



The application journey to the cloud – different approaches using Azure

The journey to the cloud can take various routes



IaaS/VM/Compute

Own your home



Platform as a Service

Bed and breakfast



Serverless

Hotel

The journey to the cloud

Infrastructure



“What your application runs on”

Data



“What your application works with”

Code



“What your application does”



Migrate • Innovate



Unified Management • Security • Governance • Tools • DevOps



A turn-key platform for Application Modernization



Orchestration
(Kubernetes)



Microservices



Web Apps



Event-driven
Functions



Modernizing with managed services



Challenges

Infrastructure management slows down business processes

Inefficient resource management

Lock-in to a limited (legacy) stack. Lack of portability across clouds

Deployment not automated, slow, wasted time due to manual tasks

Production infrastructure can not be replicated on developer machines



Azure Benefits

Managed services let you focus on apps, not admin and speed up deployments

Smaller instances increase packing density and improve resource utilization

Managed services support all stacks. Containers run on any cloud

Fast and agile app deployment with built-in DevOps and instant startup

Environments are consistent across development, test and production

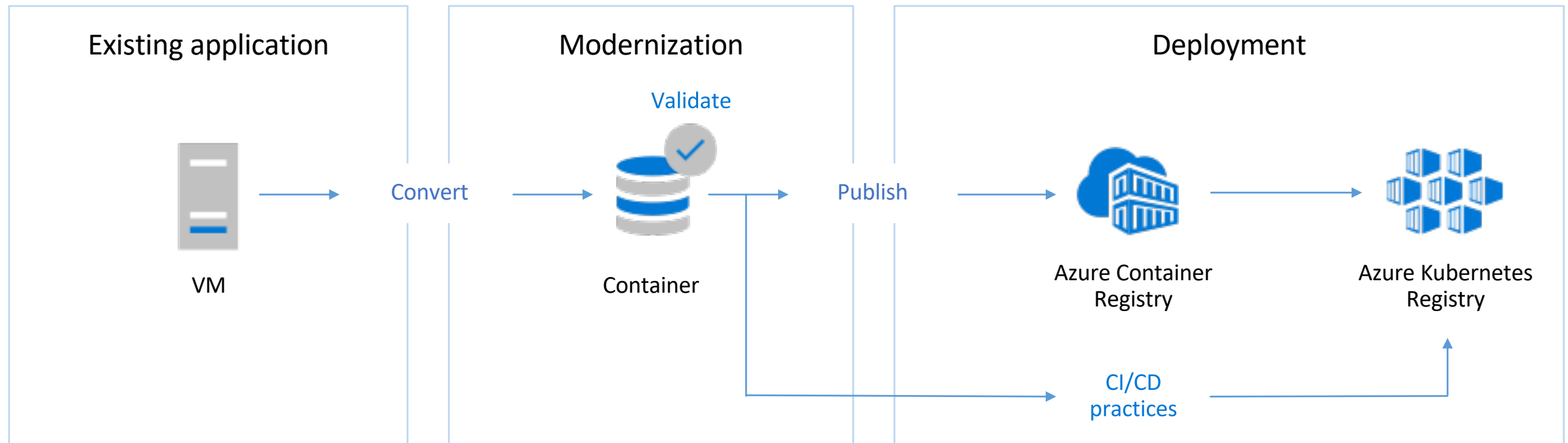
Containers

A modern office lobby with a checkered floor, large windows, and people walking. A balcony with a glass railing is visible above.

Refactoring with container technology

Faster application deployment with integrated CD/CD tools and orchestration

- Containers support all frameworks and technology stacks across clouds and on-premises
- No OS overhead means improved packing density and more resource efficiency
- Faster application deployment with integrated CD/CD tools and orchestration



Microservices



Rearchitecting with microservices

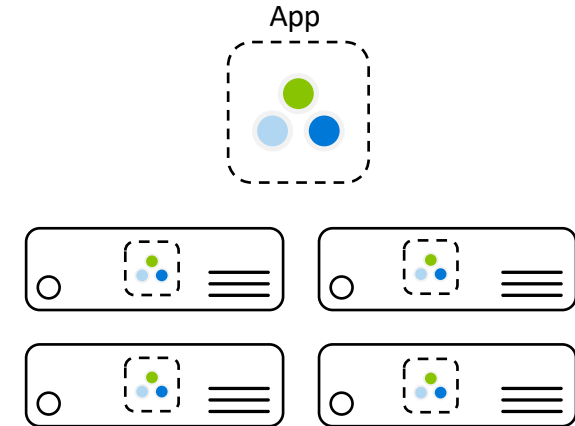
More agile, scalable and resilient applications

Individual services can be upgraded, changed or taken down without impacting the application

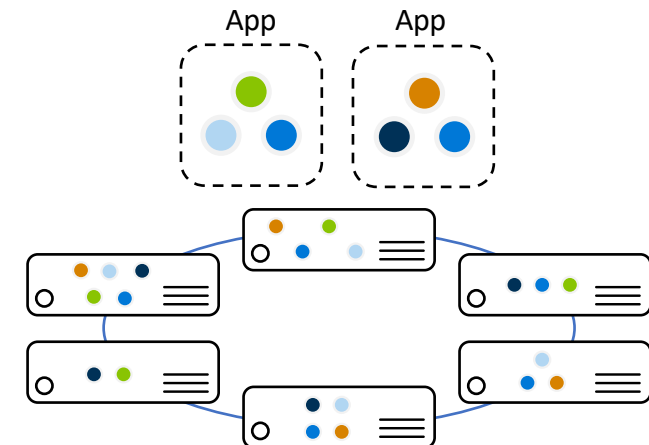
Developers work on individual services, which are smaller, easier to manage and understand

If individual services should fail, the application will continue to work without interruption

Microservices Large, all-inclusive app



Monolithic Small, independent services

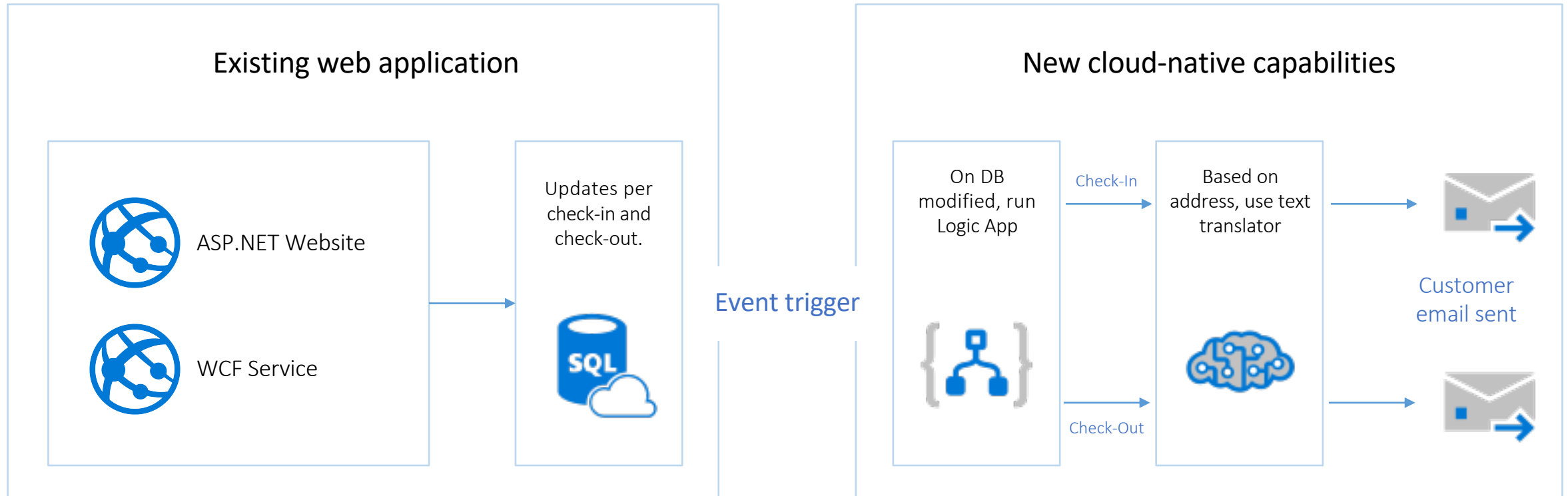


Serverless

Future-proofing applications with serverless

Adding new capabilities to existing applications

- Existing code and functionality is left as-is and moved to managed cloud services
- New capabilities are added incrementally using serverless functions triggered by events

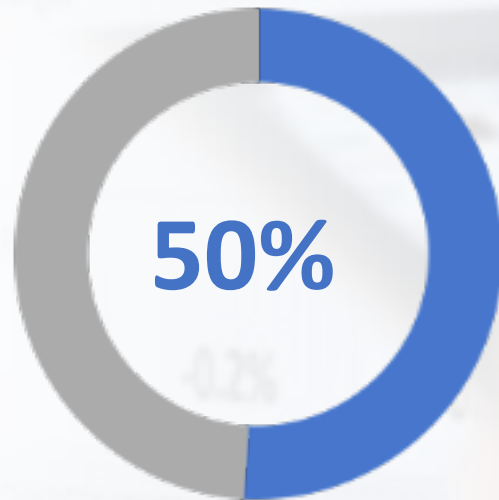




Innovate with Cloud-Native

“By 2020, more than 50% of enterprises will run **mission-critical, containerized Cloud-Native applications** in production”.

Gartner



Cloud application development

The best cloud for developers

Microsoft Azure is a flexible foundation for all applications – our full-stack cloud application platform covers user experience, backend, data, intelligence and DevOps



Multi-channel
user experiences



Open and hybrid
cloud backends



Data-driven
intelligence

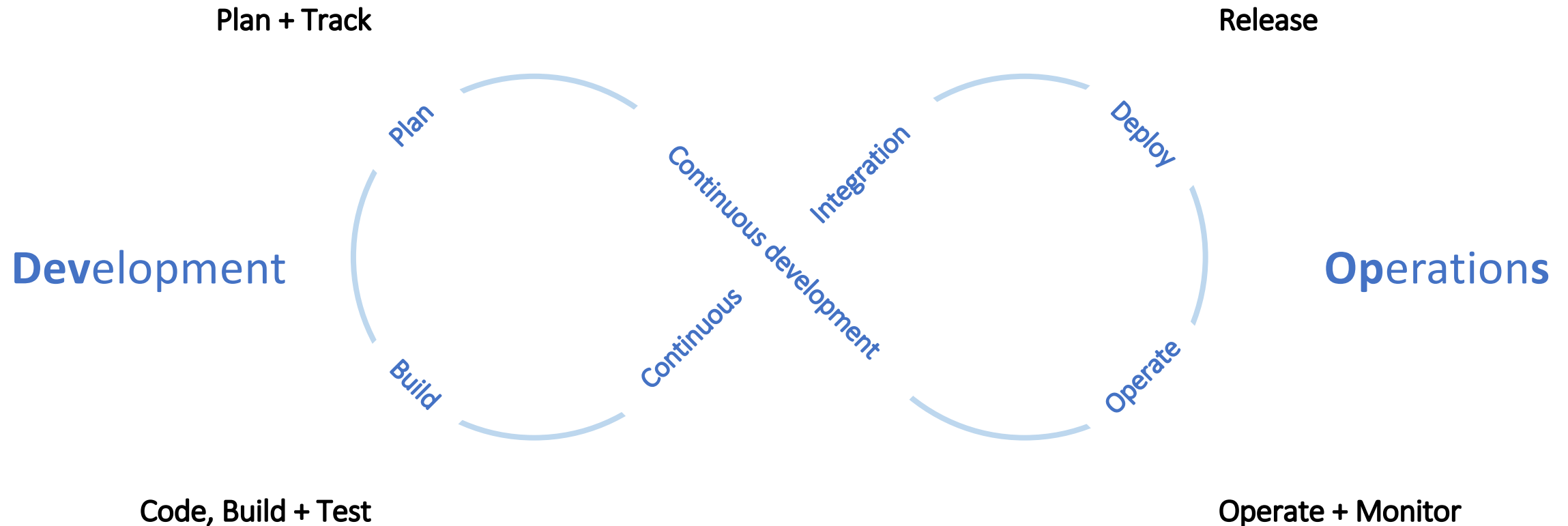


DevOps
built-in

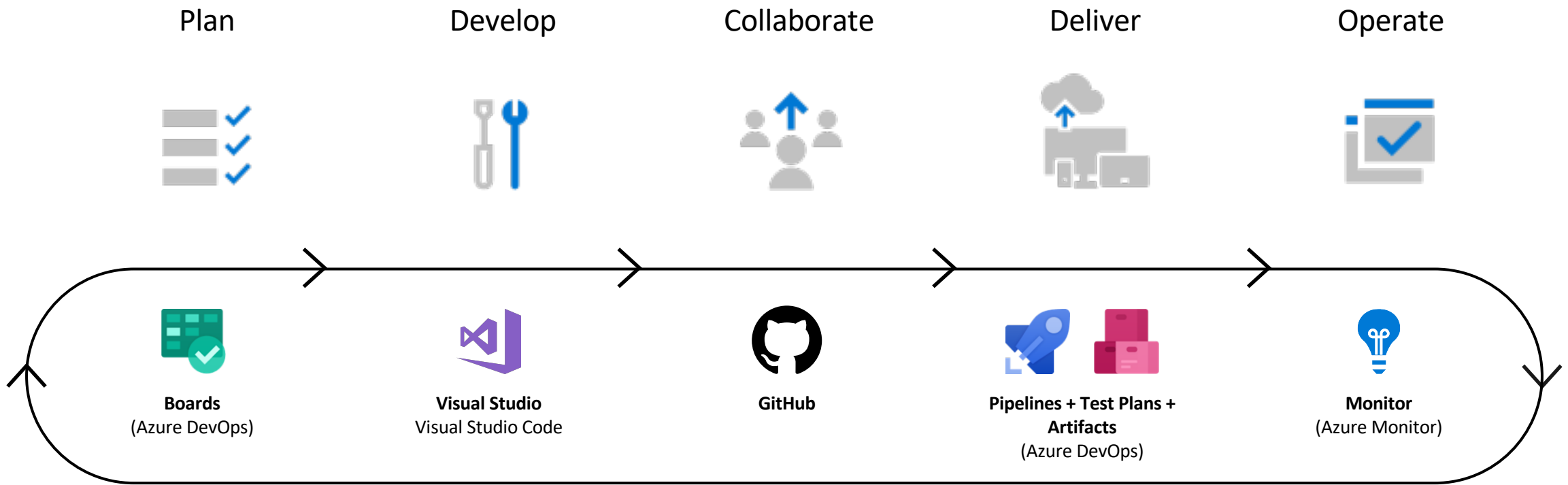
A person wearing a blue and white striped shirt is sitting at a desk. They are holding a pen and writing on a notepad. In the foreground, a laptop is open, showing a screen with some charts or graphs. The background is slightly blurred, showing a desk with some papers and a pen holder.

DevOps

Deliver applications faster and more reliably



Deliver applications faster and more reliably



Faster delivery to production • More business value

Our journey to DevOps



People

PM, Dev, Test roles
Personal offices
Deep hierarchy
20+ team sizes



PM & engineering roles only
Team rooms
Flattened hierarchy
8-12 team sizes



Process

4-6 month milestones
Features shipped once a year
Success is install numbers
Long planning cycles
Secret roadmap



3-week Sprints
Features shipped every Sprint
User satisfaction determines success
Continuous planning & learning
Publicly shared roadmap



Tools

100 page spec documents
Proprietary SC, TFSVC
Feature branches
Proprietary toolchain



Mockups in PPT
Git
Everyone in master
Azure DevOps