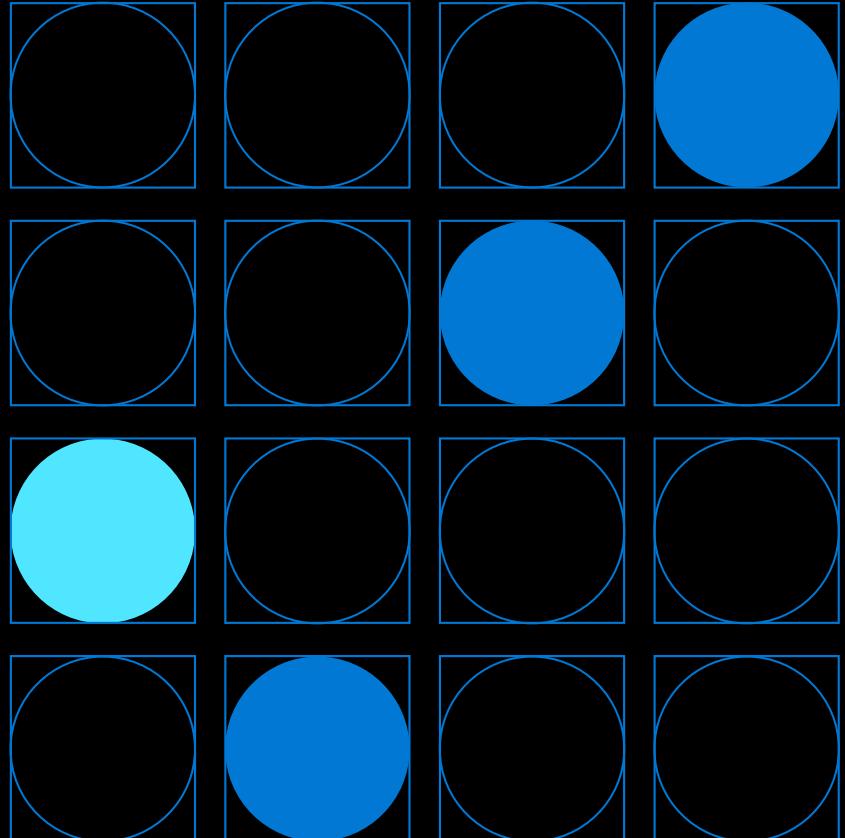


# Microsoft Azure Training

## Day:

### Migrating Applications to the Cloud



# Deploying your Application Faster and Safer

**Abdul Rasheed Feroz Khan**

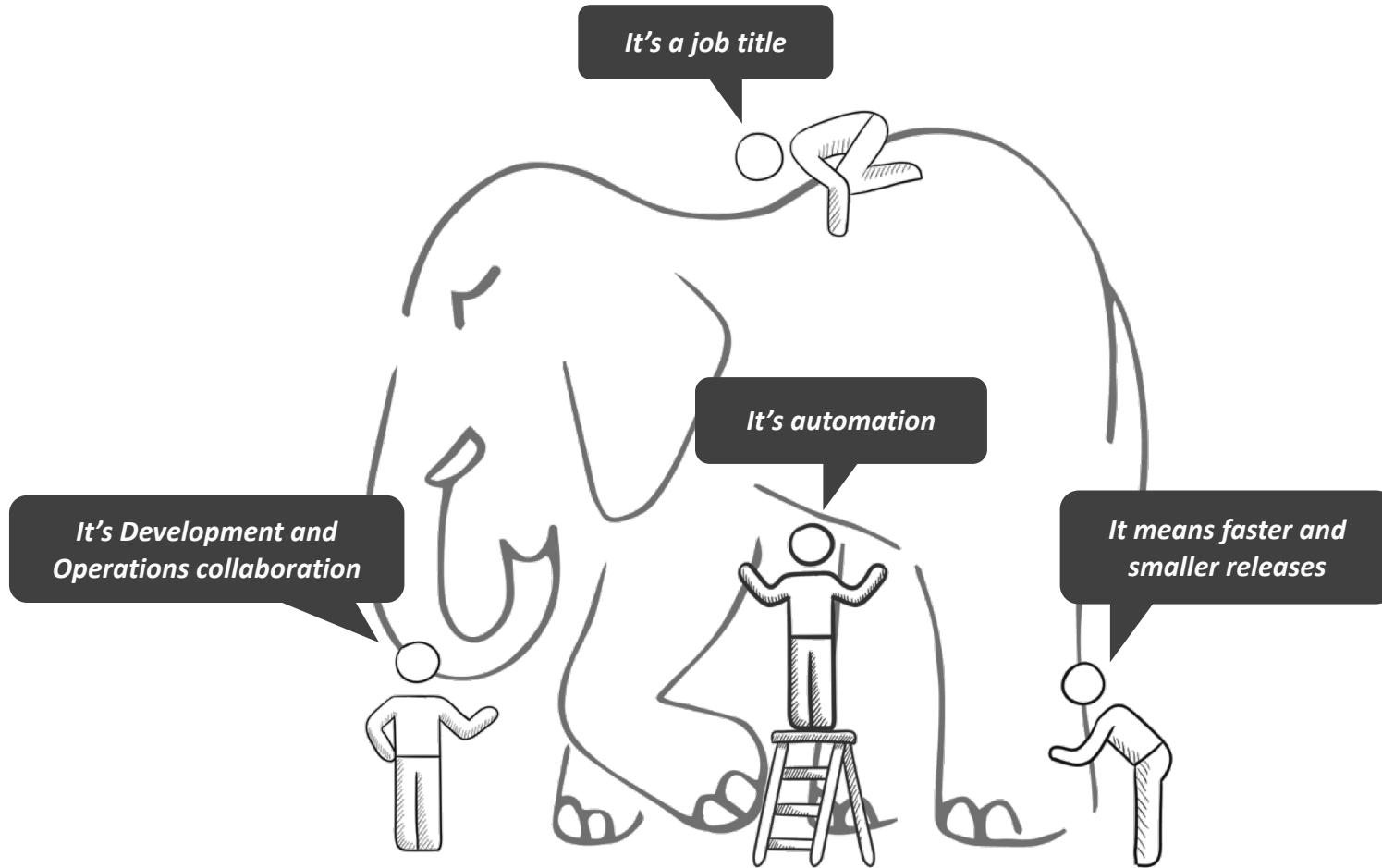
Microsoft MVP - Azure

CTO – CodeSizzler

[www.codesizzler.in](http://www.codesizzler.in)

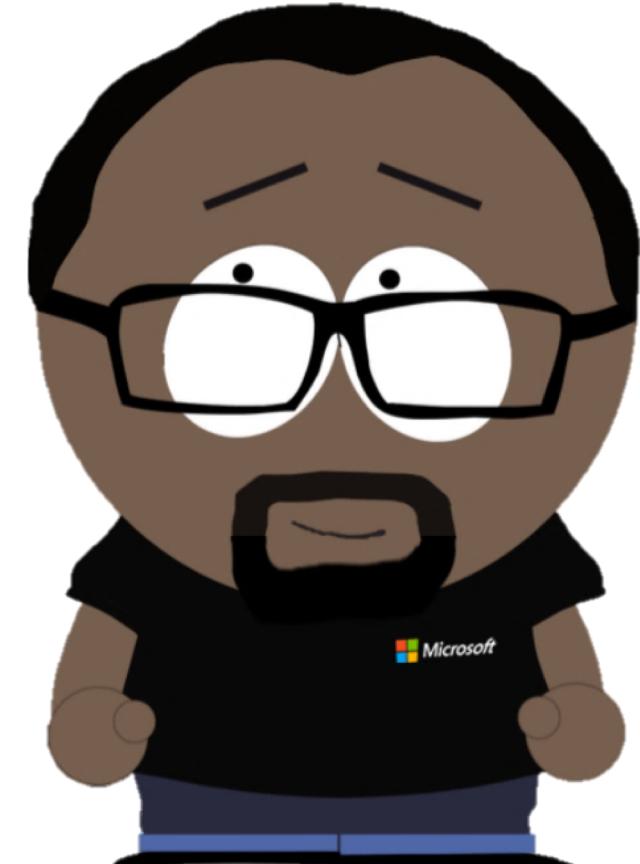
[feroz@codesizzler.info](mailto:feroz@codesizzler.info)

# What is DevOps?



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

- Donovan Brown



# Why is DevOps important?

Your competition is already doing this

Increase velocity

Reduce downtime

Reduce human error

# High Performance DevOps Companies Achieve...

46x Deployment Frequency

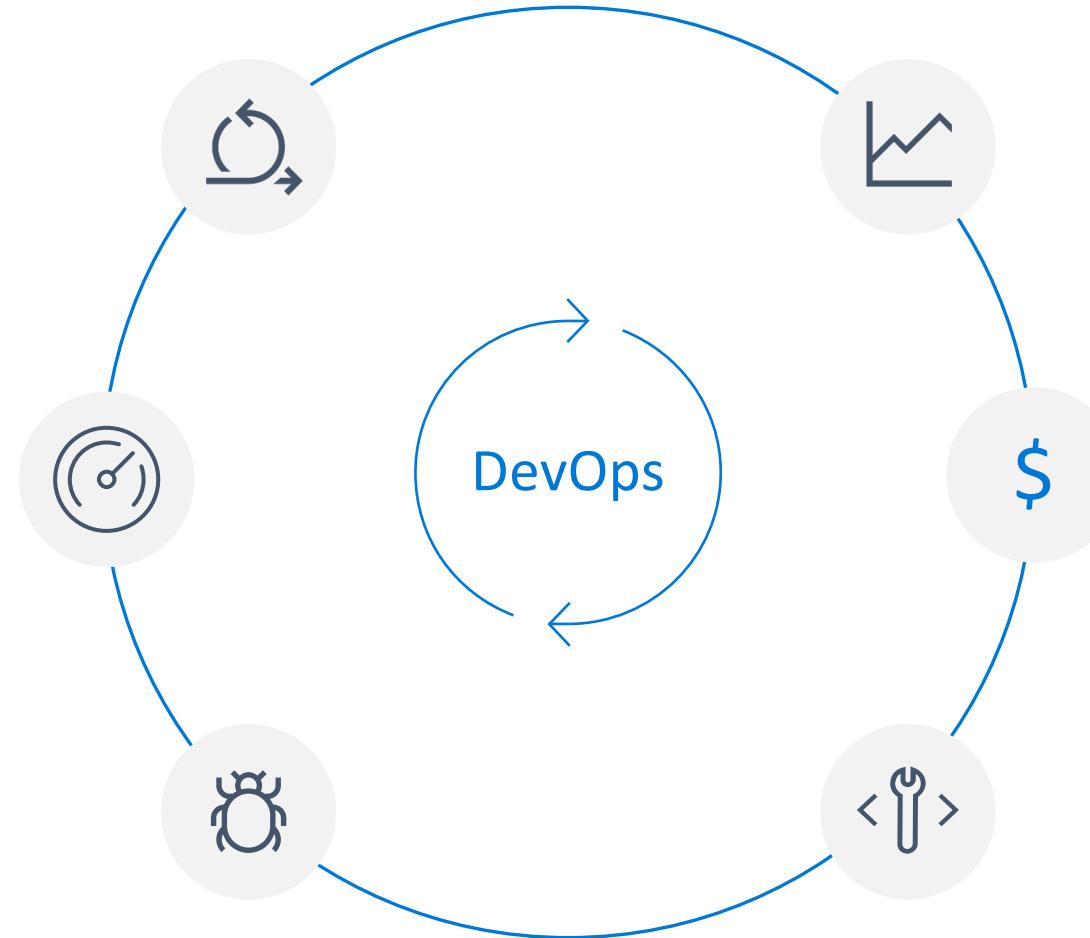
Faster Time to Market

7x Lower Change Failure Rate

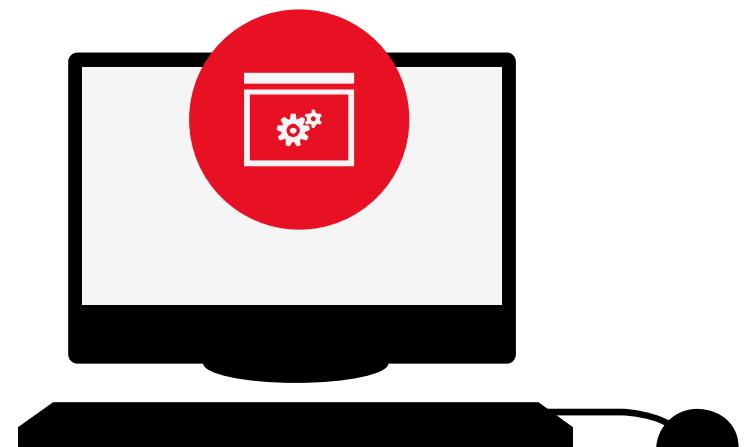
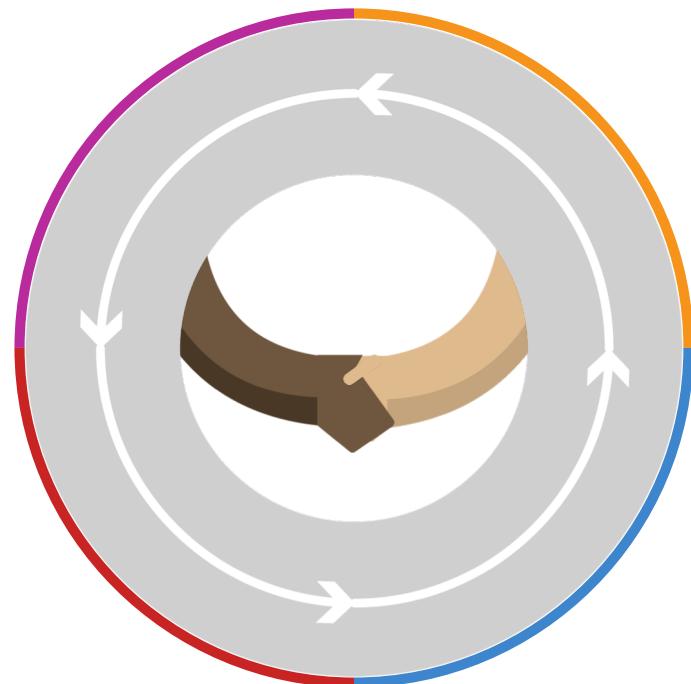
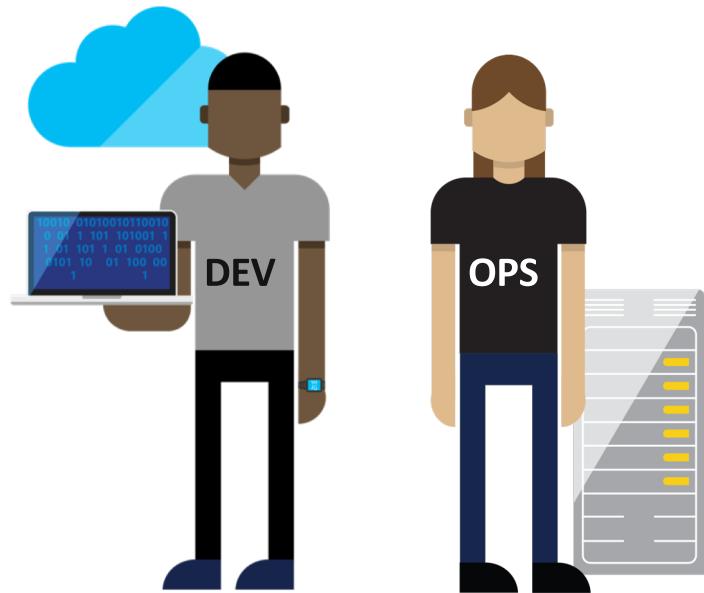
2,555x Faster Lead Time For Changes

Increased Revenue

2,604x Faster Mean Time to Recover



# DevOps: the three stage conversation

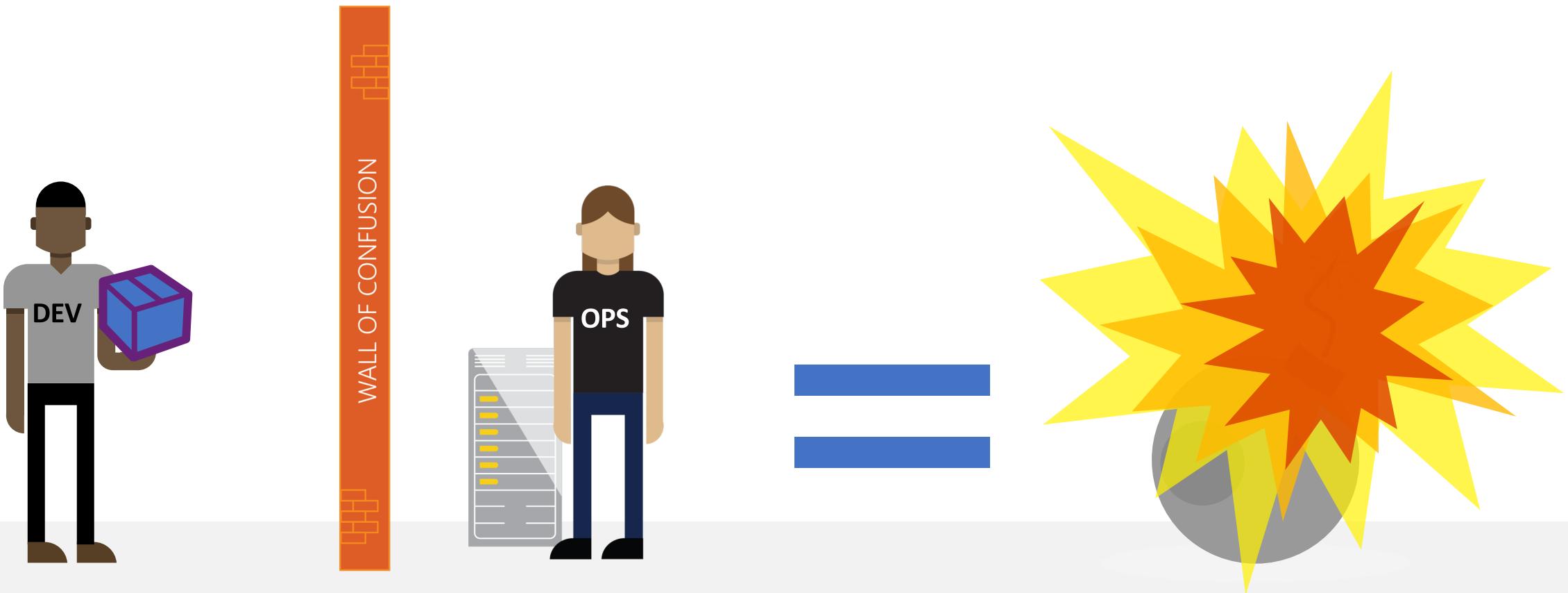


**1** | People

**2** | Process

**3** | Products

# People



# Process

1 Plan

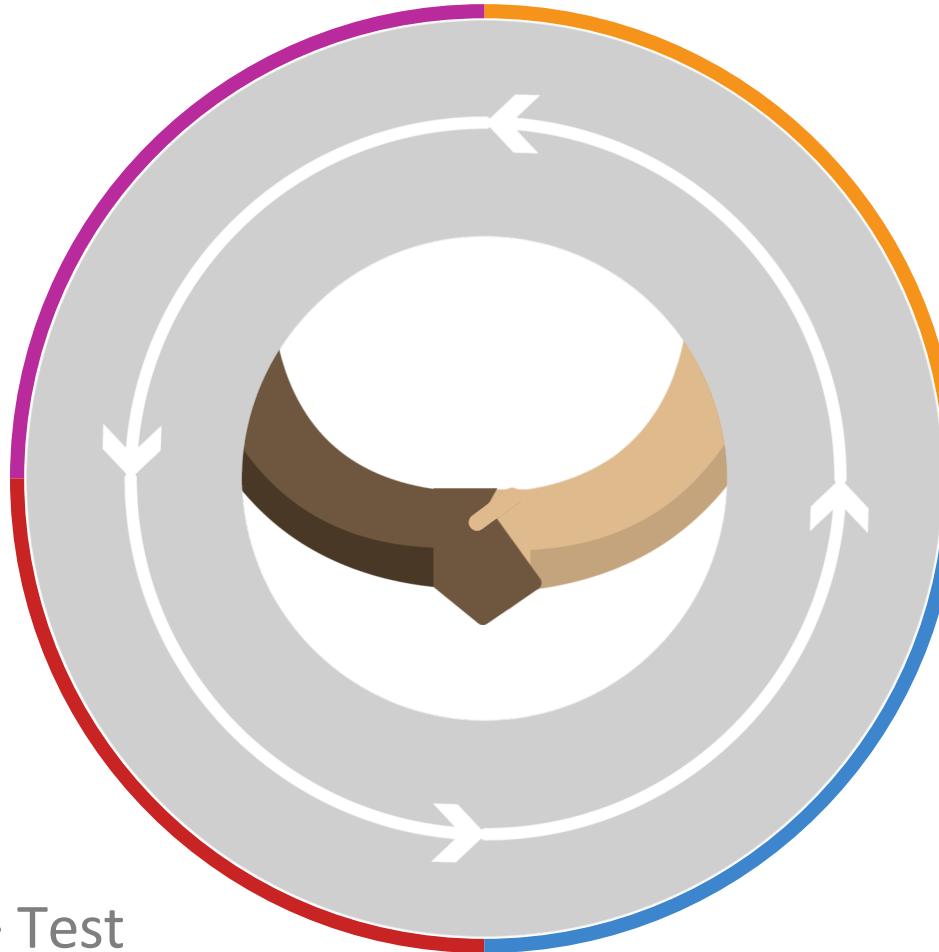
Development

2 Develop + Test

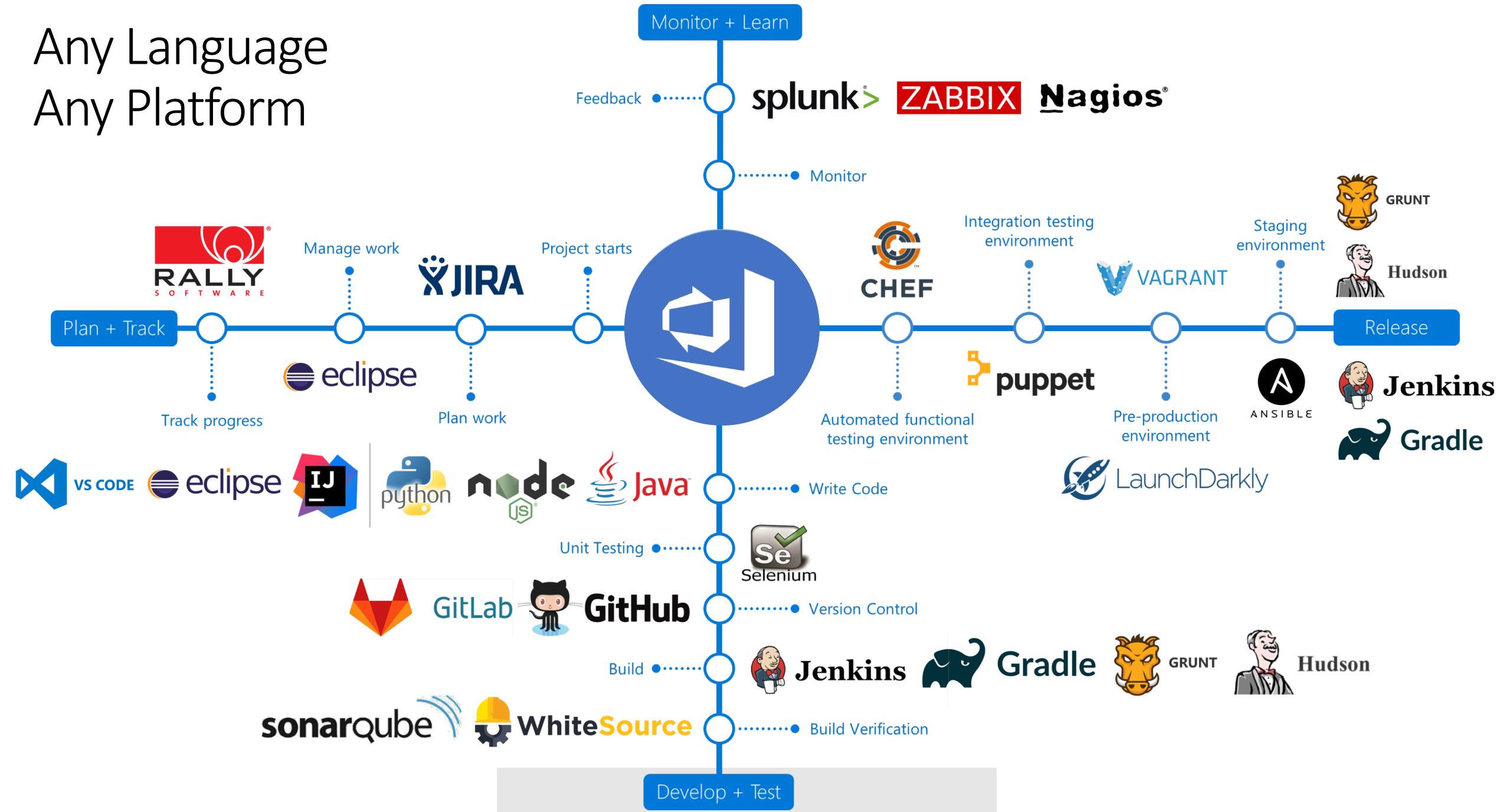
4 Monitor + Learn

Production

3 Release



# Any Language Any Platform



# 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.

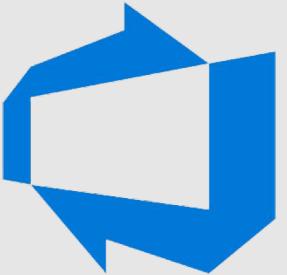


## Azure Artifacts

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 DevOps

+



Azure



# /Docs alert

Azure DevOps documentation has quickstarts and all the reference material you could need

<https://aka.ms/AzureDevOpsDocs>

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## Azure DevOps Documentation

Azure DevOps Services provides development collaboration tools including high-performance pipelines, free private Git repositories, configurable Kanban boards, and extensive automated and cloud-based load testing. For the on-premises platform (TFS), see [Visual Studio Team Foundation Server Documentation](#).

*Visual Studio Team Services is now Azure DevOps Services*

### Start using Azure DevOps



**Build GitHub projects using Azure Pipelines**  
Set up continuous integration and continuous delivery (CI/CD) for your GitHub repository.



**Start using Azure DevOps**  
Sign up and get started using Azure DevOps Services.



**What's new**  
Learn about new features under development and recently released.



**Web portal navigation**  
Learn how to work effectively within the web portal.



**Azure Pipelines**  
Manage CI/CD to deploy your code with high-performance pipelines that work with any language, platform, and cloud.



**Azure Repos**  
Use Git repositories, pull requests, and then integrate with CI/CD to build and deploy your apps.



**Azure Boards**  
Plan and track your work using interactive, highly-customizable backlogs and boards.



**Azure Artifacts**  
Share code with others across your teams or company, and support CI/CD of your apps.



**Azure Test Plans**  
Improve the overall code quality of your apps by using manual, exploratory, or load-based testing services.



**Settings**  
Configure resources and settings for users, teams, projects, and organizations.

**Create pipelines to build and deploy applications to any platform, cloud, or app store.**



# /Docs alert

The DevOps Resource Center is a great starting point for everything DevOps at Microsoft

<https://aka.ms/DevOpsResourceCenter>

The screenshot shows the Microsoft DevOps Resource Center. At the top, there's a navigation bar with links for Microsoft, Azure, DevOps, Services, Pricing, News, Support, Subscriber Access, and a 'Try for free' button. Below the navigation is a breadcrumb trail: Azure DevOps & TFS / DevOps Resource Center. A search bar and user account options ('Share', 'Dark', 'Sign in') are also present.

The main content area features a heading 'DevOps Resource Center' and a sub-headline explaining its purpose: "This center combines our resources on learning DevOps practices, Git version control, Agile methods, how we work with DevOps at Microsoft, and how you can assess your own DevOps progression. Alternatively, you can jump to documentation on [getting started with DevOps on Azure](#), or to dive in, [start your own Azure DevOps project](#). If you're interested in practices, read on."

The page is organized into six sections, each with an illustration and a title:

- Learn DevOps**: DevOps is the union of people, process, and products to enable continuous delivery of value to our end users.
- Learn Git**: Git is a distributed version control system to track changes you make in your code over time.
- Learn Agile**: Agile approaches to software development emphasize incremental delivery, team collaboration, continual planning, and continual learning.
- DevOps at Microsoft**: This center will keep you current on how we adopt DevOps at Microsoft. We've selected the best videos and articles from both public conferences and internal training sessions.
- DevOps Events and Talks**: Take a look at some of our recent conference talks on youtube at the channel DevOps at Microsoft.
- DevOps Self-Assessment**: Get tailored recommendations on how to improve your organization's ability to develop and deliver value to customers, pivot when necessary, and beat competitors to market.

