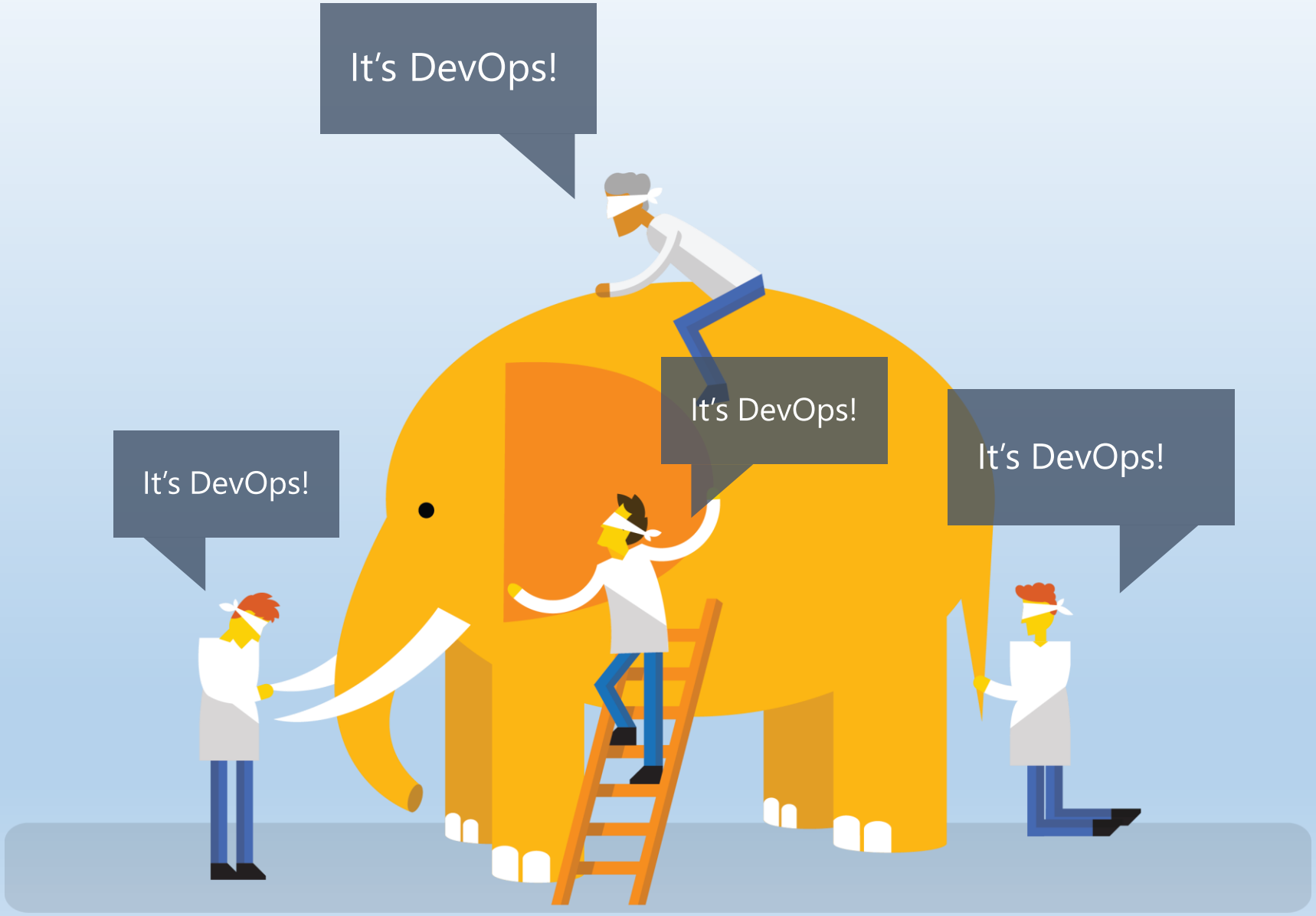
DevOps para pessoas sem ferramentas

Zandler Oliveira


It's DevOps!
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Deployment principles

No down time

Fully automated

Joint ownership between engineering and ops

Decoupled services: clear contracts

Feature flags

Feature flags

Decouples engineering and marketing

Control exposure

Granular

Controlled via PowerShell

Supports early feedback, experimentation

Conferences, launches

Manage the full stack

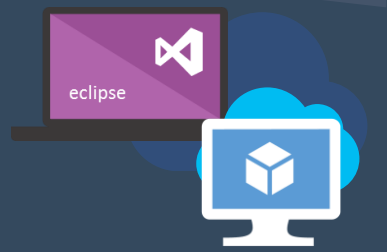
Monitor/Learn	Telemetry	Application Insights
	Diagnostics	Application Insights
	Performance	Application Insights
Approve	Notify Approvers	Release Management
	Notify Approvers	Release Management
Test	Manual Tests	Microsoft Test Manager
	Automated Tests	Coded UI, Web, Load
	Create Test Data	BacPac with SSDT
App	Configure Application	Tokenization
	Install Application	NuGet, WebDeploy, etc
Infra	Configure Environment	Desired State Configuration
	Provision Environment	Azure Resource Manager
Plan	Tracking Work	TFS / VSTS
	Planning Work	TFS / VSTS

Microsoft Ecosystem

People | Process | Tools

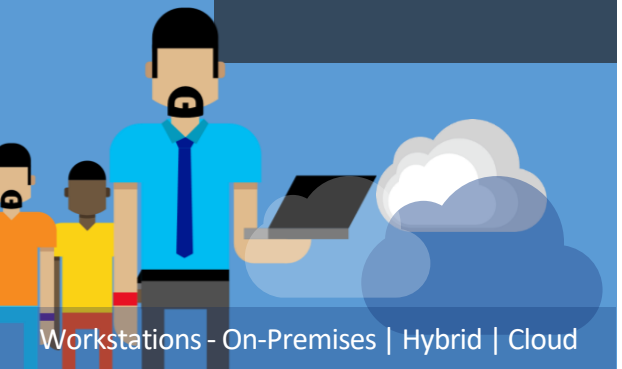
01 Develop

Developer Workstation



Team Collaboration

TFS / VSTS



Workstations - On-Premises | Hybrid | Cloud

02 Build & Test

Build/CI

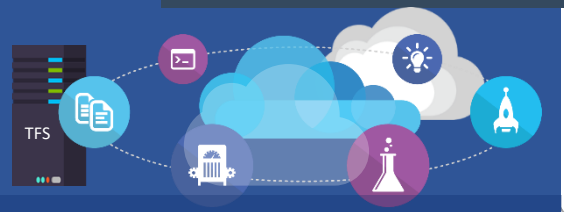
TFS / VSTS

Release Management for Visual Studio

Test

TFS / VSTS

Microsoft Test Manager



ALM Services - On-Premises | Hybrid | Cloud

03 Deploy

Release

Microsoft System Center

Release Management for Visual Studio

Automation Service

PowerShell | WAML

Azure Resource Management

xPlat Command Line

Environments - On-Premises | Hybrid | Cloud

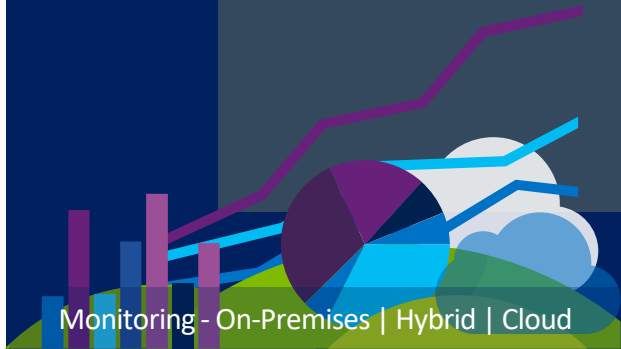
04 Monitor & Learn

Monitor

Microsoft System Center

VSTS

Application Insights



Monitoring - On-Premises | Hybrid | Cloud

Mixed Ecosystem

People | Process | Tools

01 Develop

Developer Workstation

Team Collaboration

GitHub

CodePlex

02 Build & Test

Build/CI

gradle

GRUNT

Jenkins

Hudson

Test

gradle

GRUNT

03 Deploy

Configuration

puppet labs

CHEF

Release

gradle

GRUNT

Jenkins

Hudson

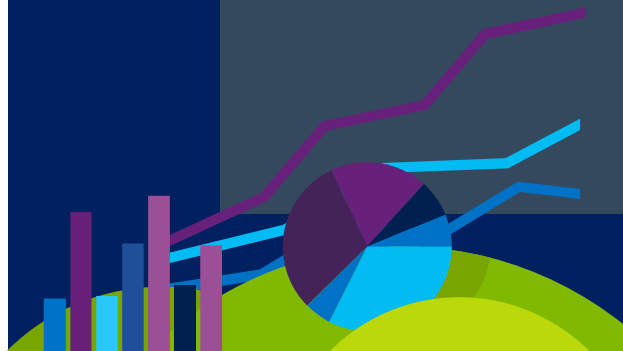
VAGRANT

04 Monitor & Learn

Monitor

Nagios

ZABBIX



This graphic shows OSS and partner products that are integrated with the Microsoft DevOps solution

List of DevOps Practices

- Infrastructure as Code (IaC)
- Continuous Integration
- Automated Testing
- Continuous Deployment
- Release Management
- App Performance Monitoring
- Load Testing & Auto-Scale
- Availability Monitoring
- Capacity Management
- Change/Configuration Management
- Feature Flags
- Automated Environment De-Provisioning
- Self Service Environments
- Automated Recovery (Rollback & Roll-Forward)
- Hypothesis Driven Development
  - Testing in Production
  - Fault Injection
  - Usage Monitoring / User Telemetry

http://www.itproguy.com/devops-practices/

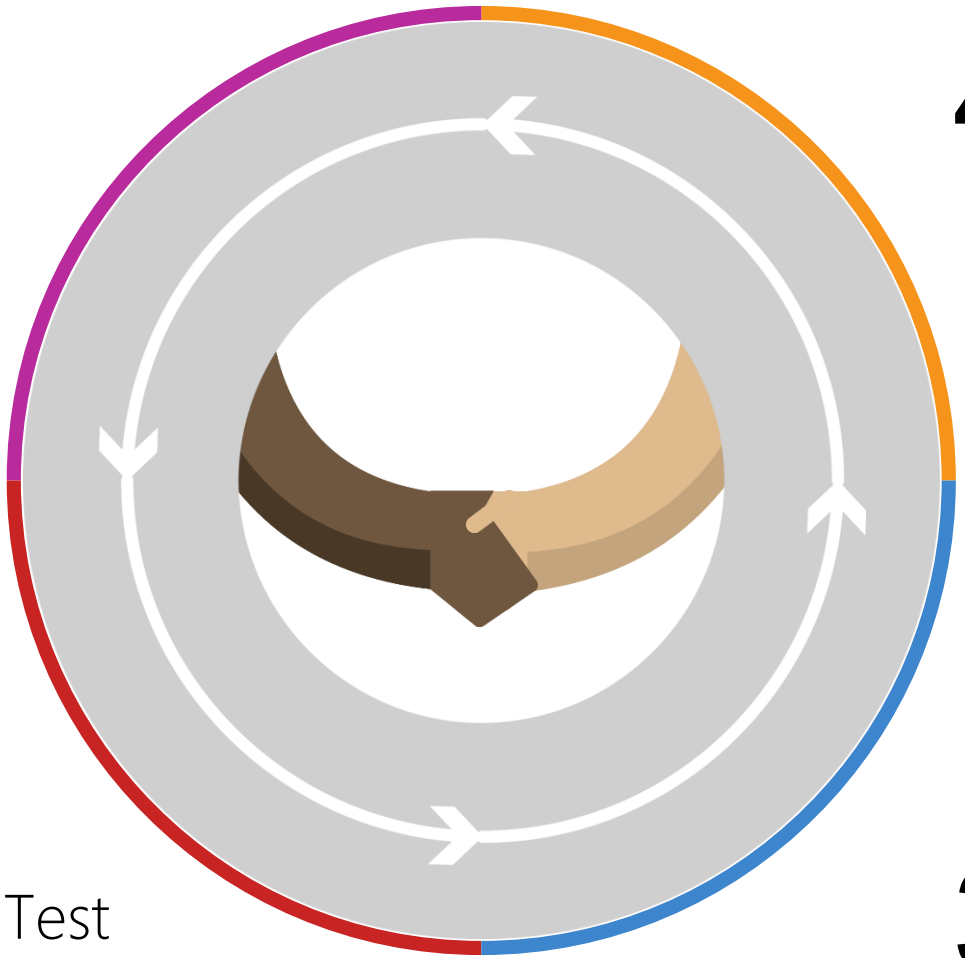
DevOps

1 Plan

2 Develop + Test

3 Release

4 Monitor + Learn

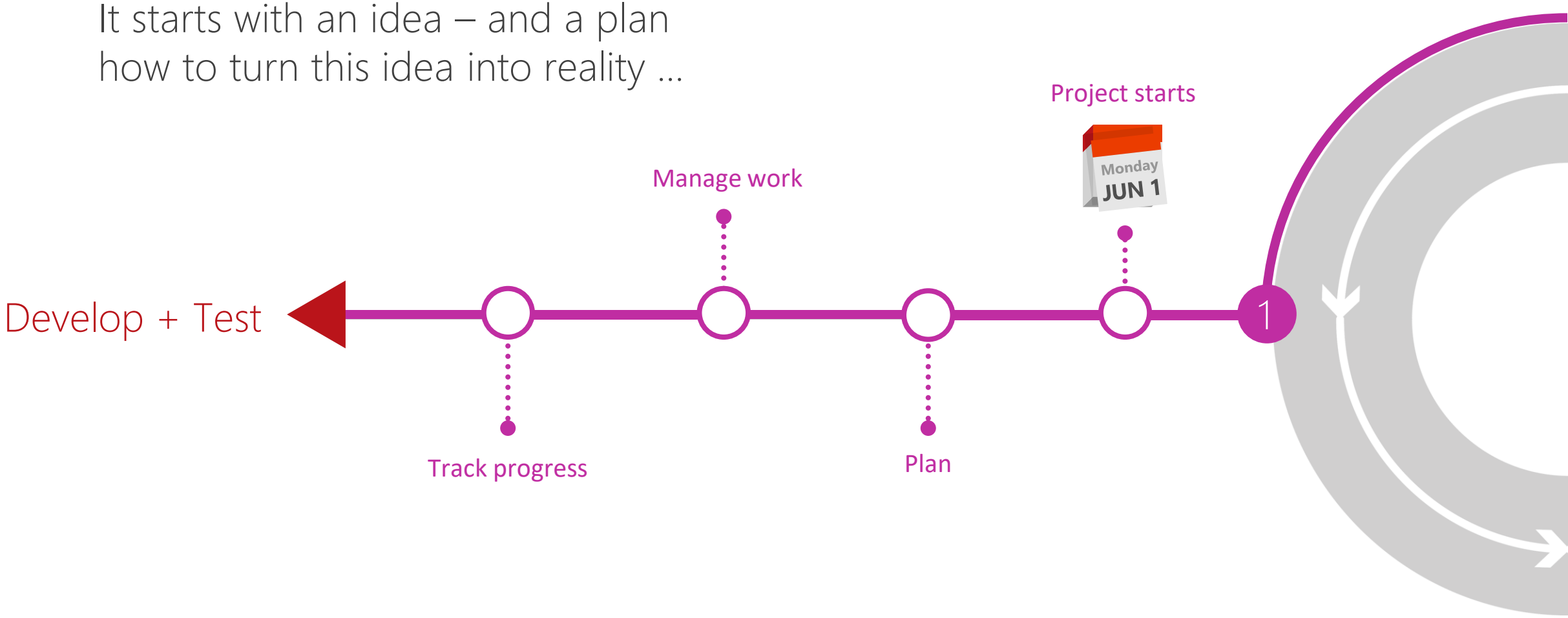


Development

Production

Plan

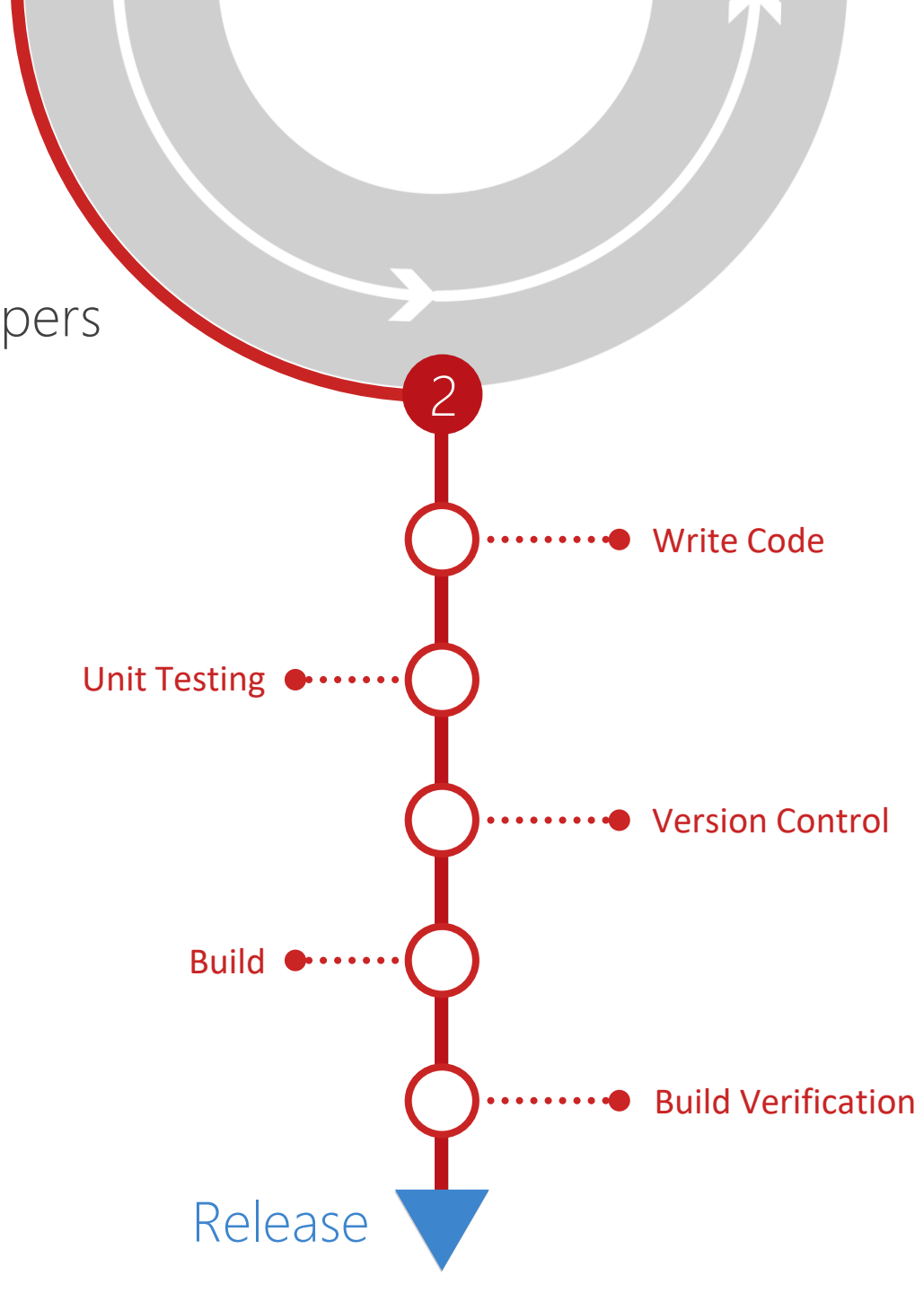
It starts with an idea – and a plan
how to turn this idea into reality …



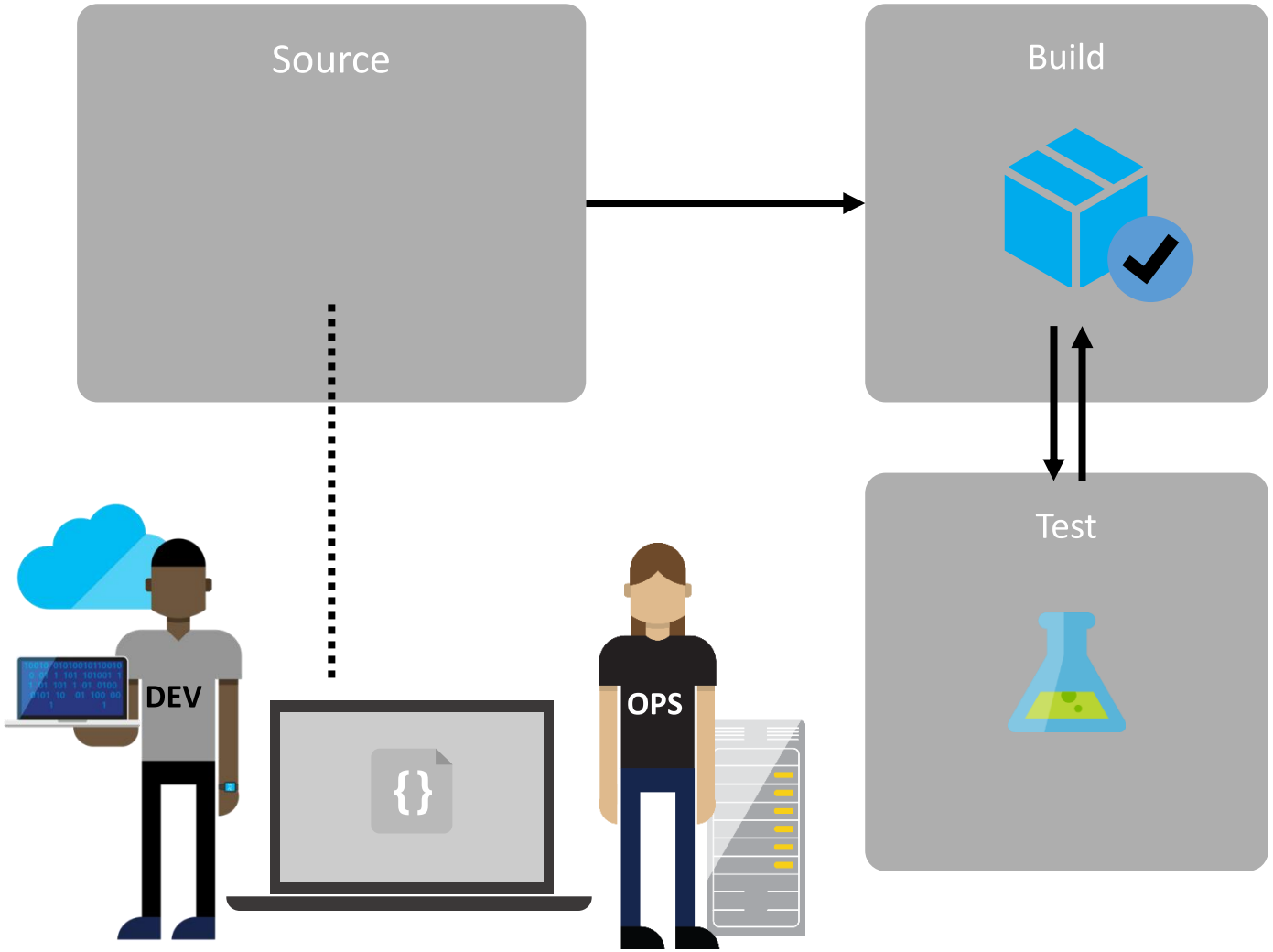
Kanban

Develop + Test

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



Continuous Integration



Value

- Accelerate Delivery
- Repeatability
- Optimized Resources

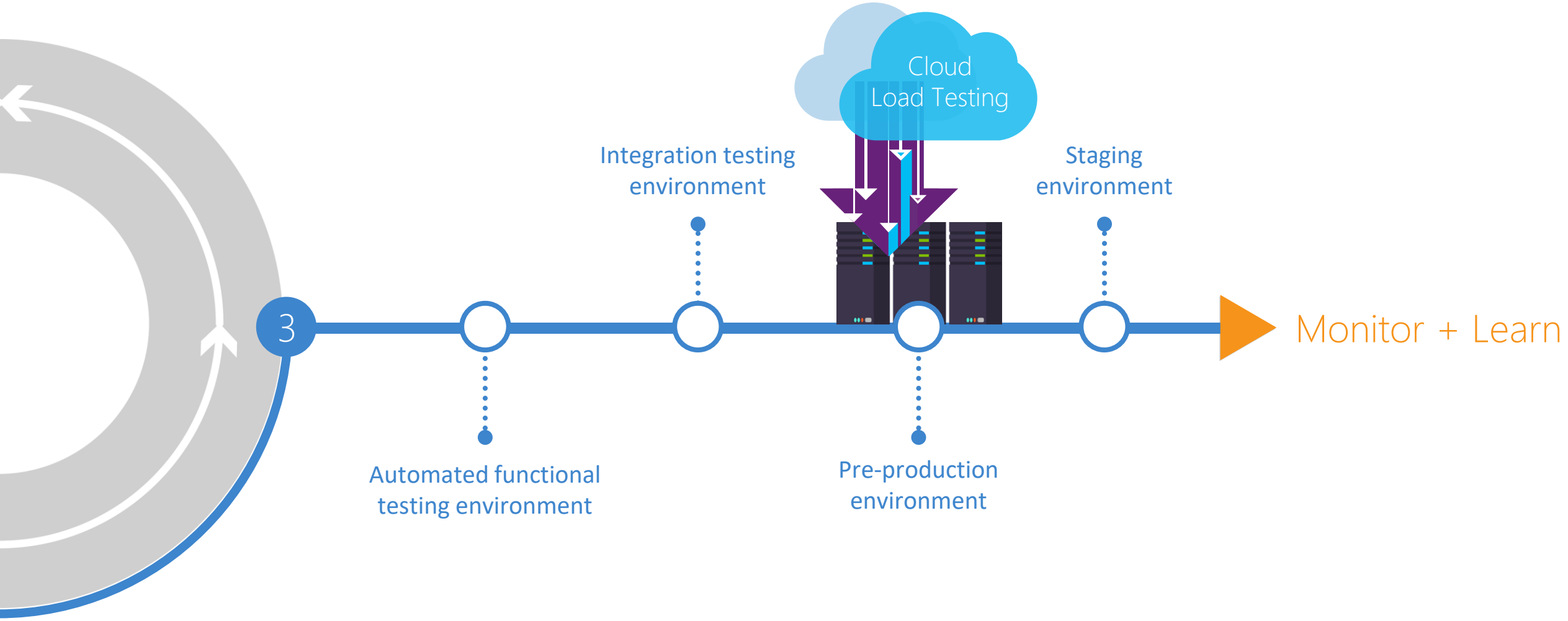
Measure

- More frequent releases
- MTTR
- MTTD

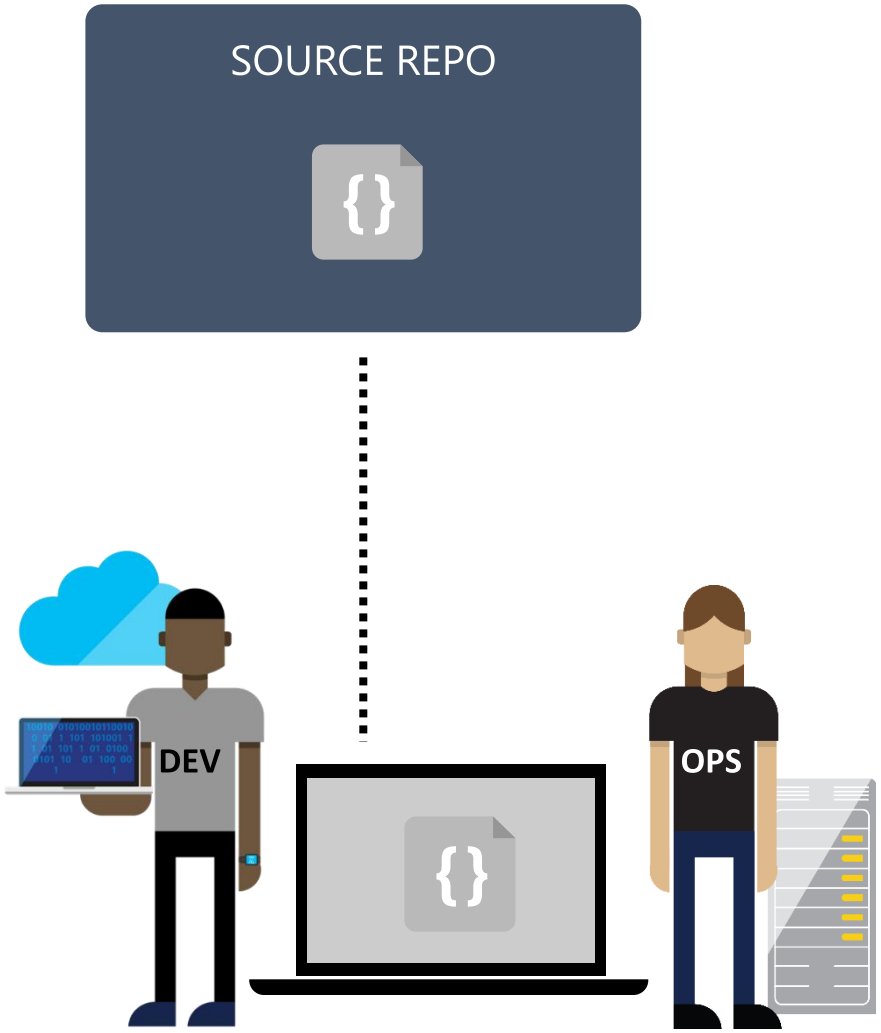
Continuous Integration

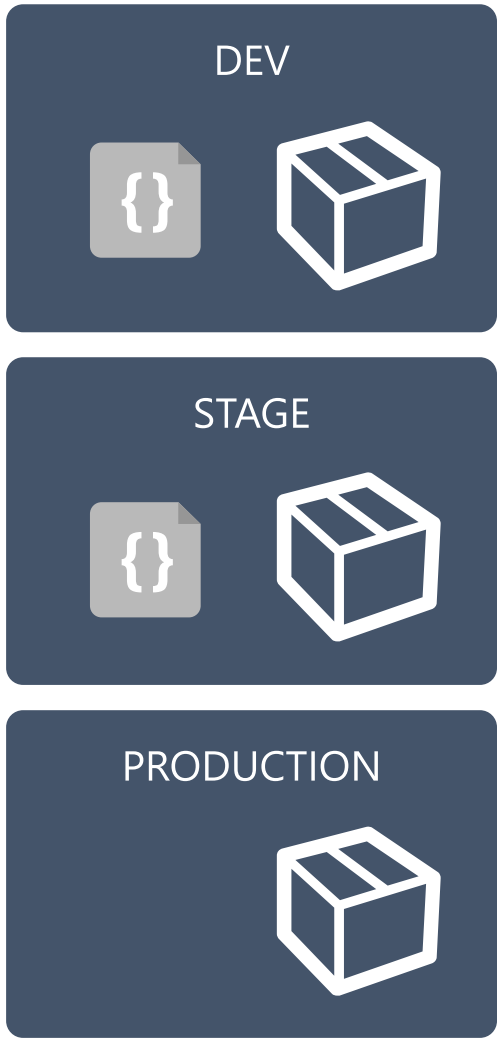
Release

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



Release Management





Value

- Optimized Resources
- Accelerate Delivery

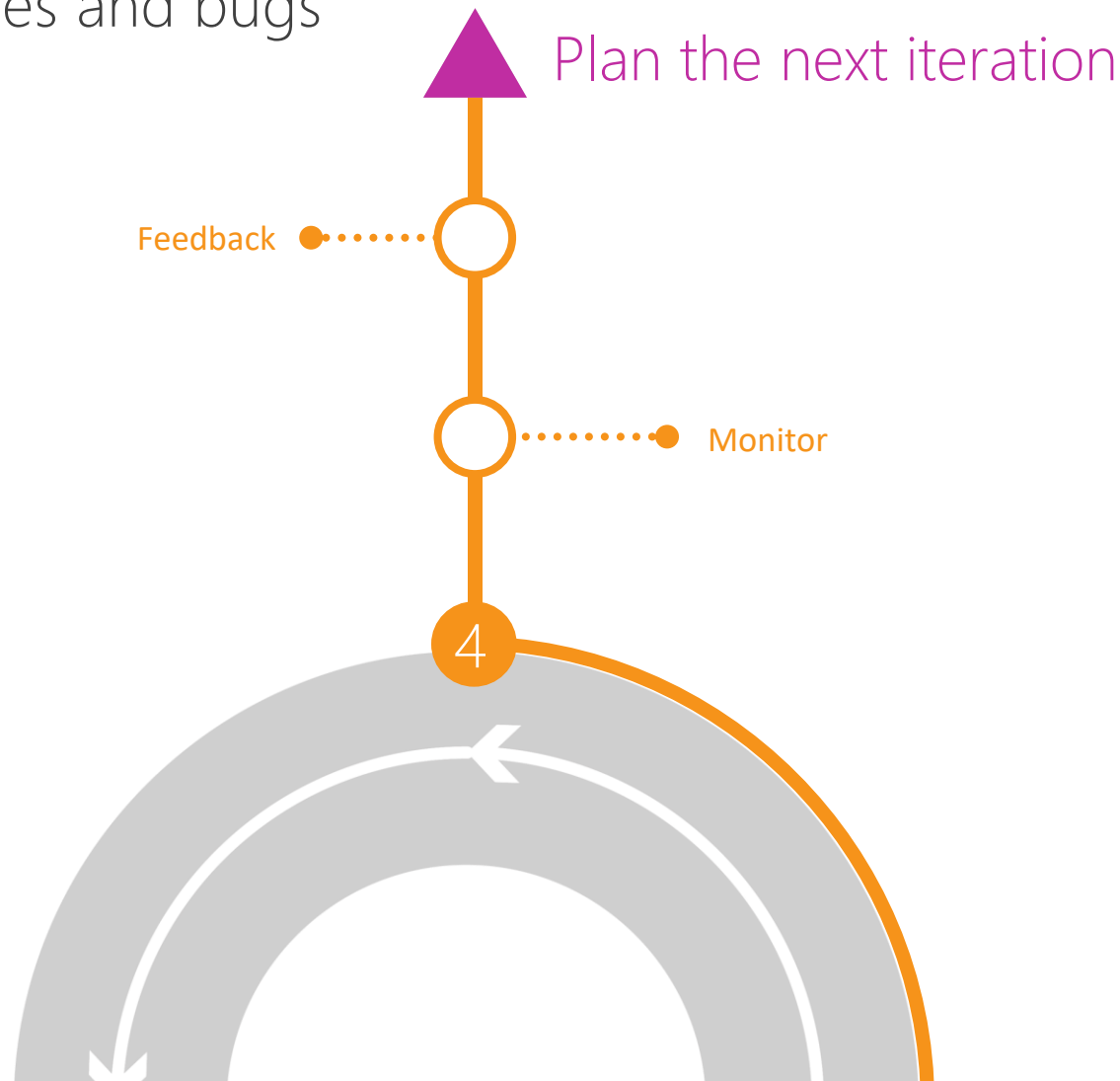
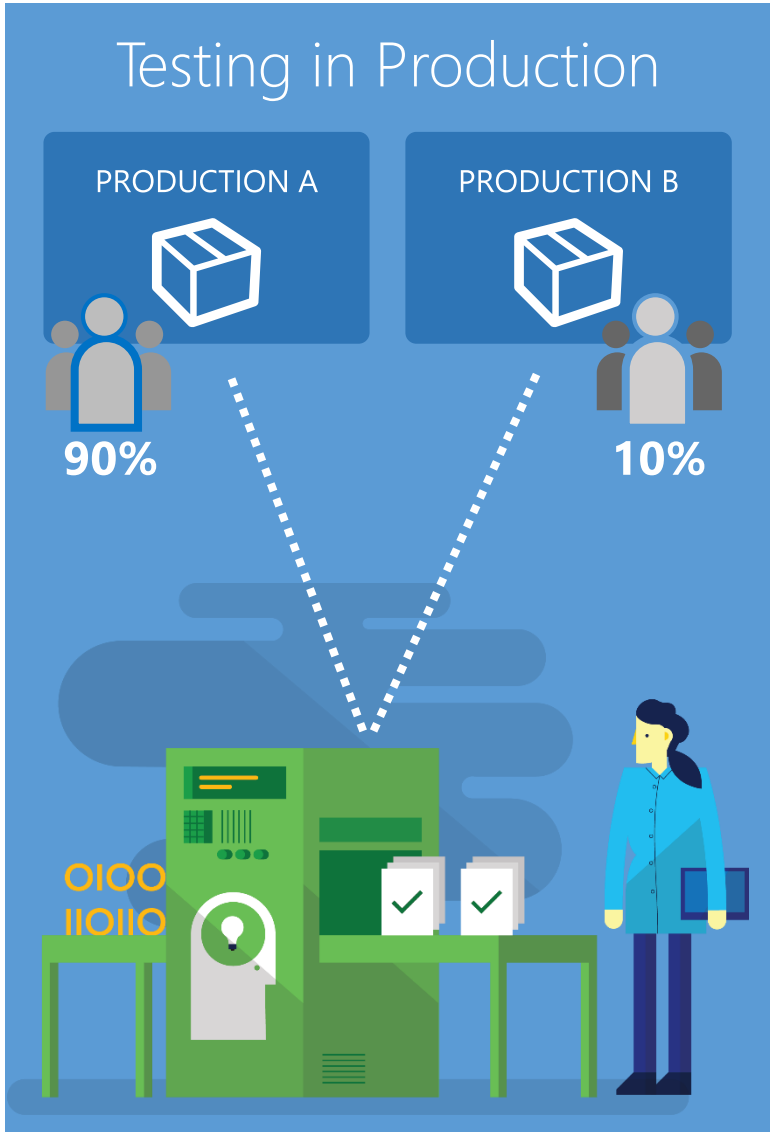
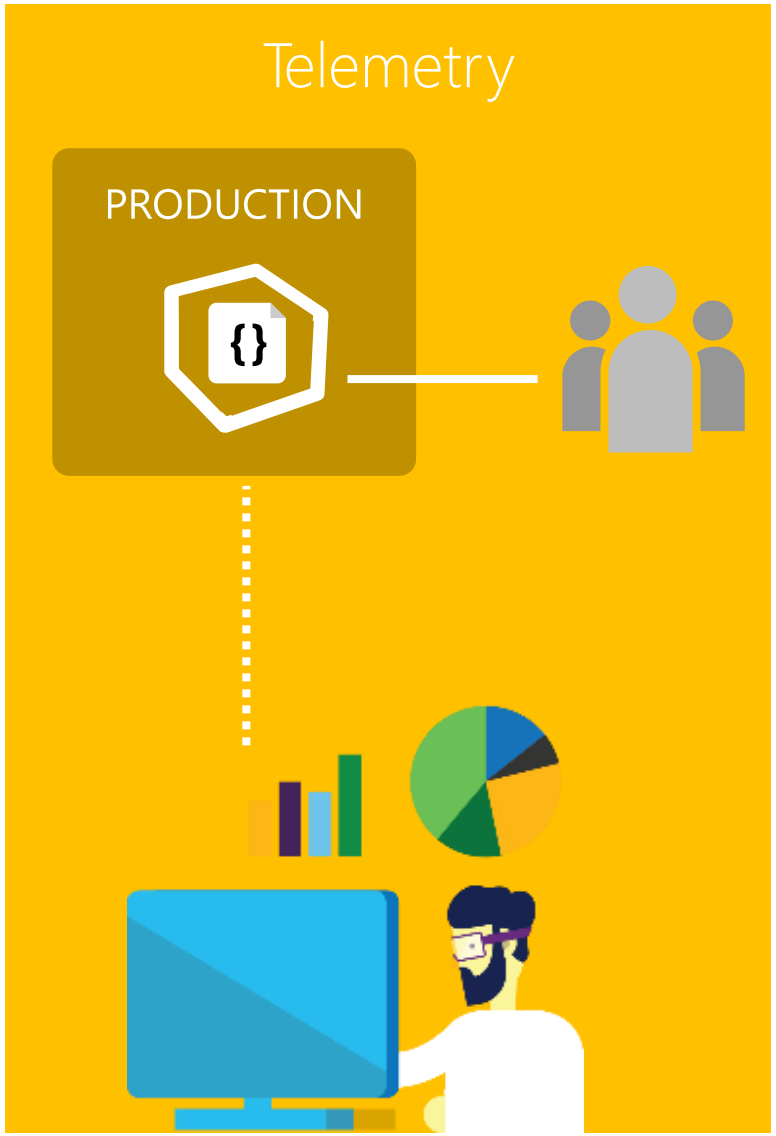
Measure

- Deployment Rate
- MTTR
- Availability

Continuous Deployment & Release Management

Monitor + Learn

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



Monitor and Learn