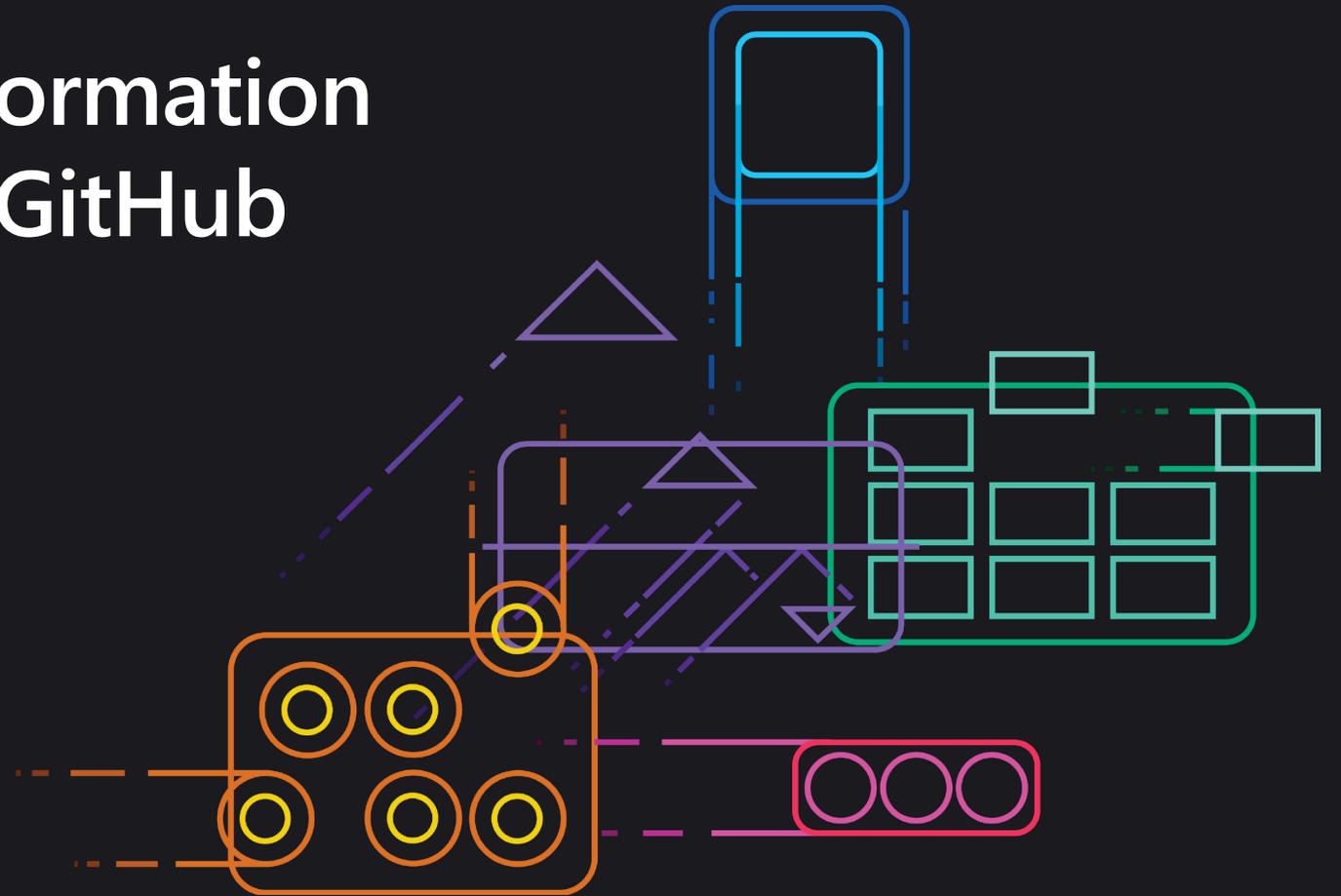


Accelerate Digital Transformation with Azure DevOps and GitHub



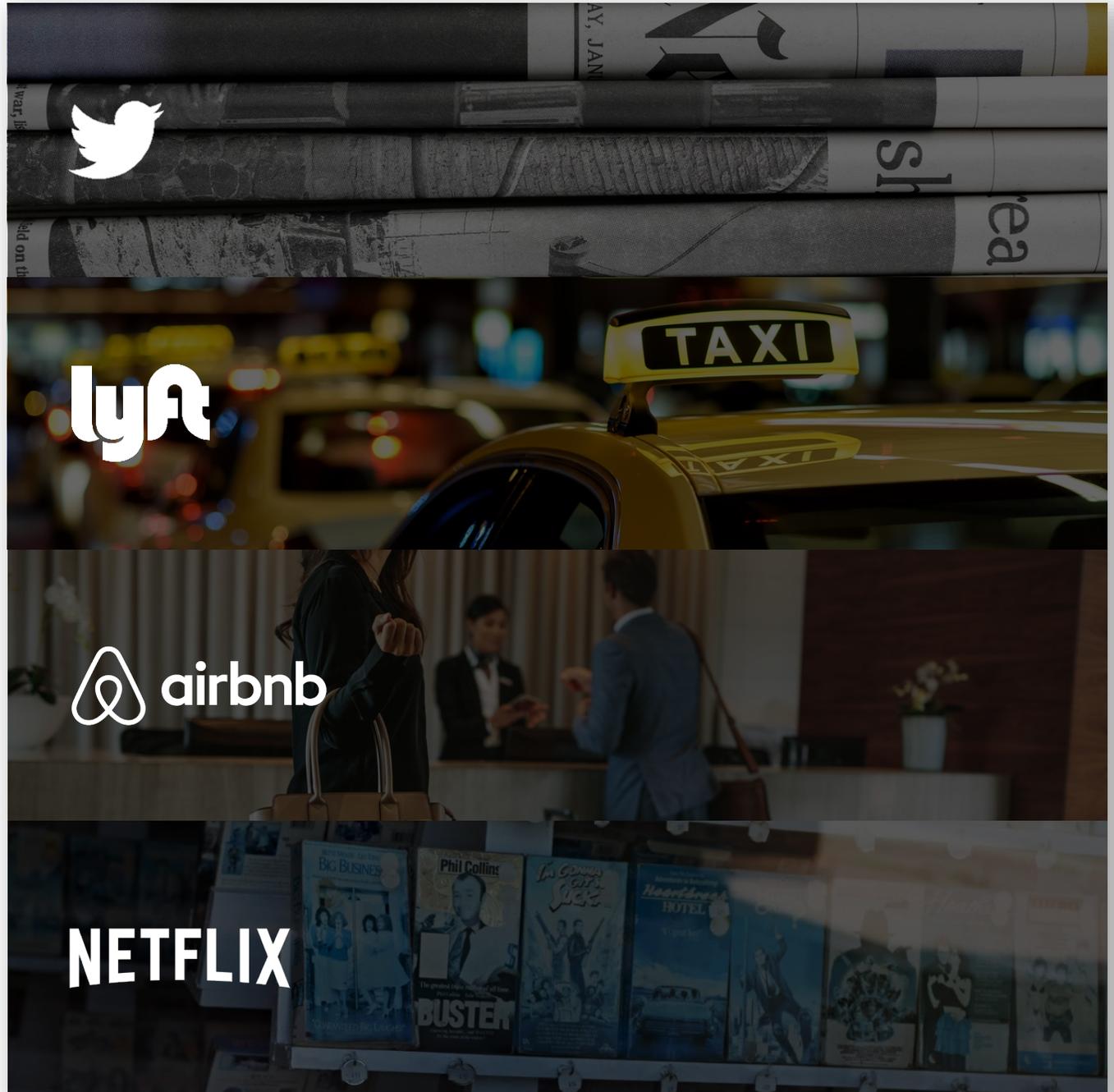
The Challenge

50% of Fortune 500 in 2000 now **replaced** by organizations that **use technology** to deliver customer value **faster, better, and cheaper**

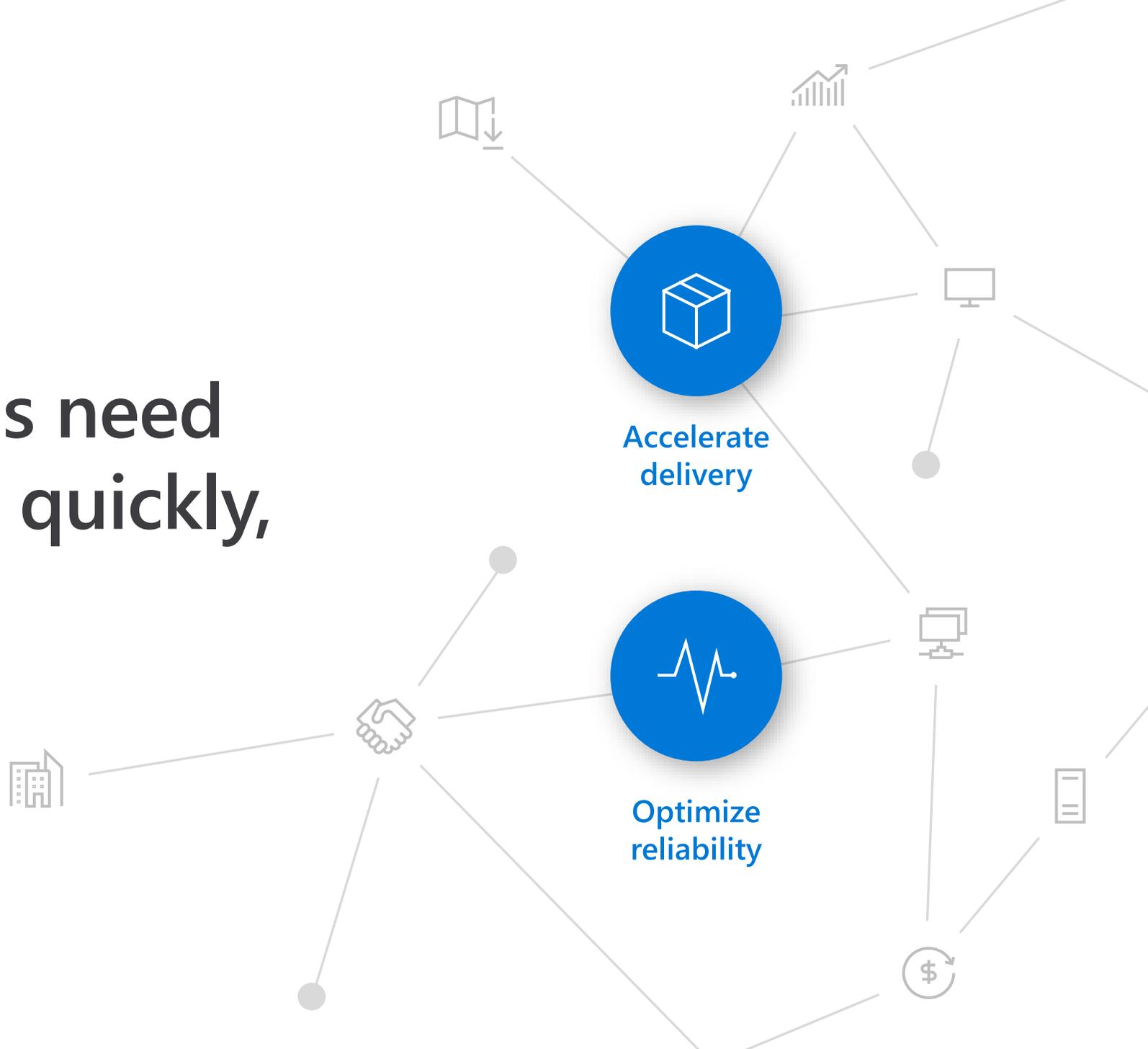
The Fortune 500 of today face the same challenge tomorrow

Innosight

Corporate Longevity: Turbulence Ahead for Large Organizations

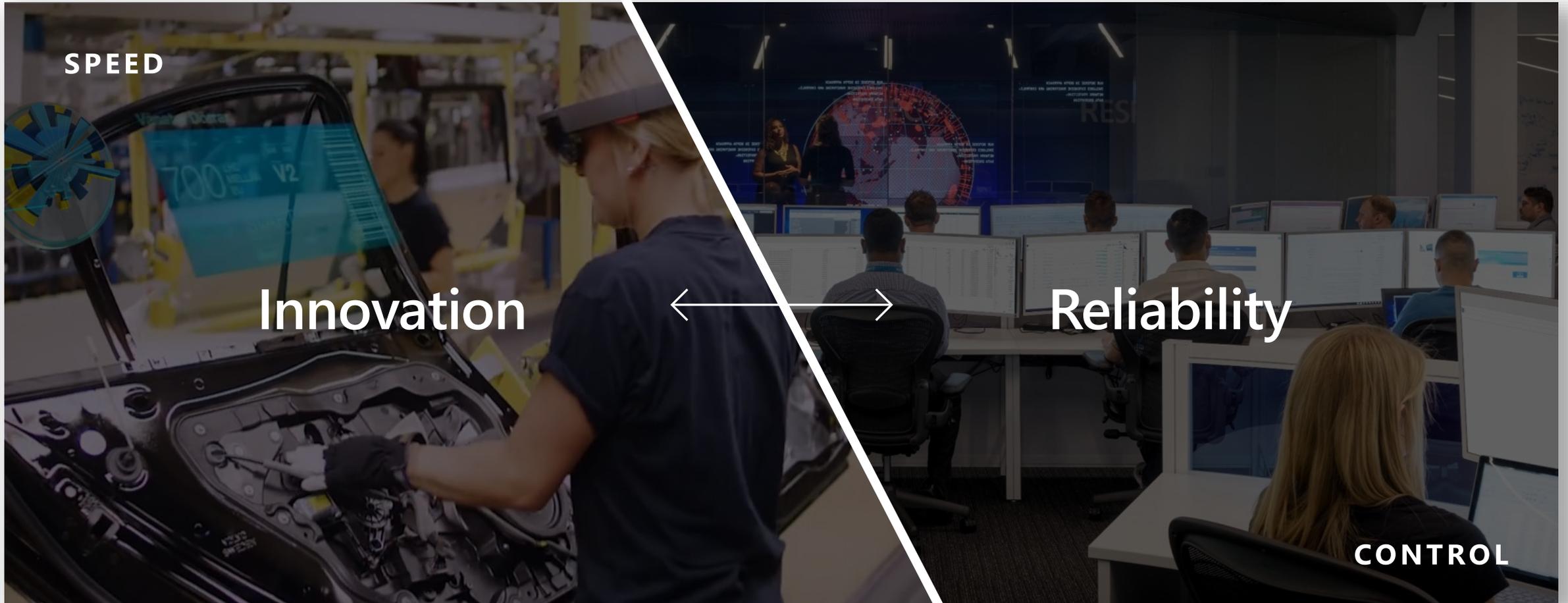


**Product innovations need
to reach customers quickly,
and stay available**

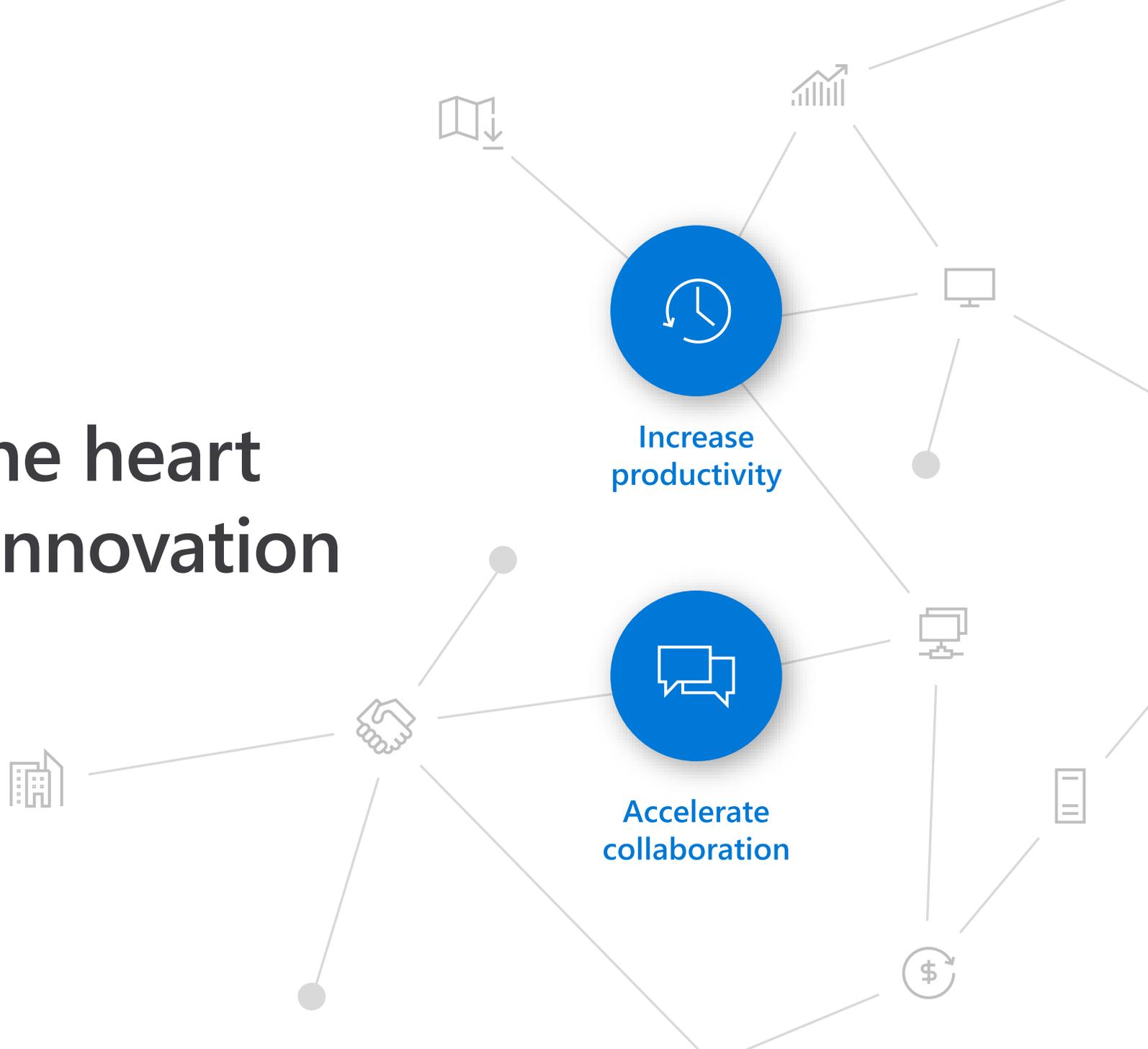


Software delivery paradox

Speed vs. control impedes innovation



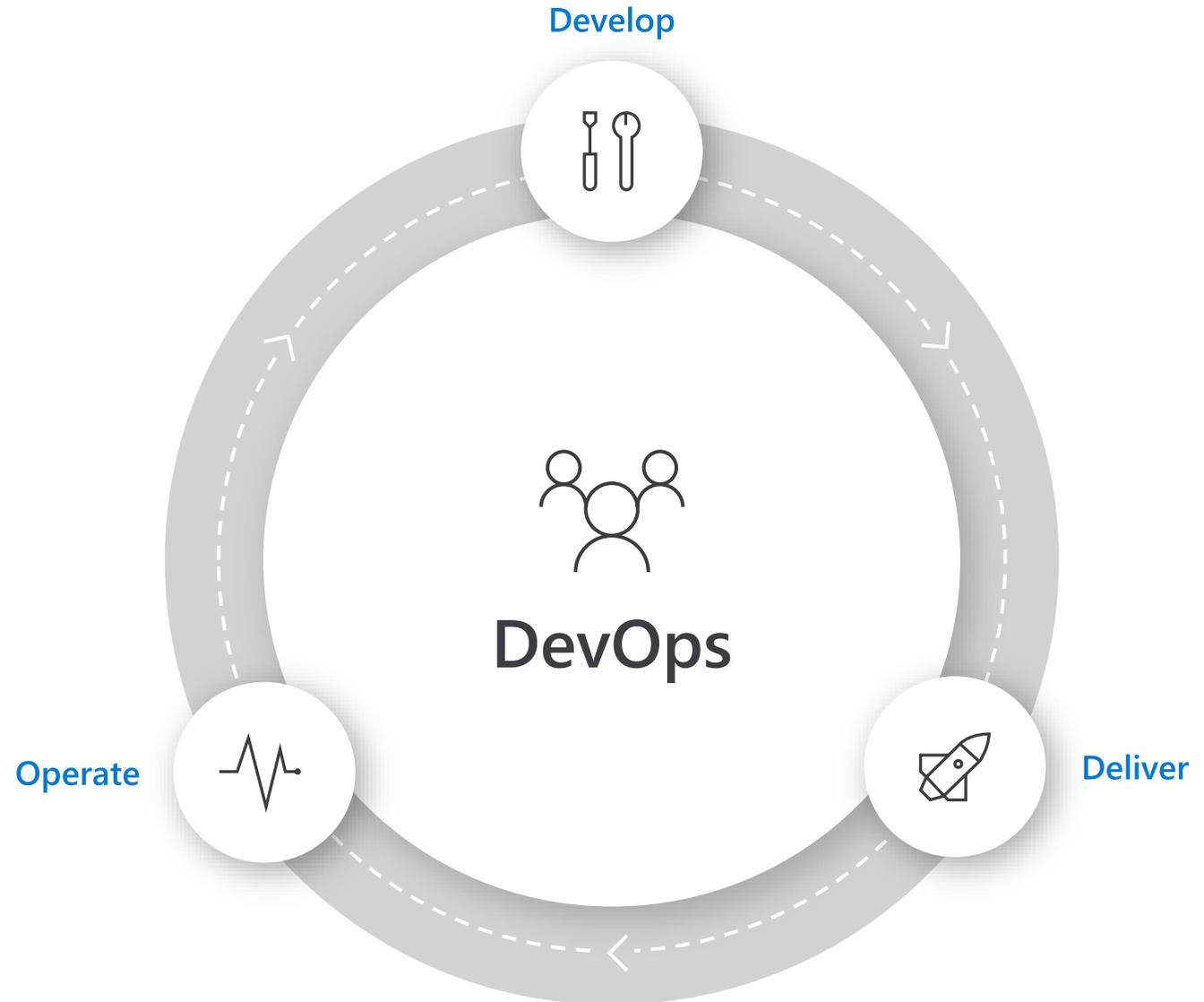
Developers are at the heart of your company's innovation



Accelerating Delivery with DevOps



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

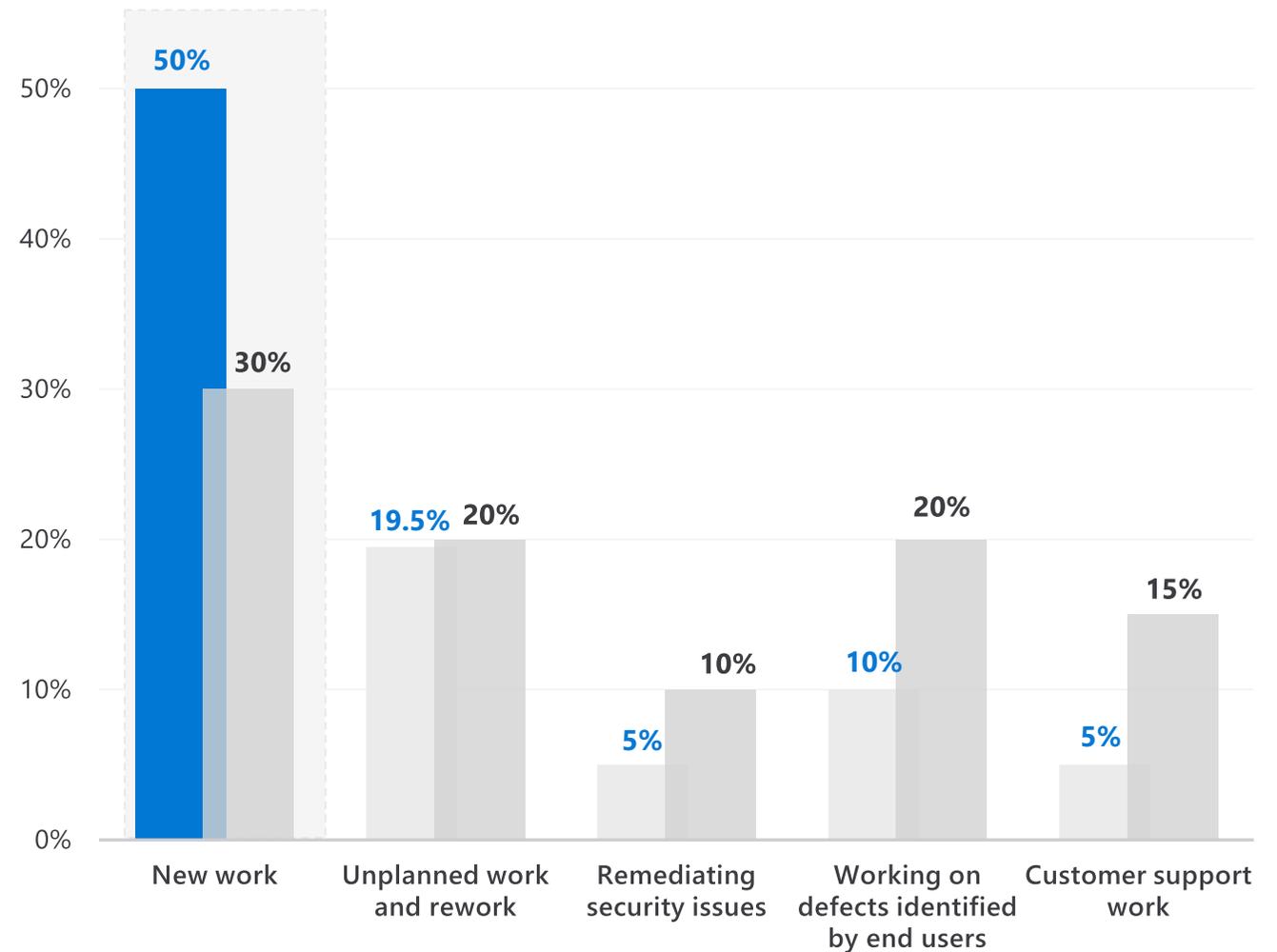


Innovation with oversight

Top performing DevOps companies spend more time innovating and less time “keeping the lights on”.

The result: better products, delivered faster, to happier customers by more engaged teams

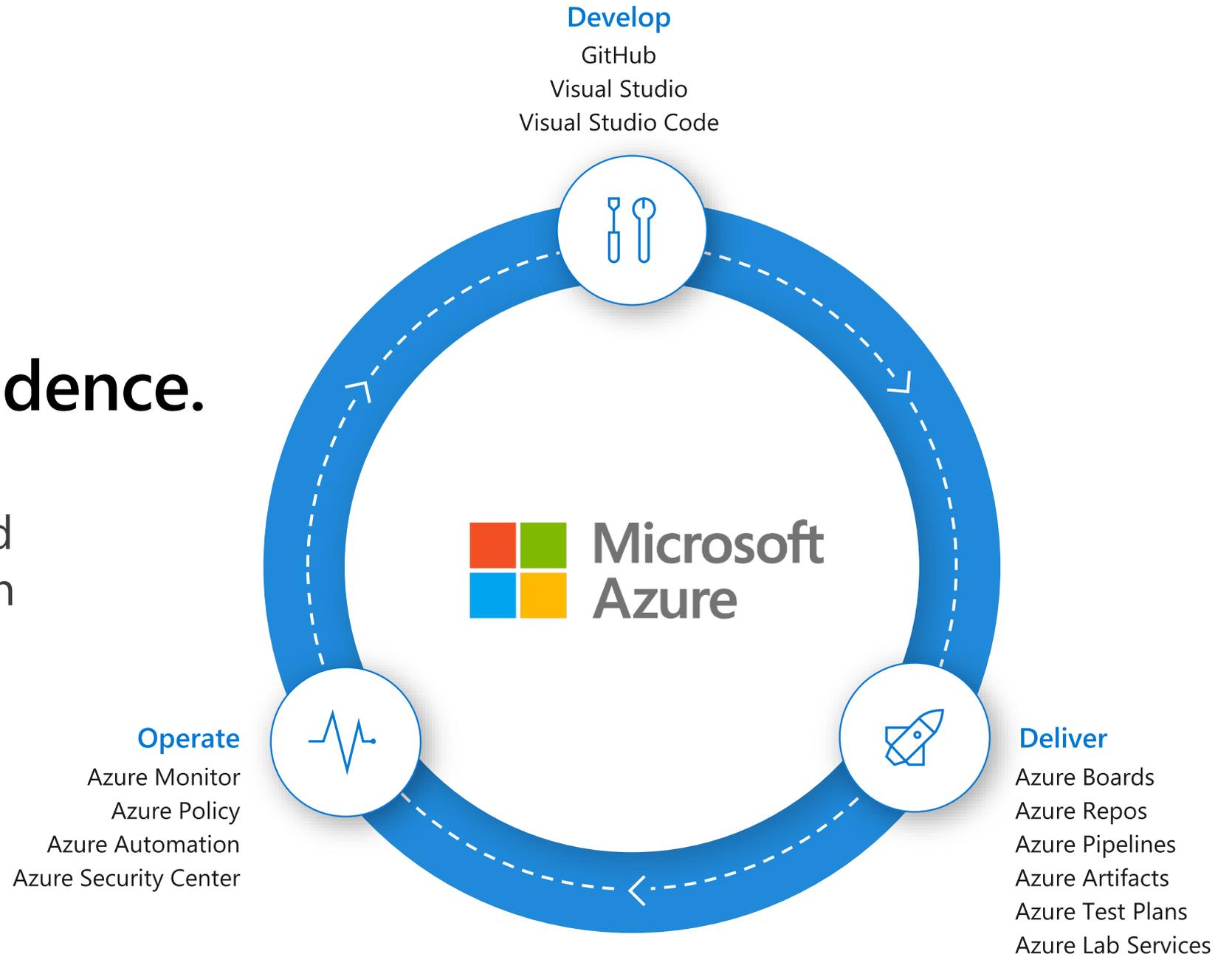
Time spent



Our Solution

Innovate at scale. Deliver with confidence.

Microsoft Azure is the cloud
with DevOps tooling built in





Deliver with Azure DevOps



Azure Boards



Azure Repos



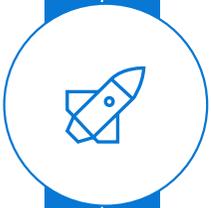
Azure Pipelines



Azure Artifacts



Azure Test Plans



Deliver



Azure Boards



Azure Repos



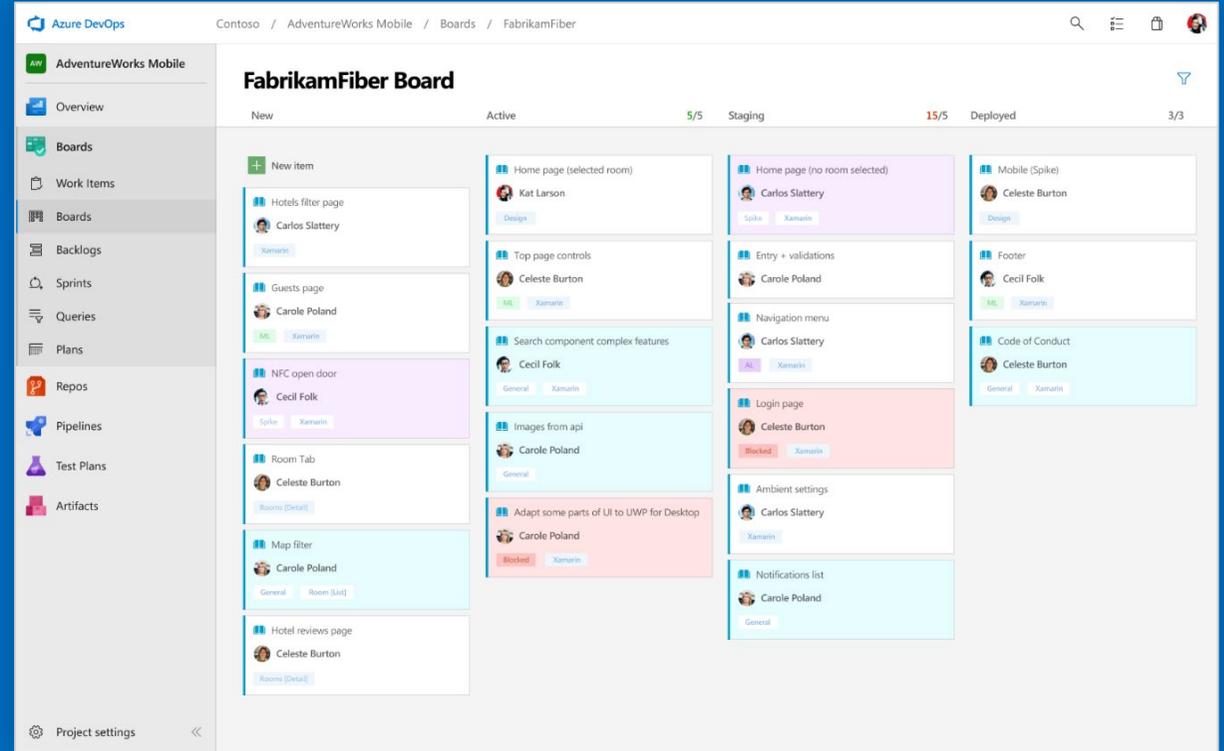
Azure Pipelines



Azure Artifacts



Azure Test Plans

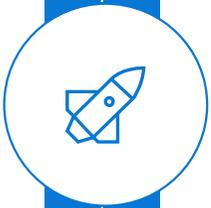


Connecting ideas to releases

Scrum ready to help your teams run sprints, stand-ups, and plan work

Integrated with GitHub commits and pull requests

Insights into project status and health



Deliver



Azure Boards



Azure Repos



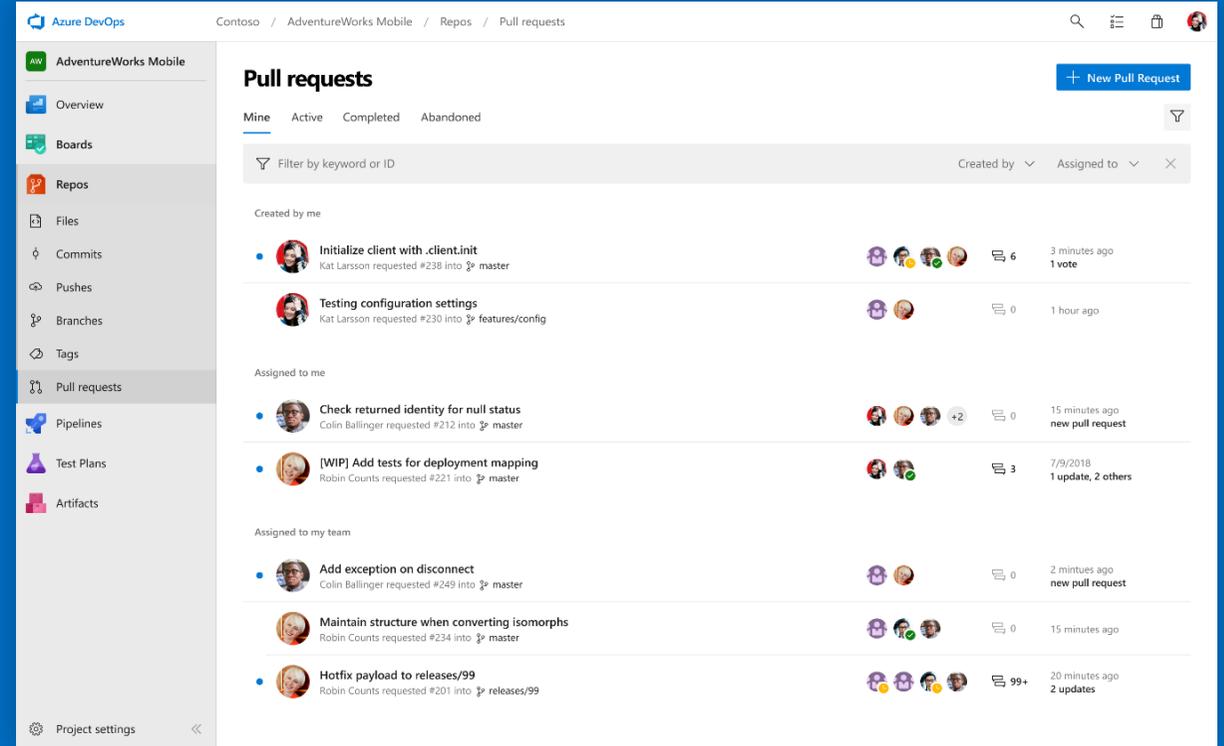
Azure Pipelines



Azure Artifacts



Azure Test Plans

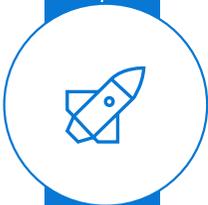


Private Git and TFVC repos for your teams

Code review via branch pull requests

Branch policies and build validation

Easy migration path to / from GitHub



Deliver



Azure Boards



Azure Repos



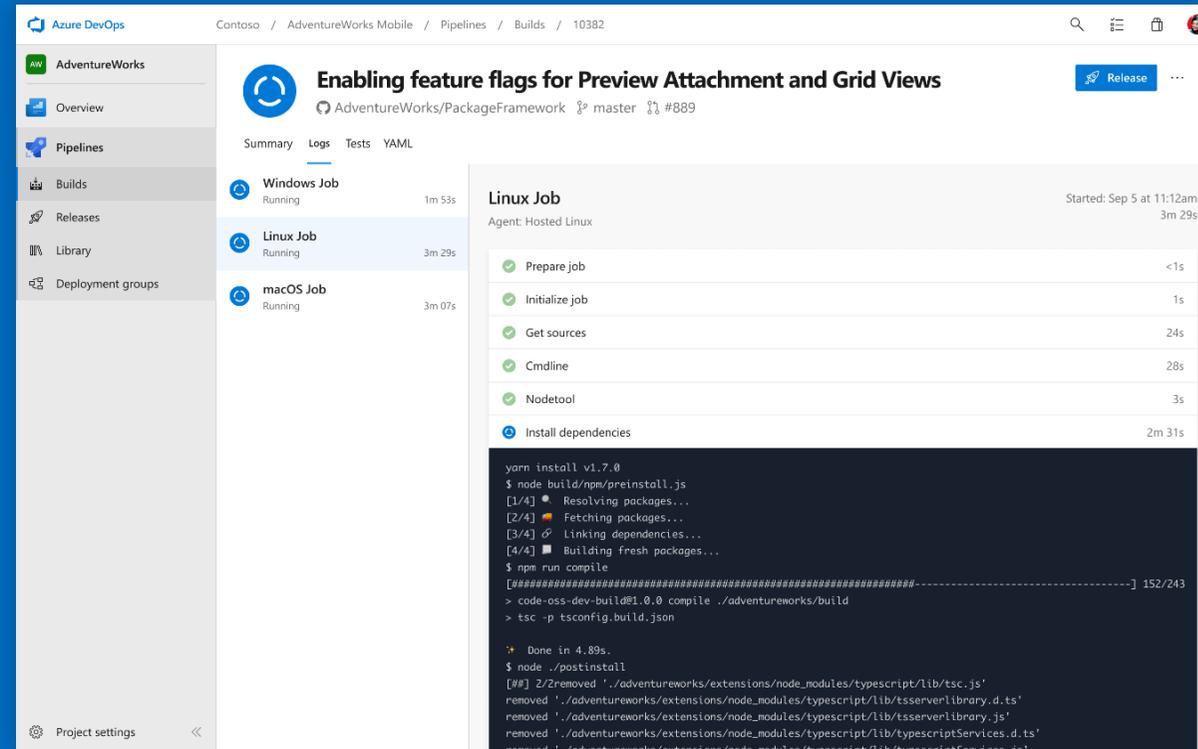
Azure Pipelines



Azure Artifacts



Azure Test Plans



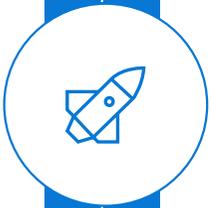
Cloud-hosted pipelines for Linux, macOS and Windows

Any language, any platform, any cloud

Native support for containers and Kubernetes

Best-in-class for open source





Deliver



Azure Boards



Azure Repos



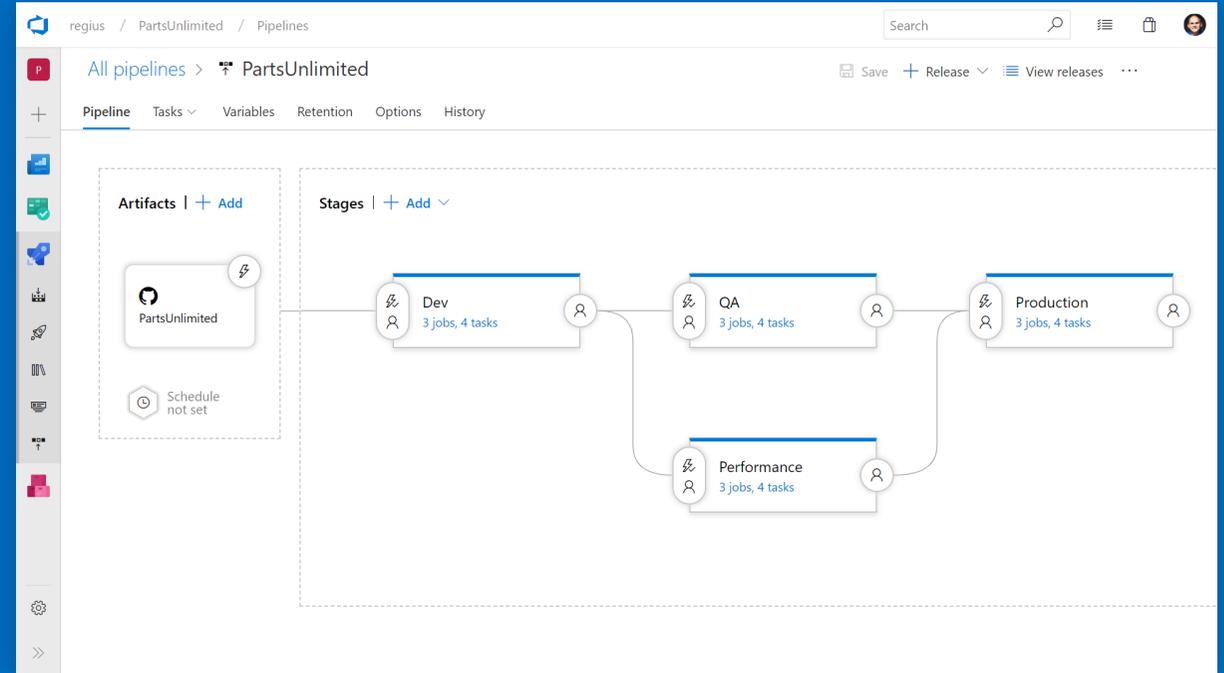
Azure Pipelines



Azure Artifacts



Azure Test Plans

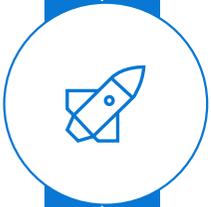


Deploy to on-premises, ANY cloud or a hybrid of cloud and on-prem

Staged environment releases

Pre and post deployment approvals with gates to automate approval based on conditions





Deliver



Azure Boards



Azure Repos



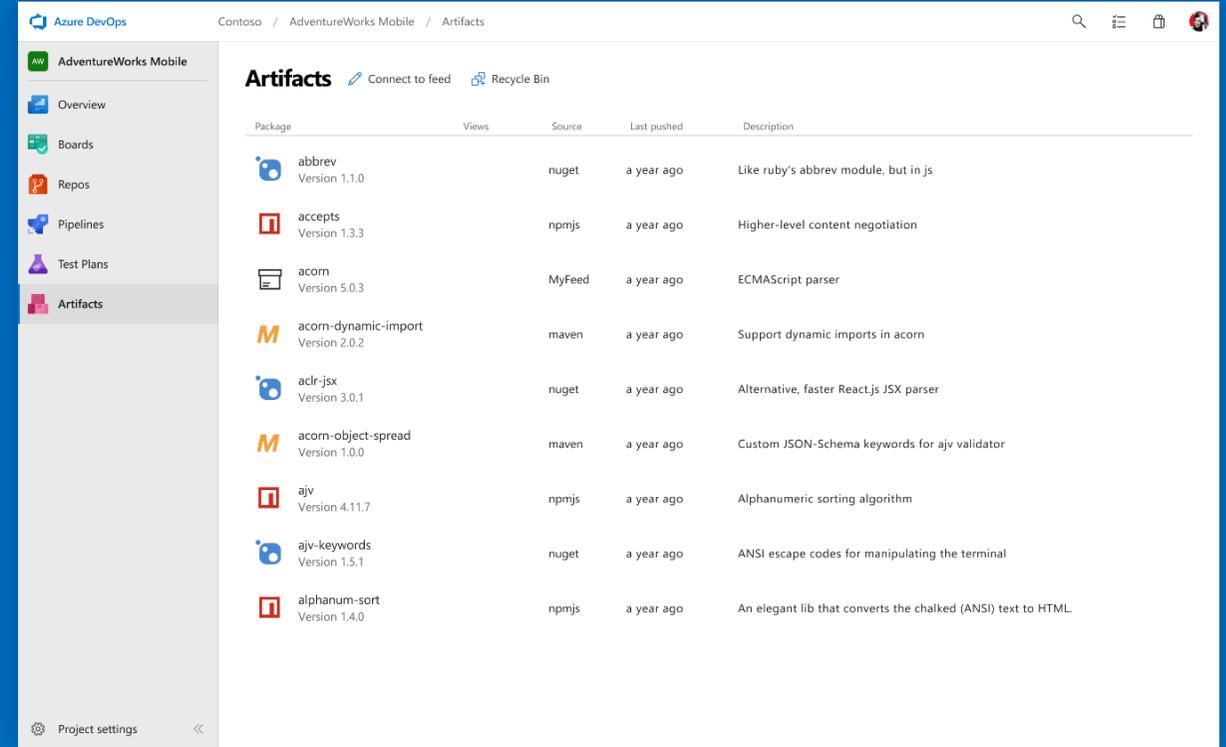
Azure Pipelines



Azure Artifacts



Azure Test Plans

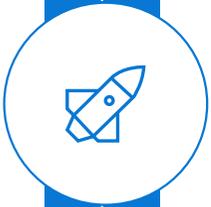


Share code efficiently

Keep your Maven, npm, NuGet and Python packages and more in the same place

Aggregate from public registries and internal teams

Publish and track from any pipeline



Deliver



Azure Boards



Azure Repos



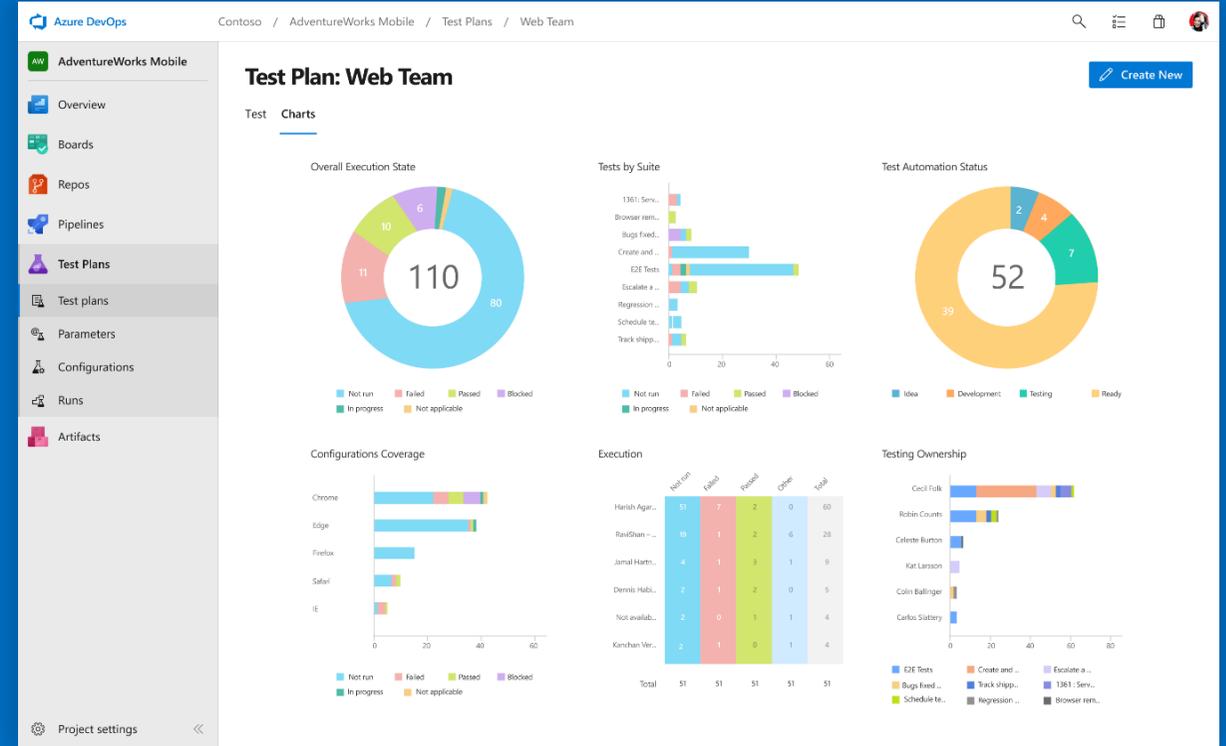
Azure Pipelines



Azure Artifacts



Azure Test Plans



Run tests and log defects from your browser
Track and assess quality throughout your lifecycle
Capture rich data for reproducibility
Create tests directly from exploratory sessions



Deliver with



Azure Boards



Azure Repos



Azure Pipelines



Azure Artifacts



Azure Test Plans

GitHub

GitHub brings the **premier** social coding workflows to your team, breaking down silos and enabling Inner Source through:

- Expertise sharing
- Cross-team collaboration
- Improved code reuse
- Increased velocity





The #1 developer community on the planet

Most contributions **1.1B in 2018**

Most developers **33M**

Most Repos **100M**

Most secure **5M vulnerability alerts in 2018**

Home to the most important and popular open source projects on the planet

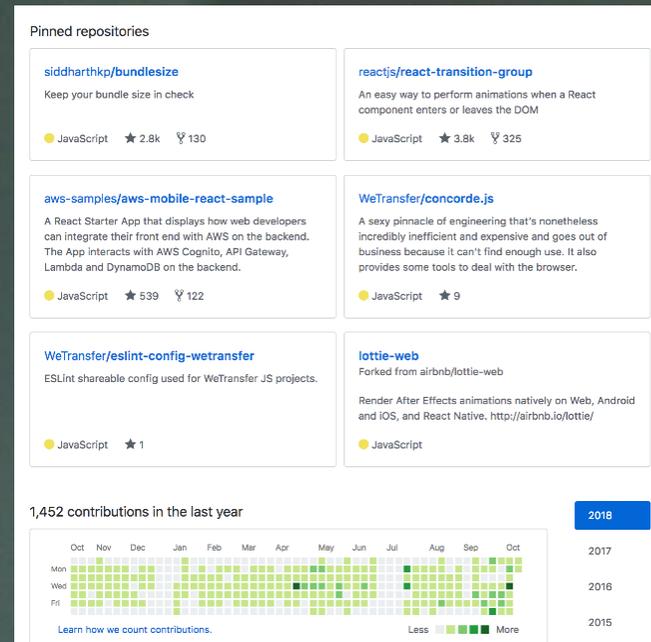


Winning the war for talent

The world's leading companies use and contribute to open source software. It is also how they attract and retain talent

Developers want to:

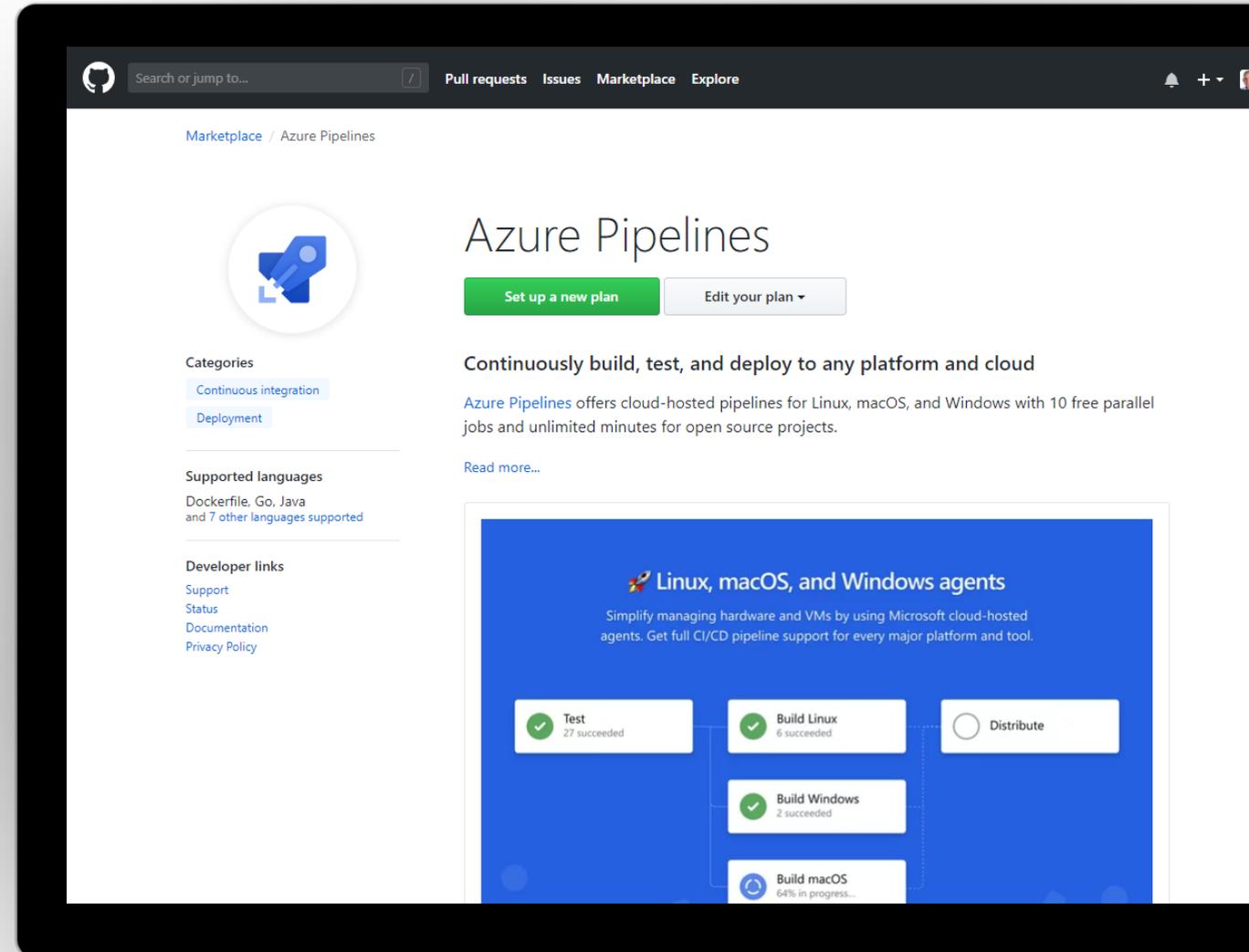
- Solve interesting problems
- Collaborate with other developers
- Grow their skills
- Use tools they love





Azure DevOps Integrated with GitHub

Rich integration with Azure Pipelines
and Azure Boards





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

Reactive operations



DEVELOP



DELIVER



OPERATE

 Governance

 Security

 Monitoring

 Automation

 Resiliency

Moving to proactive operations with Azure

“Shifting left”



DEVELOP



DELIVER



OPERATE

 Resiliency

 Monitoring

 Security

 Governance

 Automation

Deploy continuously and compliantly

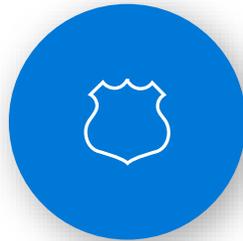
Enterprise-grade security, monitoring, and management services built-in



Governance

Proactively apply policies and enable compliant releases

Azure
Policy & Blueprints



Security

Industry leading Security with Advanced Threat Protection

Azure
Security Center



Resiliency

High availability and protection for VMs, apps and data

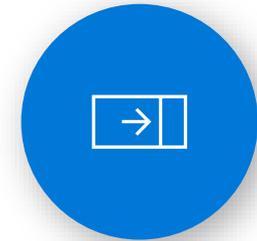
Azure
Backup & Site Recovery



Monitoring

Deep operational insights with rich intelligence

Azure
Monitor



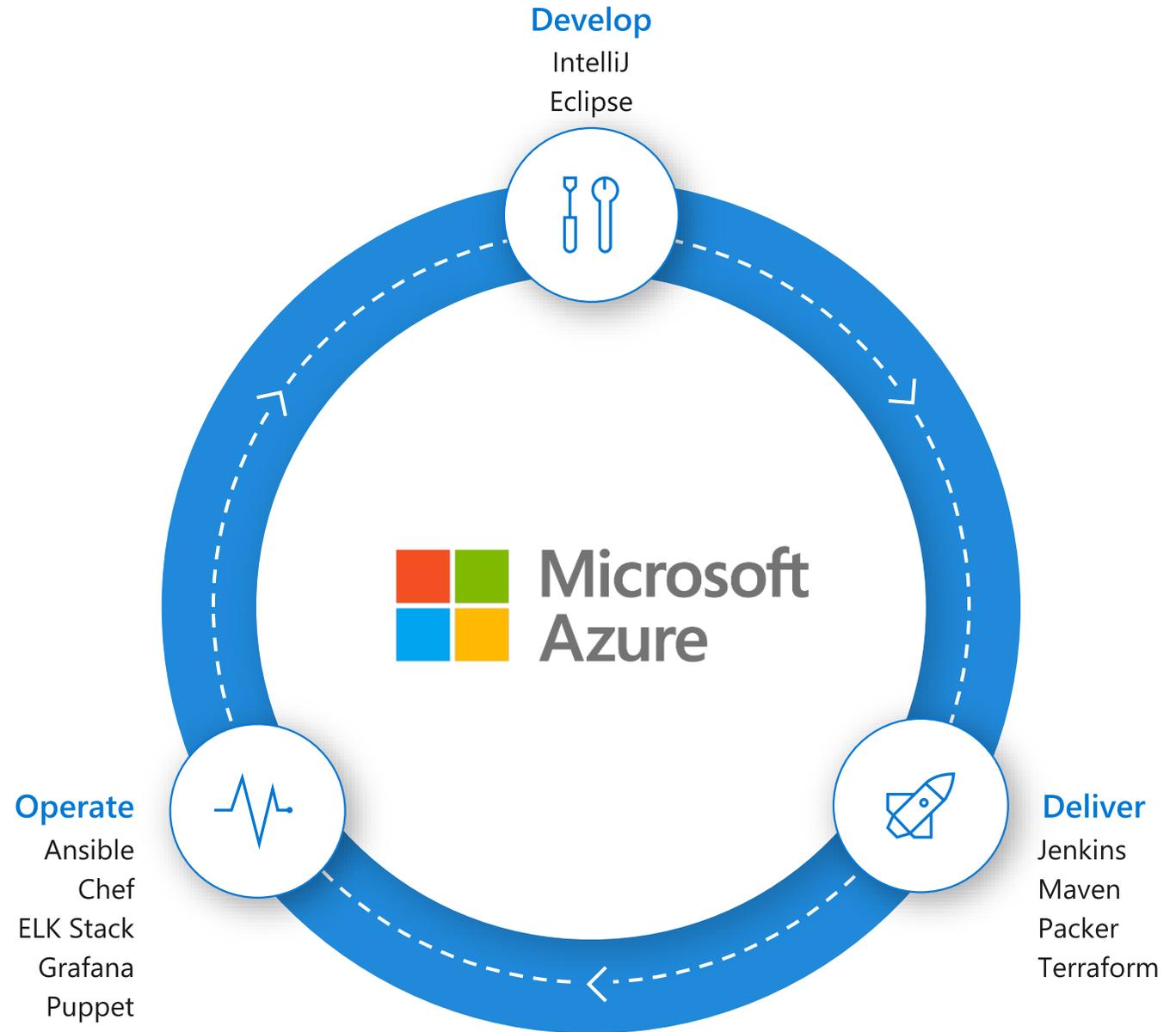
Automate

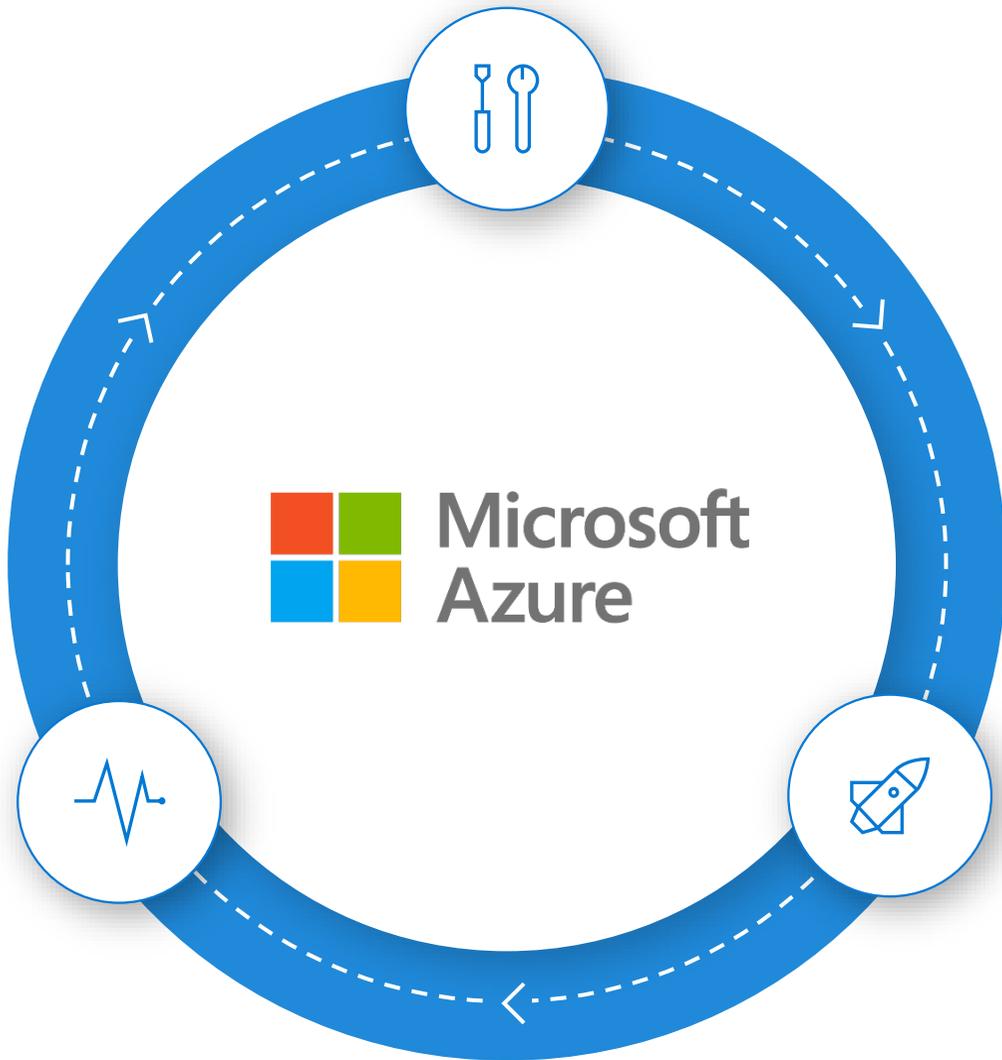
Powerful scripting, configuration and update management

Azure
Automation

Use the tools you know and love

Azure and GitHub are fully integrated with your existing tools and workflow





Core Infrastructure

- Compute
- Security
- Storage
- Management
- Networking

Advanced Workloads

- Web + Mobile
- Internet of Things
- Microservices
- Containers
- Serverless
- Identity
- Data + Analytics
- Artificial Intelligence
- Cognitive Services
- High Performance Computing

Azure Stack + Hybrid

The cloud with DevOps tools built in

Azure DevOps



- Continued heavy investment in Azure DevOps
- Best in class CI/CD solution across the industry
- Best & most loved solution for managing development teams
- Tight integrations with GitHub
- Provide enterprise scalable package management

[→ https://azure.com/devops](https://azure.com/devops)

Azure DevOps supports small teams and the largest enterprises



“ Instead of telling people to wait for 6 months for a new feature, we can give it to them in a few weeks...Our 2800 worldwide developers can use the same backlog, user stories and tests whether they're on Windows or Linux... building for iOS or Android. ”



“ Microsoft made it really easy to break outside the silos... and tie the DevOps process into the fulfilment of business process. Without the tools that we have today, we would not be successful. ”



“ Speed is gained in moving to the PaaS offering of Azure DevOps. PaaS provides regularly released features and a future-proof capability, eliminating the need for Accenture to maintain infrastructure and go through upgrade cycles. ”



“ Branches sync 500 percent faster. Builds are 400 percent faster, with the typically six-hour process reduced to 90 minutes. We (now have) a highly streamlined process that operates with a few button clicks—and one-button deployment. ”

DevOps at Microsoft

Azure DevOps is the toolchain of choice for Microsoft engineering with over 100,000 internal users

[→ https://aka.ms/DevOpsAtMicrosoft](https://aka.ms/DevOpsAtMicrosoft)

442k

Pull Requests per month

4.6m

Builds per month

28k

Work items created per day

2.4m

Private Git commits per month

3.5k

Open Source repos

12k

Employees contributing to open source

82,000

Deployments per day

Browser tabs: TFS - Prod Config Chan

Address bar: https://dev.azure.com/mseng/VSONline/_releaseProgress?releaseId=5536521&_a=release-pipeline-progress

Azure DevOps navigation: mseng / VSONline / Pipelines

Page title: TFS - Prod Config Change > TFS - Prod Config Change 7179

Actions: Pipeline, Variables, History, Deploy, Cancel, Refresh, Release (old view), Edit release

Release

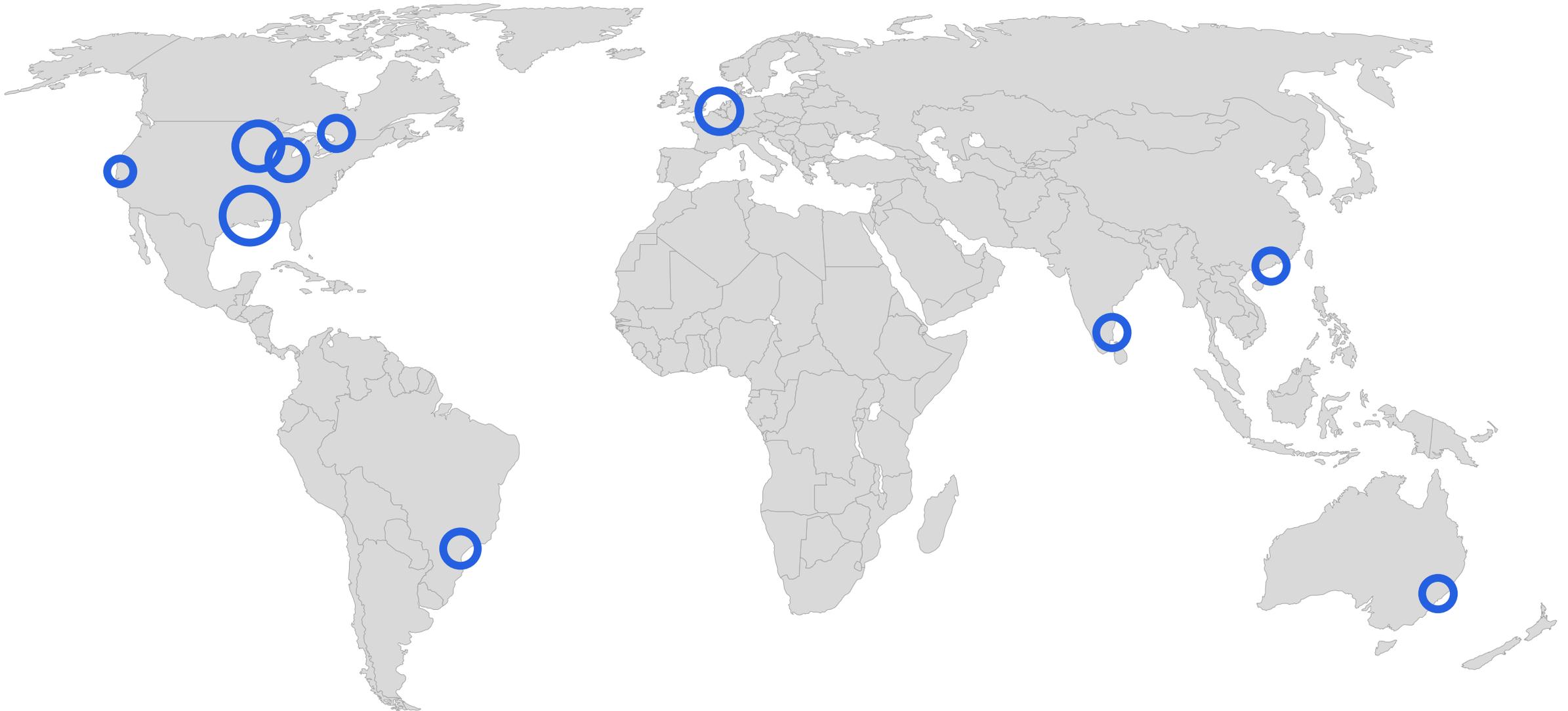
- Manually triggered
- by Shady Ibraheem
- 30/08/2018 21:01
- Artifacts: VSO.Release.CI, VSO.Release.CI_M139_20180, 830.30, releases/M139

Stages

- Ring 0: Succeeded, on 30/08/2018 21:24
- Ring 1: Succeeded, on 30/08/2018 21:44
- Ring 2: Pending intervention, Job 1/2, Waiting on Pause Between Rings, 1/1 tasks, 08:49, Resume
- Ring 5: Not deployed

Global Reach

Azure DevOps has more global regions than any other cloud provider



Migrating from On-Prem to the Cloud

Move from Team Foundation Server to Azure DevOps and bring your data along

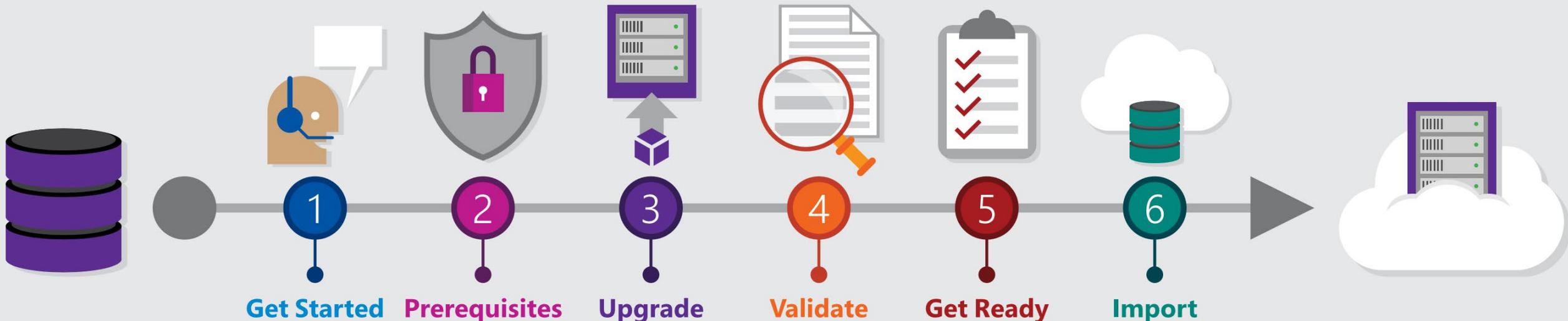
Benefits of Cloud Hosted Azure DevOps Services

- Global availability
- Hosted and maintained by Microsoft with 99.9% uptime guarantee and 24x7 support
- Immediate access to latest features
- Simplified deployment to Azure

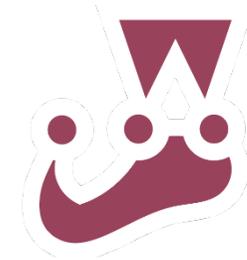
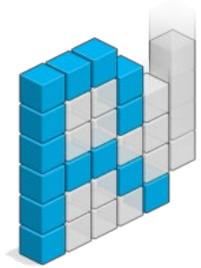
Azure DevOps Import Service

- Fully supported high fidelity migration path
- Trusted by many large enterprises
- Now faster and easier to use

 <https://aka.ms/tfsimport>



Open Source Adoption



Azure DevOps Futures

First Party is
Third Party



NextGen Agile

Continuous
Delivery



Containers



Secure &
Compliant DevOps



Actionable
Insights

