Desktop' by 'Carole Poland' (Blocked, Xamarin). The 'Staging' and 'Deployed' columns also contain several cards related to mobile application components like 'Mobile (Spike)', 'Mobile (Design)', 'Footer', 'Entry + validations', 'Navigation menu', 'Login page', 'Ambient settings', and 'Notifications list'.

Azure Repos

Unlimited private Git repo hosting and support for TFVC that scales from a hobby project to the world's largest Git repositories



Works with your Git client

Securely connect with and push code into your Git repos from any IDE, editor, or Git client.



Web hooks and API integration

Add validations and extensions from the marketplace or build your own using web hooks and REST APIs.



Semantic code search

Quickly find what you're looking for with code-aware search that understands classes and variables.



<https://azure.com/devops>

The screenshot shows the Azure DevOps interface for the 'AdventureWorks Mobile' project. The left sidebar has a dark theme with white icons and text. It includes links for Overview, Boards, Repos (which is selected), Files, Commits, Pushes, Branches, Tags, Pull requests (also selected), Pipelines, Test Plans, and Artifacts. At the bottom of the sidebar is a 'Project settings' link. The main content area is titled 'Pull requests' and shows a list of pull requests under four categories: 'Mine', 'Active', 'Completed', and 'Abandoned'. The 'Mine' tab is selected. A search bar at the top of the list allows filtering by keyword or ID. Below the search bar are sections for 'Created by me', 'Assigned to me', and 'Assigned to my team', each listing several pull requests with their titles, creators, and descriptions. The interface uses a light gray background with blue and orange highlights for selected items and active tabs.

Azure Test Plans

Get end-to-end traceability. Run tests and log defects from your browser. Track and assess quality throughout your testing lifecycle.



Capture rich data

Capture rich scenario data as you execute tests to make discovered defects actionable. Explore user stories without test cases or test steps. You can create test cases directly from your exploratory test sessions.



Test across web and desktop

Test your application where it lives. Complete scripted tests across desktop or web scenarios. Test on-premises application from the cloud and vice-versa.

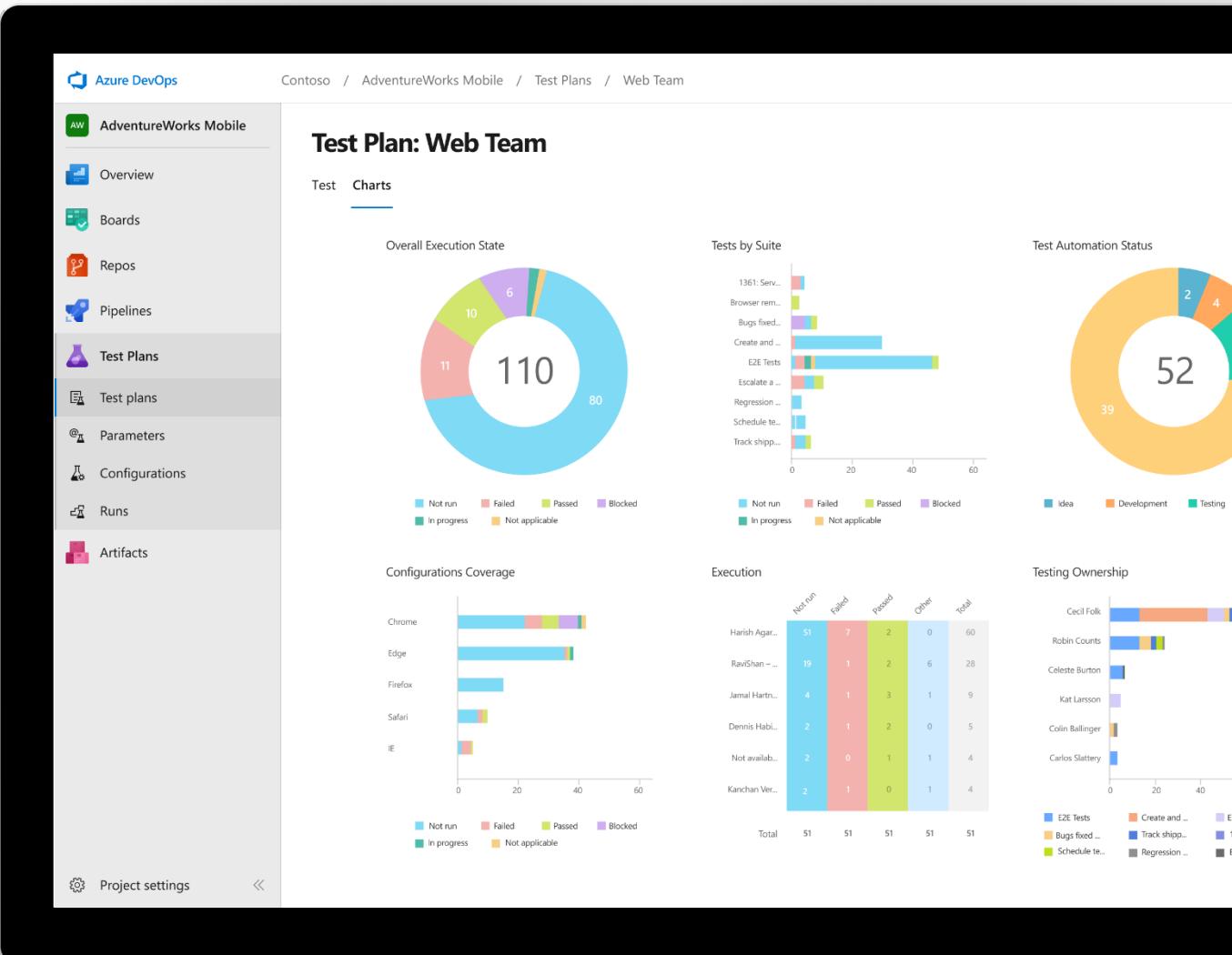


Get end-to-end traceability

Leverage the same test tools across your engineers and user acceptance testing stakeholders. Pay for the tools only when you need them.



<https://azure.com/devops>



Azure Artifacts

Create and share Maven, npm, and NuGet package feeds from public and private sources – fully integrated into CI/CD pipelines



Manage all package types

Get universal artifact management for Maven, npm, and NuGet.



Add packages to any pipeline

Share packages, and use built-in CI/CD, versioning, and testing.



Share code efficiently

Easily share code across small teams and large enterprises.



<https://azure.com/devops>

The screenshot shows the Azure DevOps interface for managing artifacts. On the left, there's a sidebar with links for 'AdventureWorks Mobile' (selected), 'Overview', 'Boards', 'Repos', 'Pipelines', 'Test Plans', and 'Artifacts'. The main area is titled 'Artifacts' and shows a table of packages. The columns are 'Package', 'Views', 'Source', 'Last pushed', and 'Description'. The packages listed are:

Package	Views	Source	Last pushed	Description
abbrev		nuget	a year ago	Like ruby's abbrev module, but in js
accepts		npmjs	a year ago	Higher-level content negotiation
acorn		MyFeed	a year ago	ECMAScript parser
acorn-dynamic-import		maven	a year ago	Support dynamic imports in acorn
aclr-jsx		nuget	a year ago	Alternative, faster React.js JSX parser
acorn-object-spread		maven	a year ago	Custom JSON-Schema keywords for ajv validator
ajv		npmjs	a year ago	Alphanumeric sorting algorithm
ajv-keywords		nuget	a year ago	ANSI escape codes for manipulating the terminal
alphanum-sort		npmjs	a year ago	An elegant lib that converts the chalked (ANSI) text to HTM

Azure DevOps

Better together



Azure Boards



Azure Repos



Azure Pipelines



Azure Test Plans



Azure Artifacts

An end-to-end solution for organizations looking for an enterprise-grade toolchain

Fully Integrated
with end
to end
traceability

Scalable to
any team
and project
size

Highly
available,
multi region,
hybrid
cloud &
on-prem

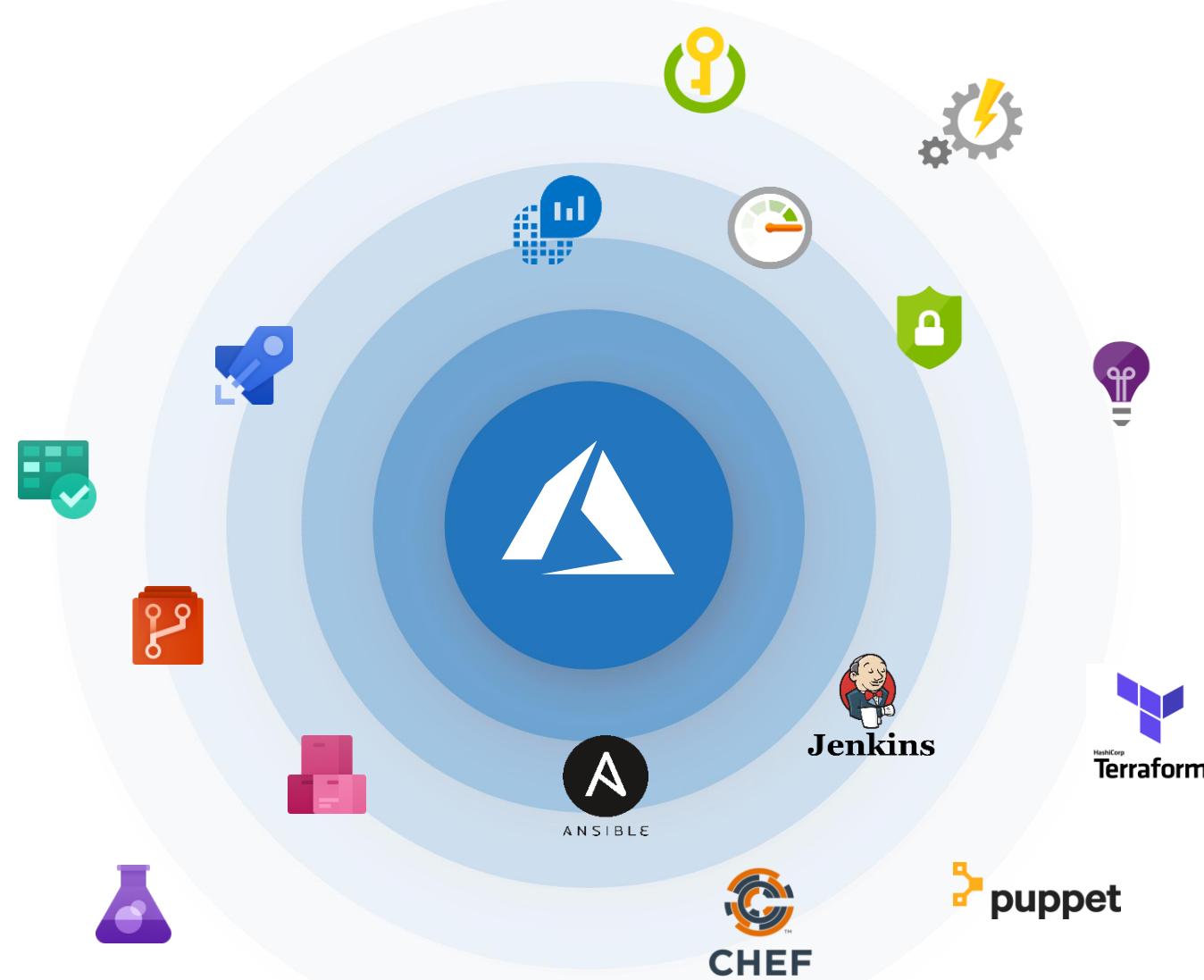
Customer
Support

Consistent
admin
and access
control



<https://azure.com/devops>

Broadening the Azure Ecosystem



Smarter Insights, Faster

Azure Monitor, Application Insights & Log Analytics

- Pre-defined solutions with smart thresholds
- Visualize data in intuitive and customizable dashboards
- Separate the signal from the noise and accelerate root-cause analysis
- Integrate your existing processes & tools like Service Now



DevOps at Microsoft

Azure DevOps is the toolchain of choice for Microsoft engineering with over 90,000 internal users



<https://aka.ms/DevOpsAtMicrosoft>

372k

Pull Requests per month

4.4m

Builds per month

5m

Work items viewed per day

2m

Git commits per month

500m

Test executions per day

500k

Work items updated per day

78,000

Deployments per day

Data: Internal Microsoft engineering system activity, August 2018

Azure DevOps



Azure Boards



Azure Repos



Azure Pipelines



Azure Test Plans



Azure Artifacts



Plan smarter, collaborate better, and ship faster with a set of modern dev services



Any developer, any platform, any cloud. Full support for hybrid cloud, on-premises & containers.



Use all the Azure DevOps services or choose just what you need to complement your existing workflows



Best in class builds for open source. Free unlimited build minutes for public projects and up to 10 free concurrent jobs across Windows, Linux and macOS



Get started for free for small teams, scales to support the largest enterprises

Start free today



<https://azure.com/devops>

Azure DevOps Services Pricing

Open Source Projects

Free

Unlimited users and build time

- **Azure Pipelines:** 10 parallel jobs with unlimited minutes for CI/CD
- **Azure Boards:** Work item tracking and Kanban boards
- **Azure Repos:** Unlimited public Git repos

Small Teams

Free

Start free with up to 5 users

- **Azure Pipelines:** Run 1 Microsoft-hosted job for 1,800 minutes per month and 1 self-hosted job for any amount of time
- **Azure Boards:** Work item tracking and Kanban boards
- **Azure Repos:** Unlimited public Git repos
- **Azure Artifacts:** package management
- Unlimited stakeholders

Teams of any size

Starts at \$6

per user, per month for Boards & Repos*

Easy pricing that grows with your team

- **Azure Pipelines:** Run 1 Microsoft-hosted job for 1,800 minutes per month and 1 self-hosted job for any amount of time
- **Azure Boards:** Work item tracking and Kanban boards
- **Azure Repos:** Unlimited public Git repos
- **Azure Artifacts:** package management
- Unlimited stakeholders
- Boards & Repos included for Visual Studio subscribers



<https://azure.com/pricing/details/devops/>

* 5 Boards & Repos users and 5 Artifacts users free. Pipelines with unlimited minutes, Test Plans users and additional Artifacts users also available. Please see the Azure pricing calculator for details.

Thank You

ευχαριστώ Salamat Po متشرّم شكرًا Grazie

благодаря ありがとうございます Kiitos Teşekkürler 谢谢

ឃុំបញ្ជីណូរវិប Obrigado شكريه Terima Kasih Dziękuję

Hvala Köszönöm Tak Dank u wel дякую Tack

Mulțumesc спасибо Danke Cám ơn Gracias

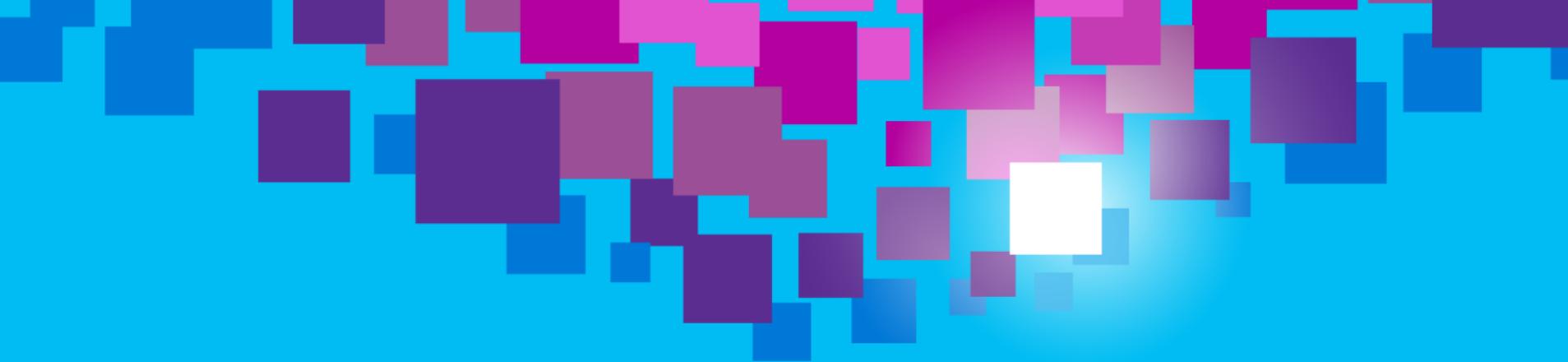
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Power Platform

Scarica qui la presentazione su Power Platform:

<https://aka.ms/ItaBcDevOpsPP>

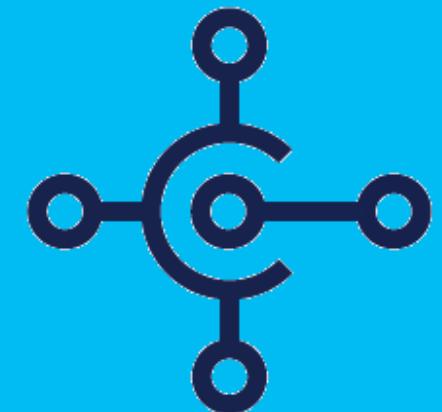


DevOps with Dynamics 365 Business Central

Stefano Demiliani

demiliani@outlook.com

<http://www.demiliani.com>



Fall 2019 Changes



October 2019 is Modern Client Only

- Delivering features to ensure user productivity
- April 2019 is the **last release** of the Windows client
- The Windows client **is retired** with the Autumn 2019 release

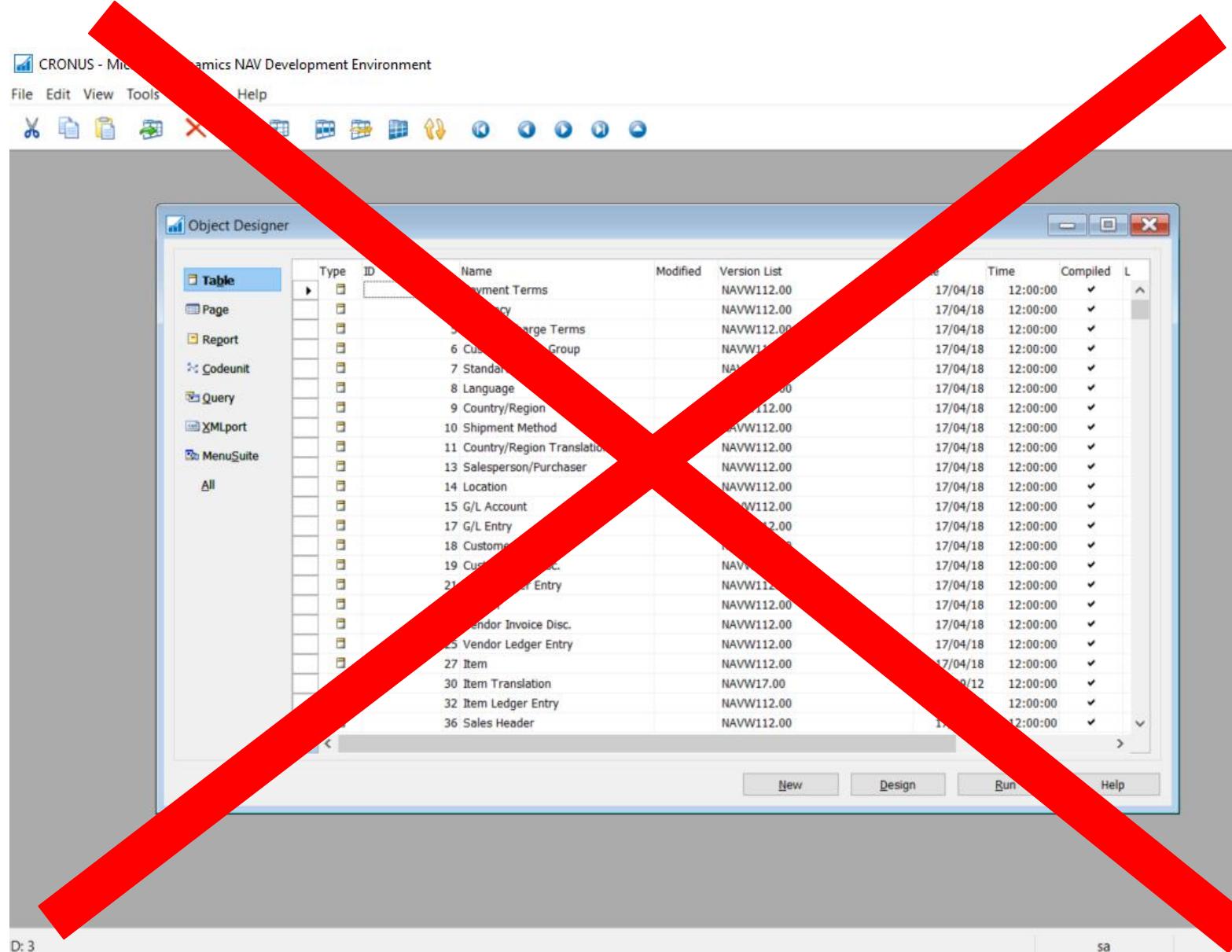
October 2019 is VS Code and AL Only

- Delivering features to replace C/SIDE tasks
- April 2019 is the **last release** of the C/AL source code
- Leverage the TXT2AL Tools; look for tech talks on best practices
- In October 2019, we ship our application **in AL with VS Code only**

Customizations are done through Extensions

- Start moving to Extensions now
- Hard task – but enormous benefits moving forward
- Extensions **and** source code modifications allowed **on-premises**
- In the future, on-premises will follow cloud rules

Handling a Dynamics 365 Business Central Project



No more all in a single box!

Docker-based environments



AL project files and folders



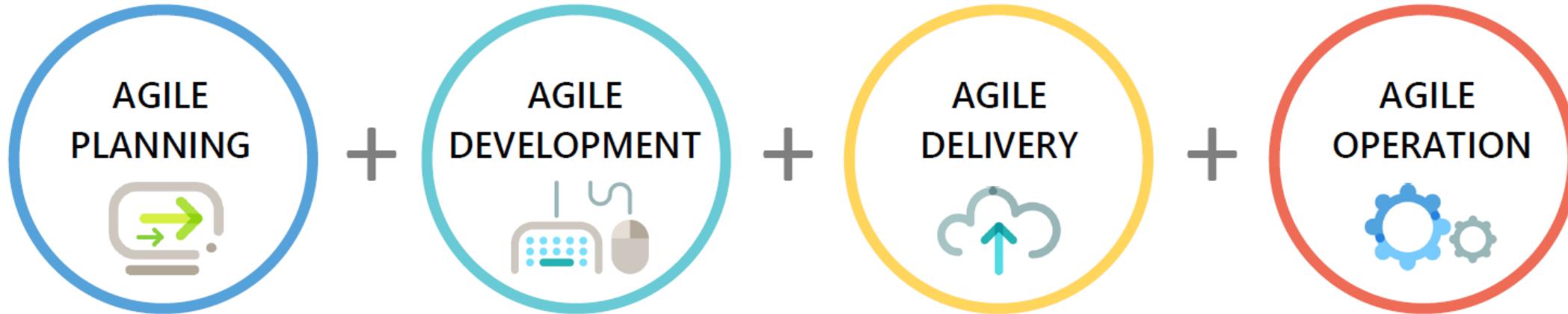
Visual Studio Code



Working in team is hard

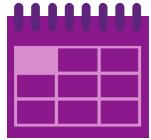


DevOps for Dynamics 365 Business Central Projects



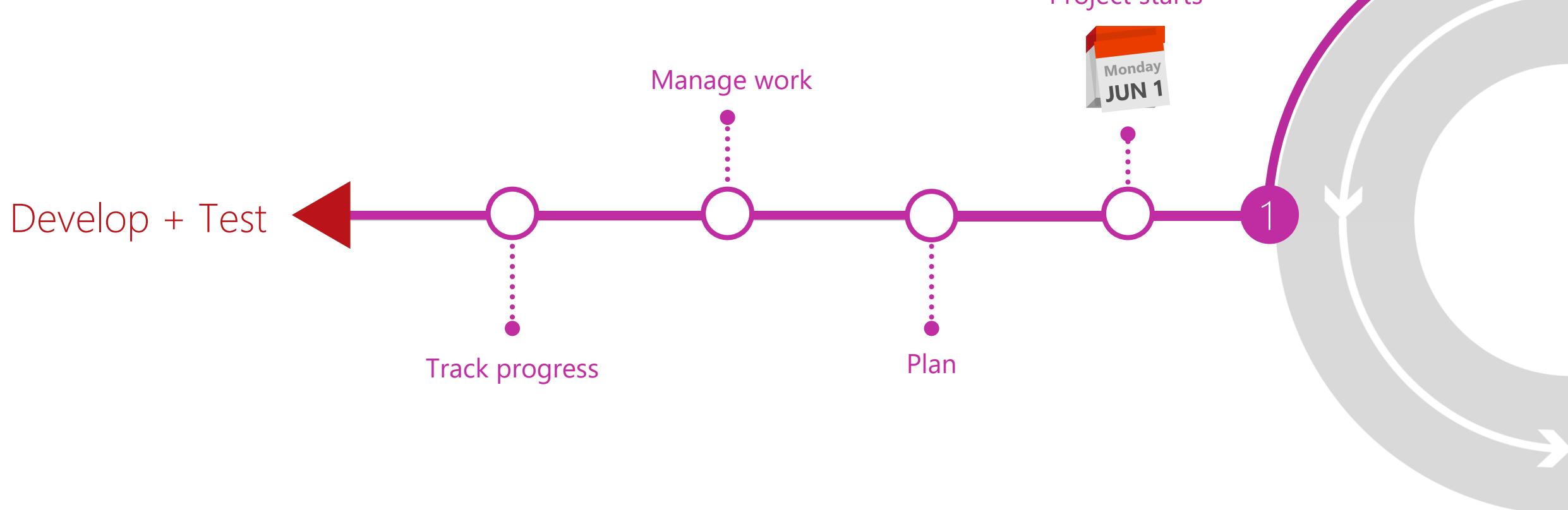
Why using Azure DevOps NOW for a Dynamics 365 Business Central extensions development project?

- Project Management
- Source Code Management
- CI/CD



Plan

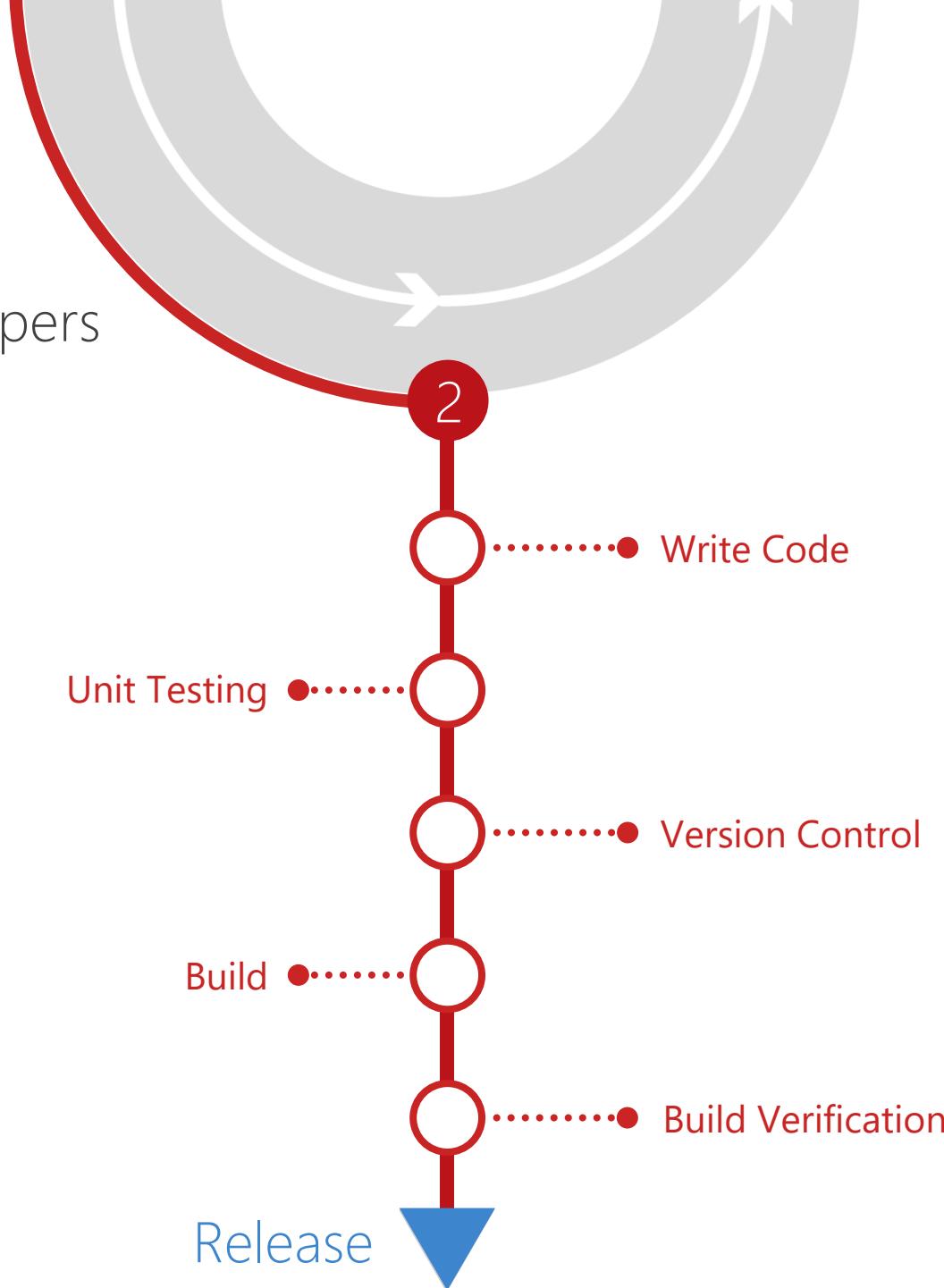
It starts with an idea – and a plan
how to turn this idea into reality ...





Develop + Test

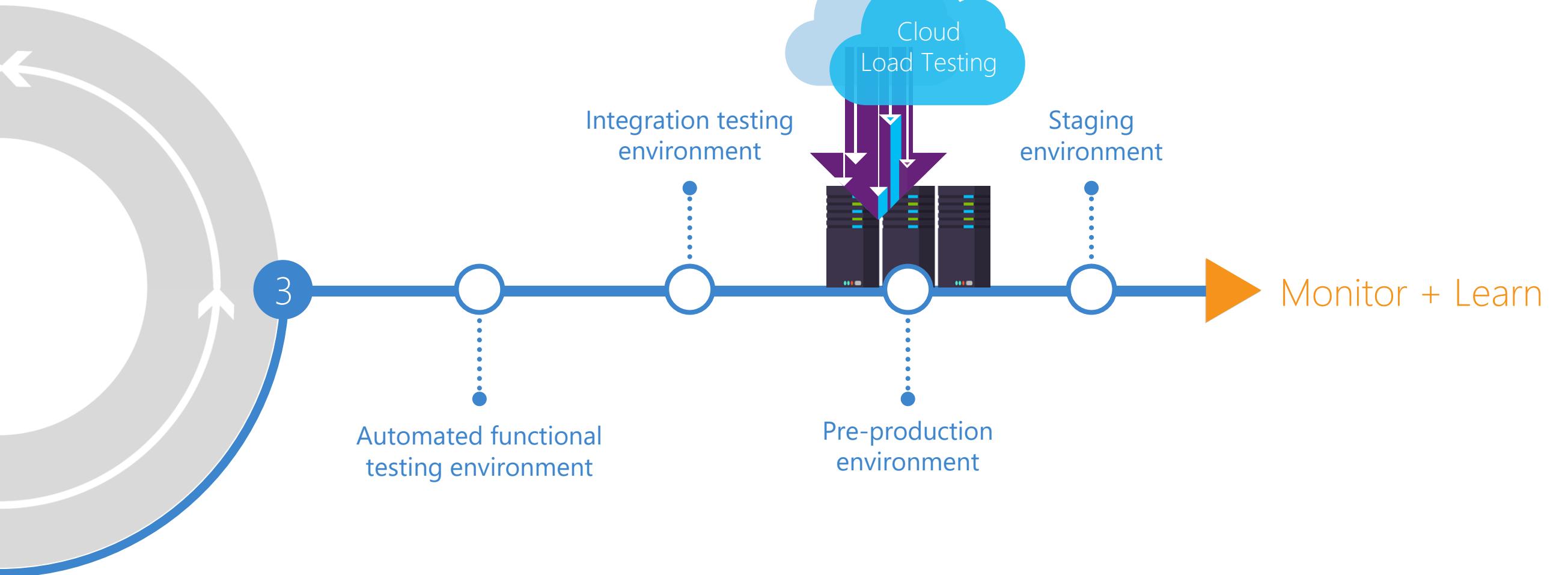
Once the iteration starts, developers turn great ideas into features ...



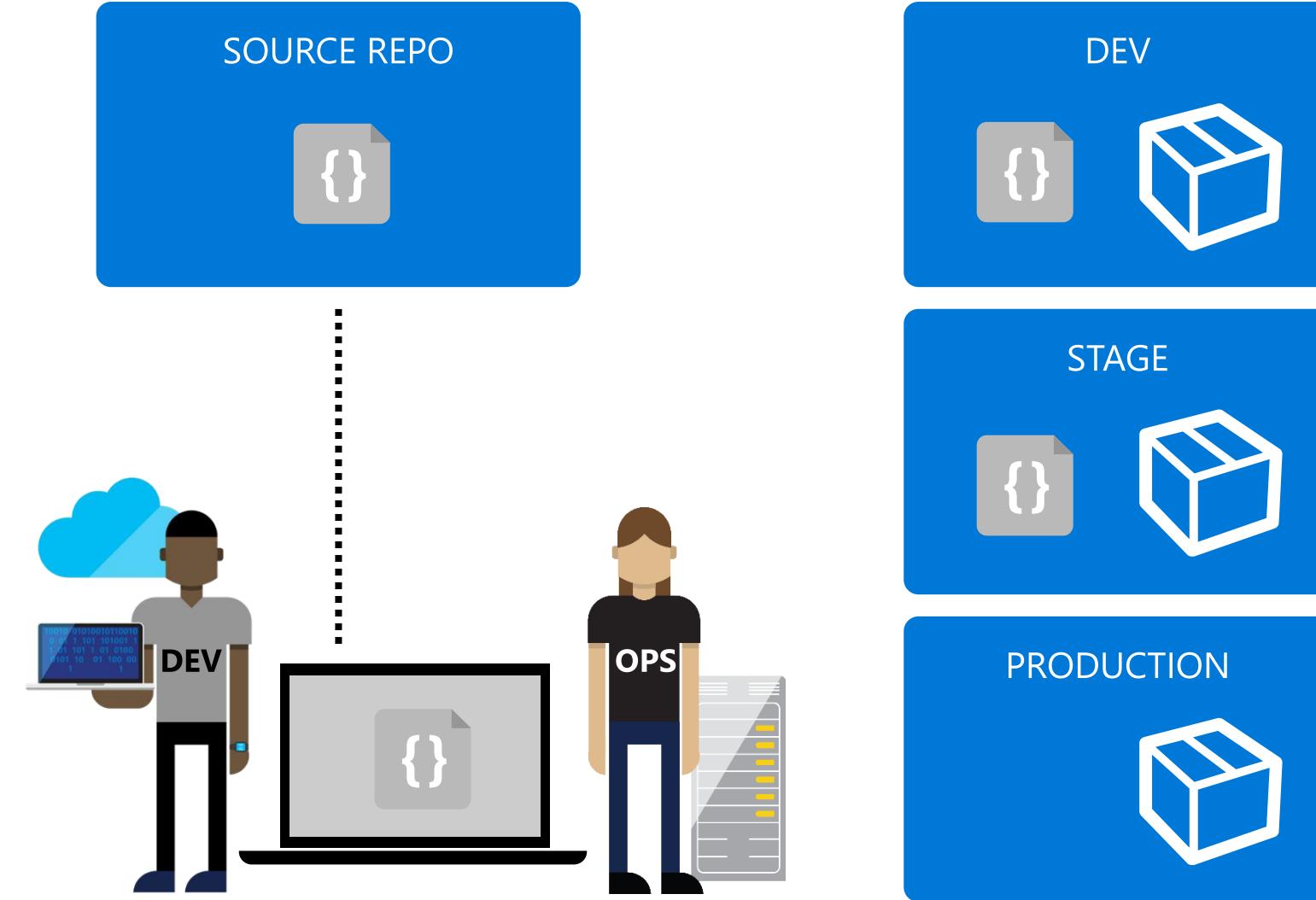


Release

When all tests pass, the build is deployed to testing environments for each stage in the release process



Release Management

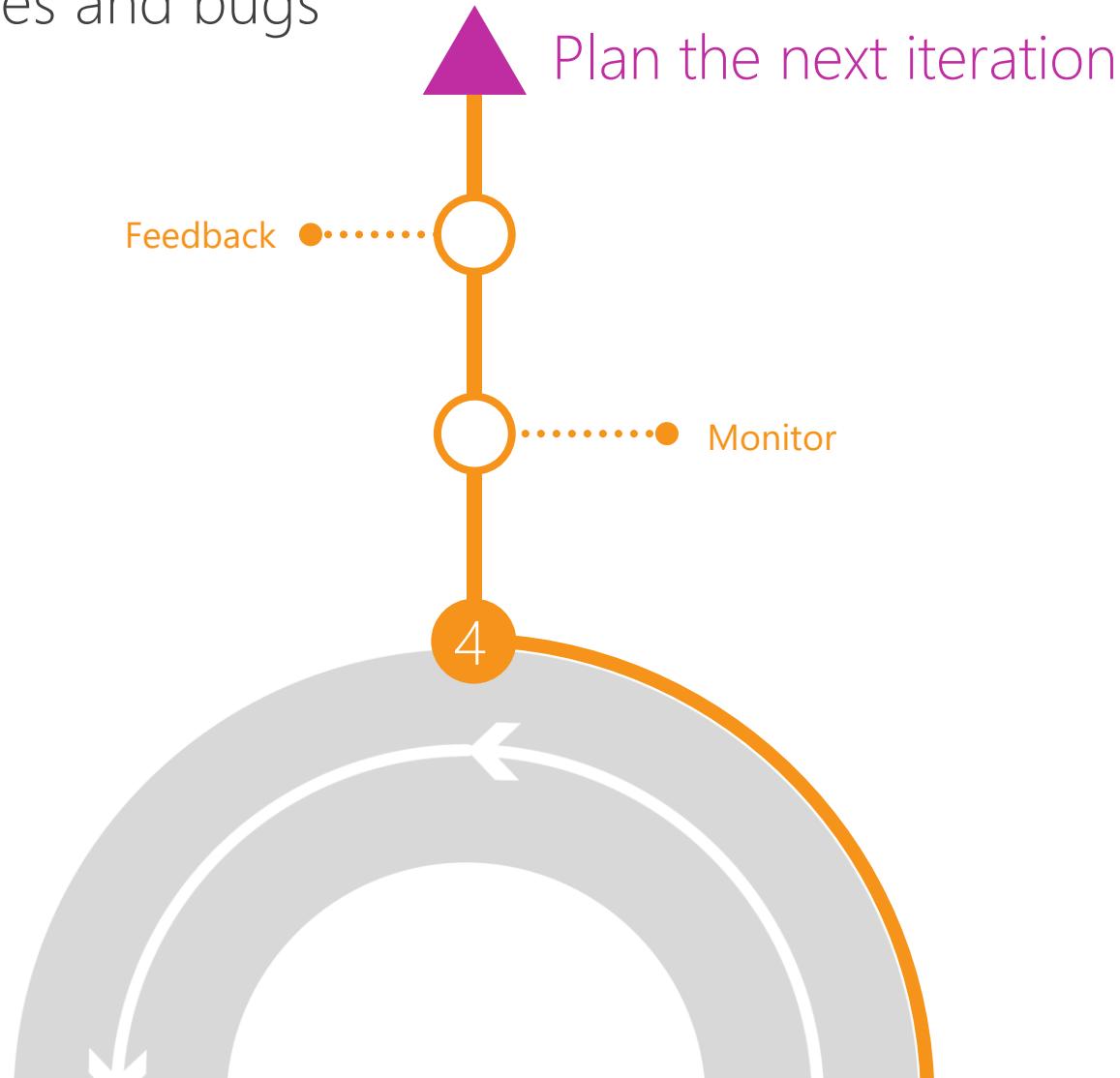


Start thinking to
a modern
release process
for your
applications!

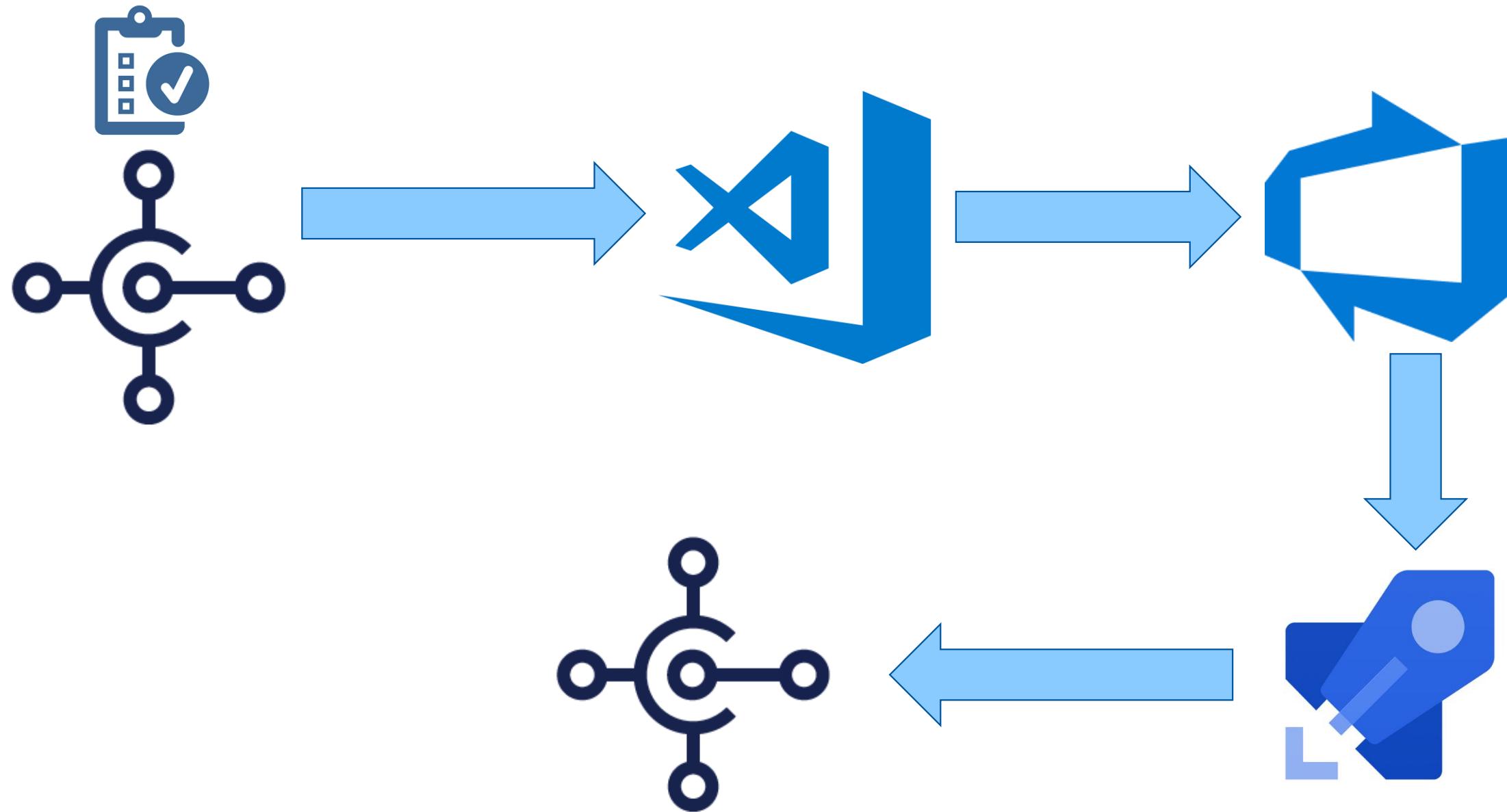


Monitor + Learn

Learn and understand how users use your app, how it reacts and quickly fix issues and bugs



Modern AL Development Flow



D	D365BCWorkshop	+
 Overview		
 Boards		
 Work Items		
 Boards		
 Backlogs		
 Sprints		
 Queries		
 Plans		
 Repos		
 Pipelines		
 Test Plans		
 Artifacts		

D365BCWorkshop Team  

 New Work Item  View as Board  Column Options ...

	Order	Work Item Type	Title	State	E1
1	Product Backl...	 Requirement definition		 Committed	
2	Product Backl...	 Technical analysis		 Approved	
	Task	 Technical documentation		 Done	
3	Product Backl...	 Release version 1		 Approved	
	Task	 Feature 1 implementation		 In Progress	
	Task	 Feature 2 implementation		 In Progress	
	Task	 Features integration (step 1)		 To Do	
	Task	 Release version 1 to testing sandbox environment		 To Do	
4	Product Backl...	 Release version 2		 Approved	
	Task	 Feature 2.1 implementation		 To Do	
	Task	 Features Integration		 To Do	
5	Product Backl...	 Release version 3		 New	



D D365BCWorkshop
+ Overview
Boards
Work Items
Boards
Backlogs
Sprints
Queries
Plans
Repos
Pipelines
Test Plans
Artifacts

D365BCWorkshop Team star 8

Taskboard Backlog Capacity | + New Work Item Column Options ...

April 1 - May 10
23 work days remaining

Sprint 5 Filter Settings More

Order Title State Assigned To

+ 1 Release version 2 ... Approved

Feature 2.1 implementation To Do

Features Integration To Do

Planning
Drag and drop work items to include them in a sprint.

D365BCWorkshop Team Backlog

Sprint 5 Current 4/1/2019 - 5/10/2019
Planned Effort: -
1 2

Sprint 6 5/13/2019 - 6/21/2019
Planned Effort: -
1

+ New Sprint



demiliani / D365BCWorkshop / Boards / Boards

Search



D D365BCWorkshop



D365BCWorkshop Team

View as Backlog

Backlog items

Boards

Work Items

Boards

Backlogs

Sprints

Queries

Plans

Repos

Pipelines

Test Plans

Artifacts

New

Approved

3/5

Committed

1/5

Done

<

New item

10 Technical analysis

State Approved

1/1

23 Release version 3

State New

13 Release version 1

Stefano Demiliani

State Approved

0/4

19 Release version 2

State Approved

0/2

9 Requirement definition

State Committed

17 Event not raised correctly

State Done

12 Development phase 1

State Done

1/2

D D365BCDevOps +

- Overview
- Boards
- Repos
- Pipelines
- Builds
- Releases
- Library
- Task groups
- Deployment groups
- Test Plans
- Artifacts

Project settings <<

... > D365BC App Pipeline

[Tasks](#) [Variables](#) [Triggers](#) [Options](#) [Retention](#) [History](#)[Save & queue](#) [Discard](#)[Summary](#)[Queue](#)

...



Pipeline

Build pipeline

[View YAML](#)

Get sources

D365BCDevOps

master

Agent job 1

Run on agent



Defaulting container version

PowerShell

Login to bcinsider repository

PowerShell

Install NavContainerHelper

PowerShell

Create Build Container

PowerShell

Compile App

PowerShell

Sign App

PowerShell

Publish App

PowerShell

Name *

D365BC App Pipeline

Agent pool * | [Pool information](#) | [Manage](#)

Hosted VS2017



Parameters

This pipeline doesn't have any pipeline parameters. Create them to share the most important settings between tasks and change them in one place.

[Learn more](#)

DEMO

<http://aka.ms/itabcdevops>

Q & A