# Что такое DevOps и почему он помогает делать программные продукты лучше, а пользователей счастливее

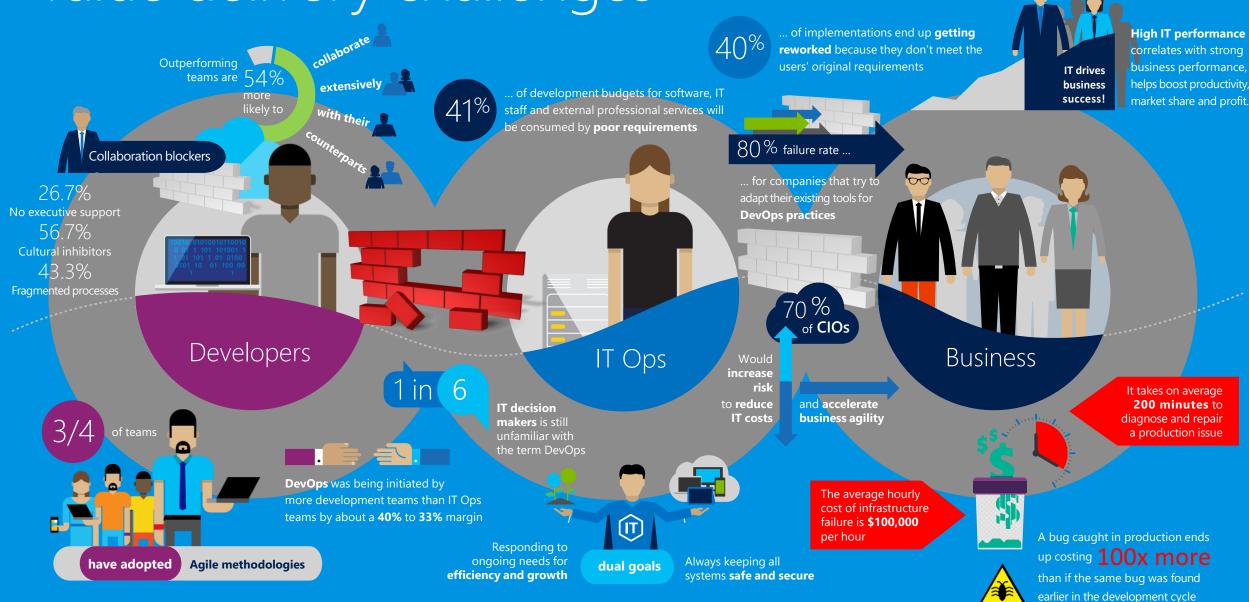
ВЛАДИМИР ГУСАРОВ

ДИРЕКТОР R&D, ONE IDENTITY (QUEST SOFTWARE)

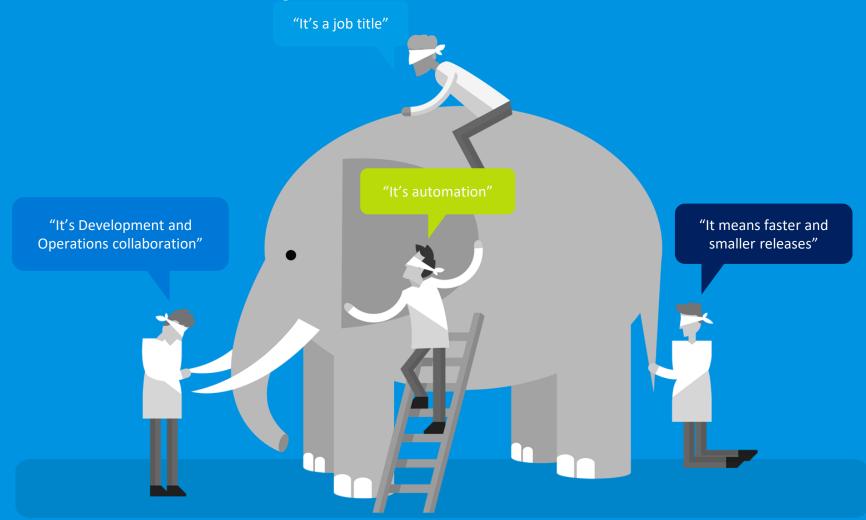
VISUAL STUDIO ALM MVP

ALM RANGER

Value delivery challenges



# What is DevOps?





**PEOPLE** 

Collaborate more
Share common goals
Focus on improvement
BRINGING PEOPLE TOGETHER

# The DevOps conversation



**PROCESS** 

Eliminate waste
Increase efficiency
Streamline feedback



TOOLS

Enhance productivity
Enable collaboration
Facilitate experimentation

EXECUTING A DEVOPS STRATEGY

## DevOps habits and practices

**Automated Testing Continuous Integration Continuous Deployment Release Management** 

> FLOW OF CUSTOMER VALUE

**AUTONOMY** & ENTERPRISE ALIGNMENT

TEAM

#### **PRACTICES**

**Automated Testing Continuous Integration Continuous Deployment Release Management** 

#### PRACTICES

**Usage Monitoring Telemetry Collection Testing in Production** Stakeholder Feedback

> BACKLOG refined with LEARNING

**EVIDENCE** gathered in **PRODUCTION** 

MANAGED TECHNICAL DEBT

PRACTICES

**Code Reviews** 

**Automated Testing** 

**Continuous Measurement** 

**PRODUCTION** FIRST MINDSET

INFRA-STRUCTURE is a FLEXIBLE

RESOURCE

#### PRACTICES

**Testing in Production Usage Monitoring User Telemetry** Stakeholder feedback Feature flags

#### **PRACTICES**

Application Performance Management Infrastructure as Code **Continuous Deployment** Release Management **Configuration Management Automated Recovery** 

#### PRACTICES

**Application Performance Management** Infrastructure as Code **Continuous Delivery** Release Management **Configuration Management Automated Recovery** 

## A converged lifecycle



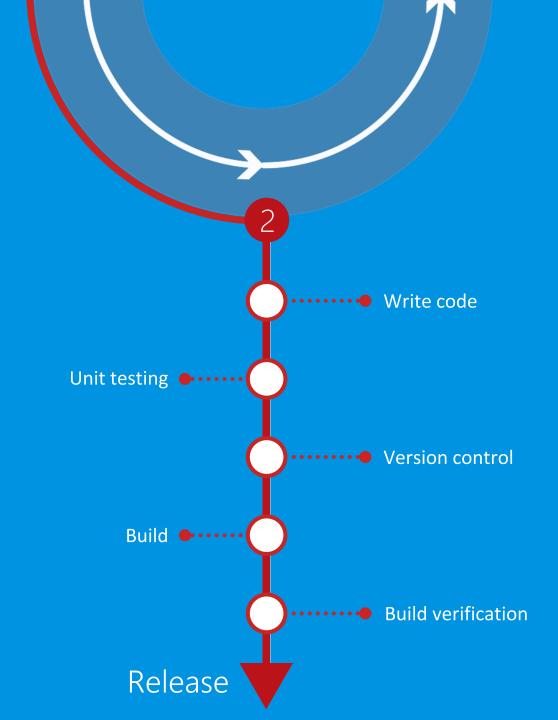
# Plan

It starts with an idea - and a plan how to turn this idea into reality... Project starts Monday Manage work Develop + Test Plan Track progress

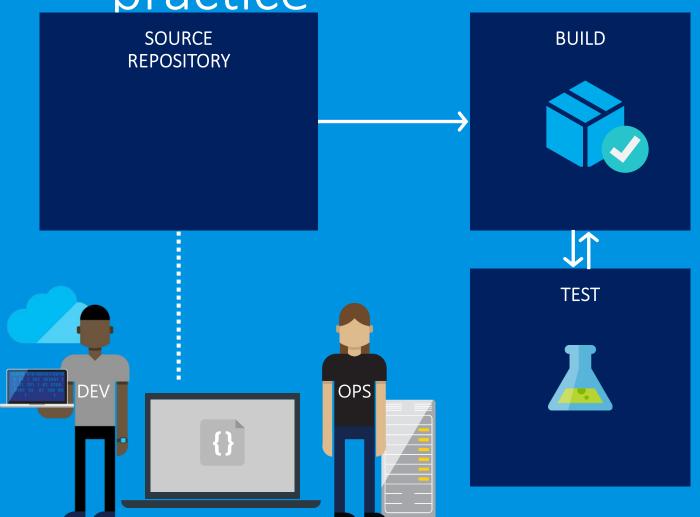


# Develop + Test

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



# Continuous Integration (CI) — a DevOps practice



#### Issues

- Delivery delays
- Non-working/low-quality code
- Incomplete solutions
- Rework

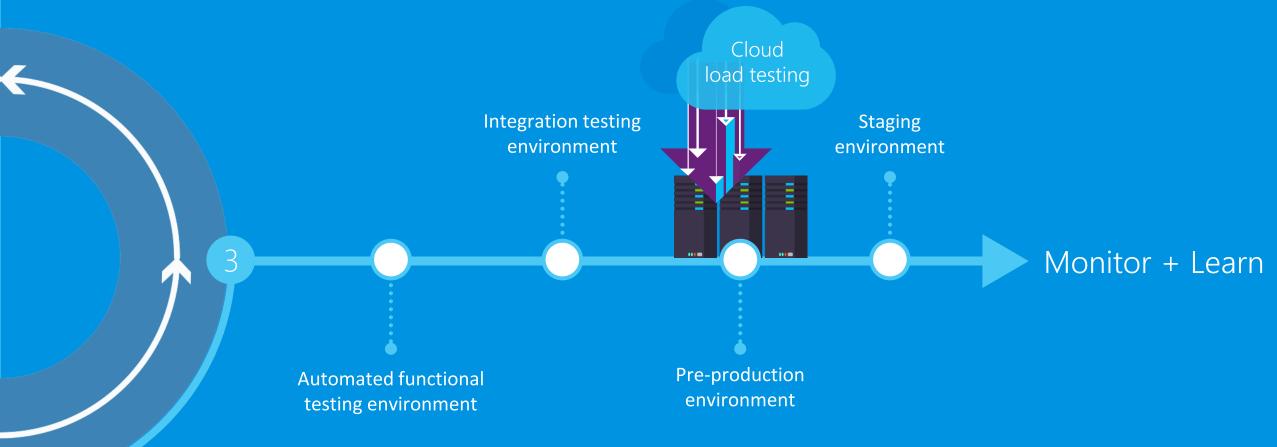
#### Value

- Frequent integration
- Higher quality
- Repeatability



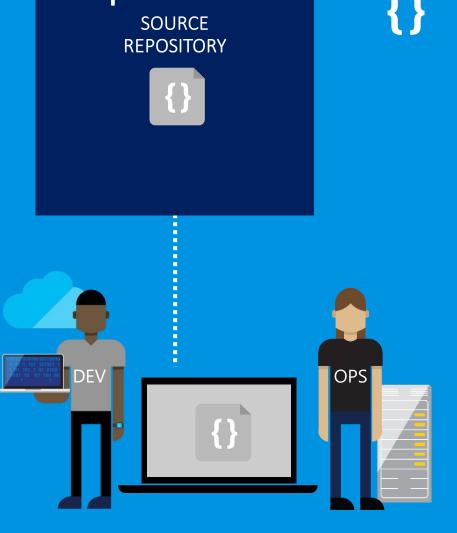
## Release

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



Continuous Delivery (CD) — a DevOps

practice









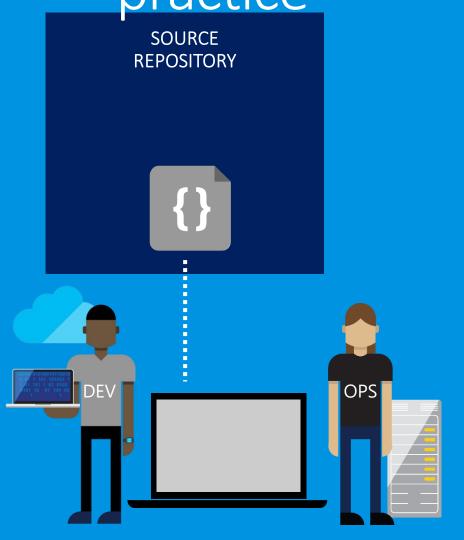
#### Issues

- Slow delivery cadence
- Limited predictability when deploying
- Complexity when deploying

#### Value

- Consistency
- Accelerated deployment
- Repeatability
- Human error reduction

Infrastructure as code (IAC) — a DevOps practice









#### Value

- Optimize resources
- Accelerate delivery

#### Measure

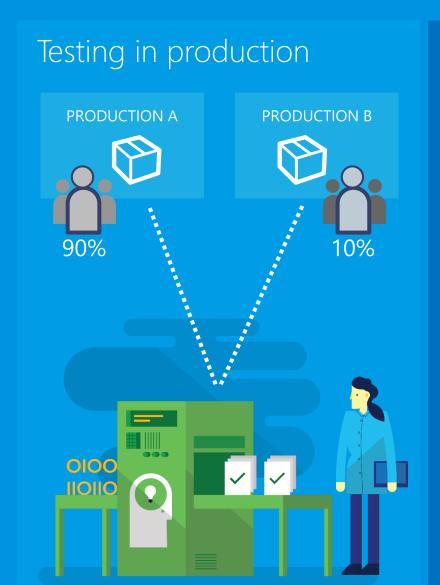
- Deployment rate
- MTTR

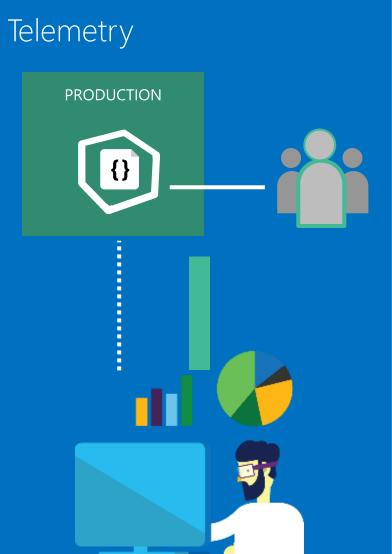


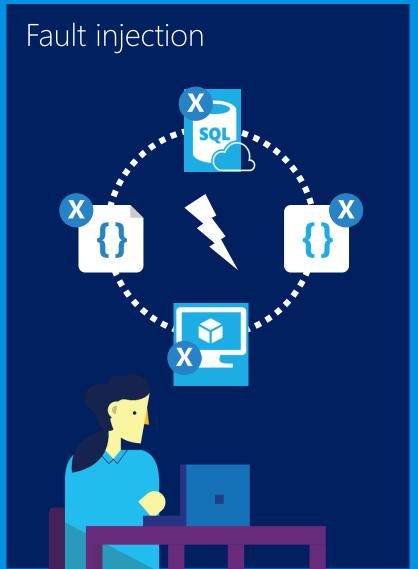
# Monitor + Learn

Learn and understand how users use your app, how it reacts and quickly fix issues and buts Plan the next iteration Feedback ••••••

## Learning from production – DevOps practices







# управление выпуском

{ДЕМОНСТРАЦИЯ}

## Примеры успеха

Team Foundation Server

• Выпуск каждые 3 месяца

Visual Studio Team System

• Выпуск каждые 3 недели

### Спасибо за внимание!

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