

Activate Azure with DevOps



Microsoft Services



Activate Azure with DevOps

Module 5: DevOps Foundations



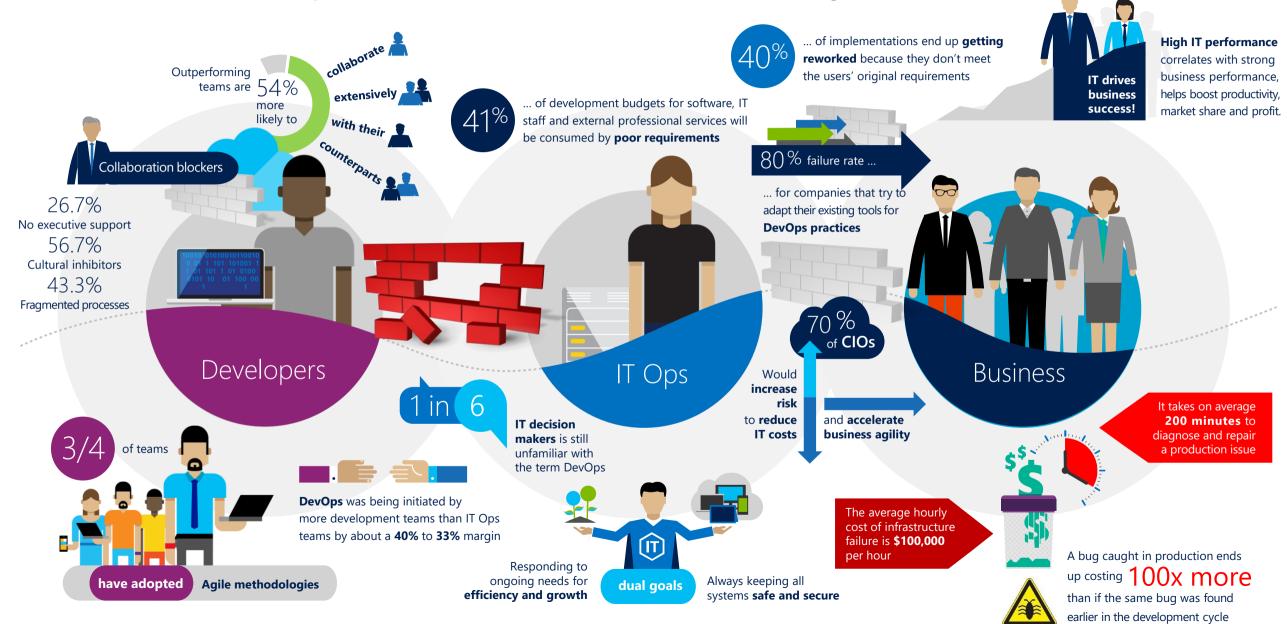
Objectives

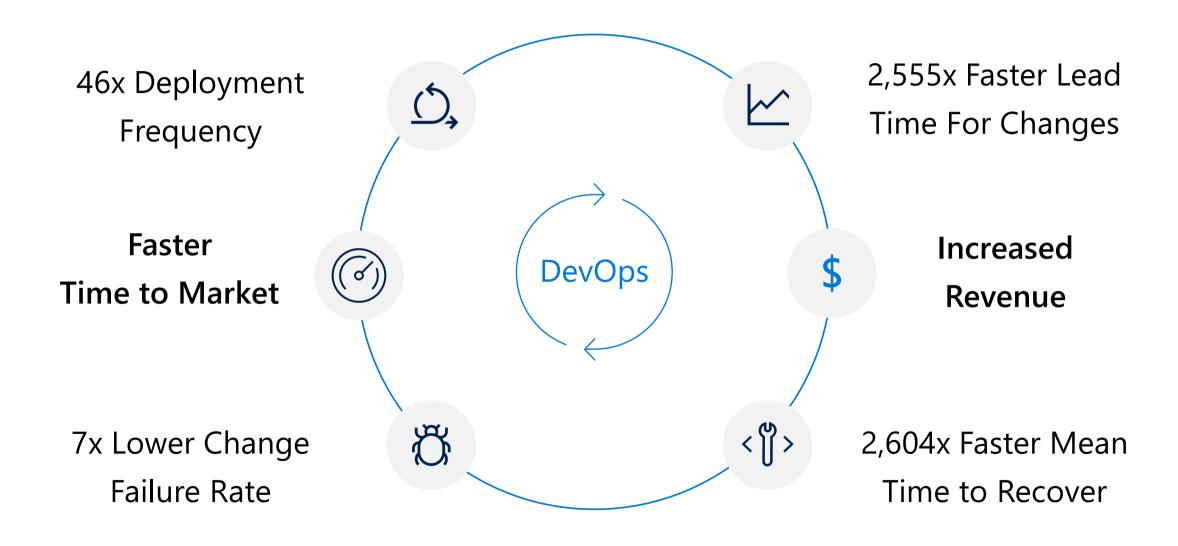
After completing this learning unit, you will understand

- Why DevOps?
- The Conversation
- DevOps Journey
- Business Value of DevOps

Why DevOps?

The consequences of inefficiency





DevOps at Microsoft

Azure DevOps is the toolchain of choice for Microsoft engineering with over 90,000 internal users



https://aka.ms/DevOpsAtMicrosoft

372k
Pull Requests per month

4.4m
Builds per month

5m Work items viewed per day

2m Git commits per month 500m
Test executions per day

500k
Work items updated per day

78,000

Deployments per day

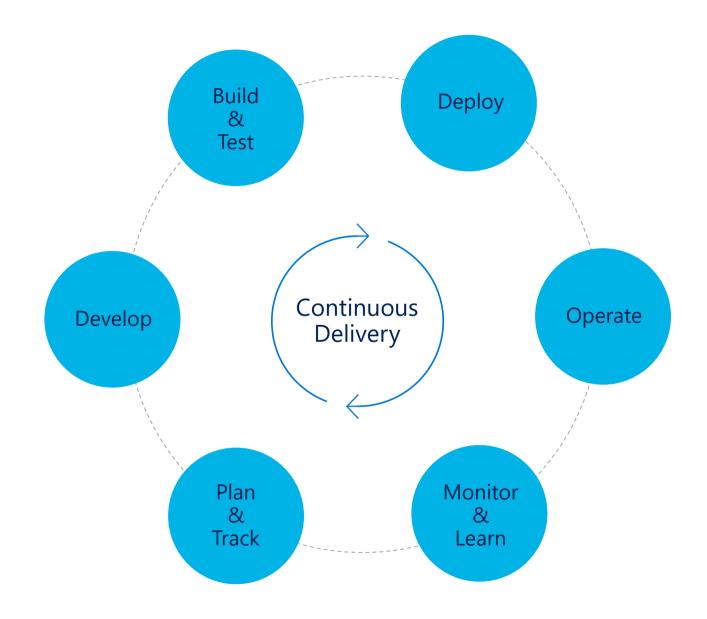
The Conversation

What is DevOps?

People. Process. Products.

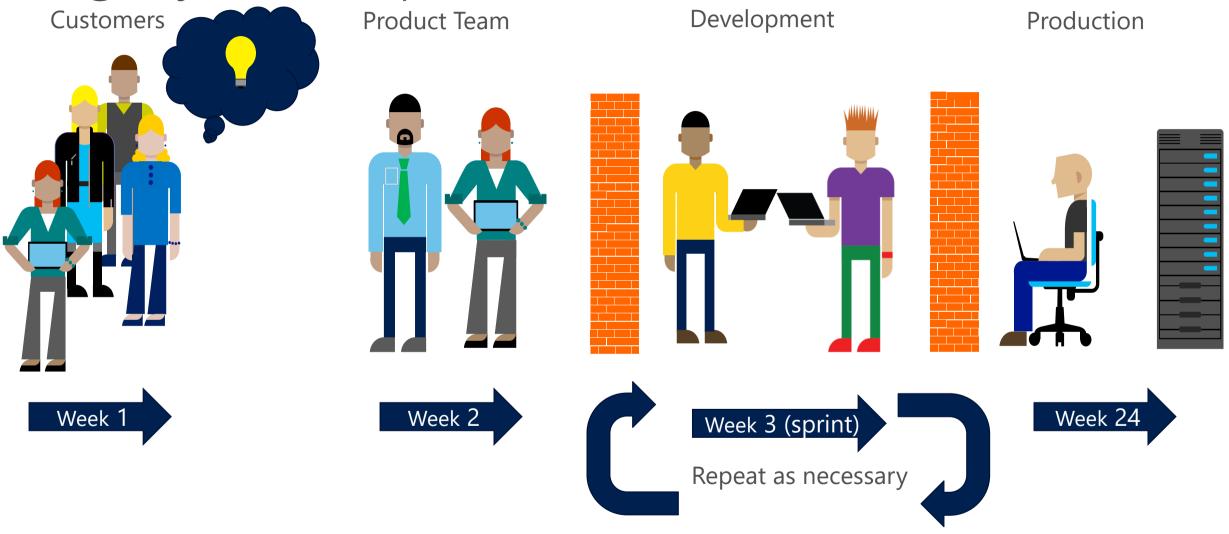


DevOps is the union of people, process, and products to enable continuous delivery of value to your end users.



DevOps Journey

Legacy Development Pattern



What Happens?

Production



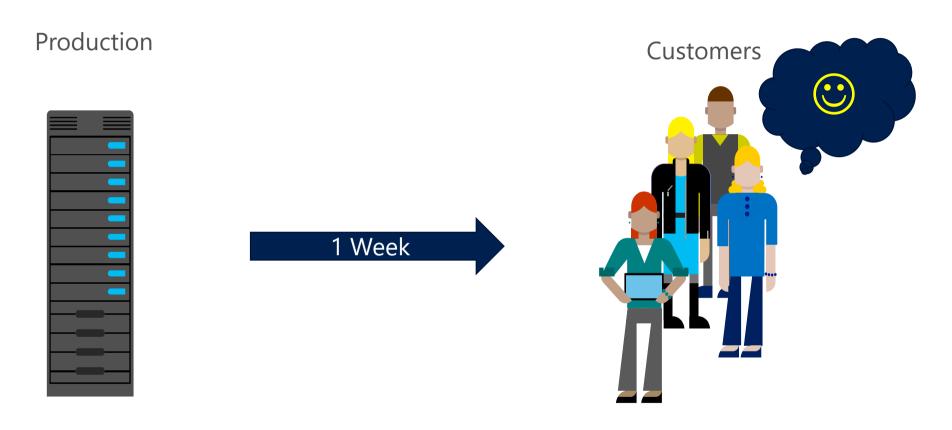
6 months later



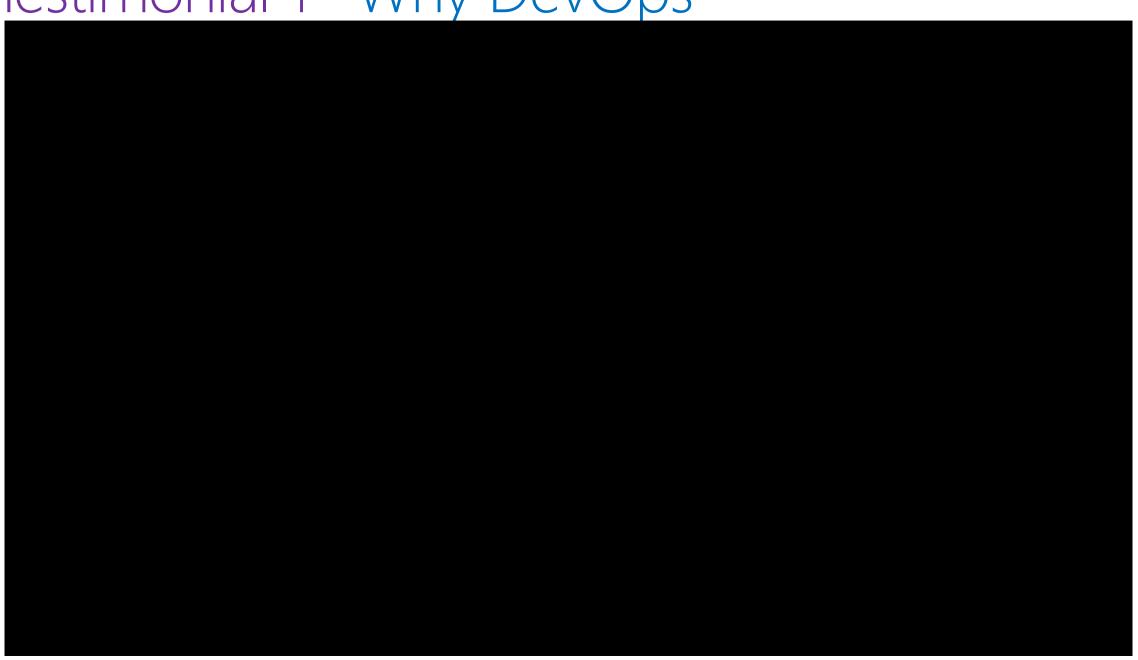
Feature Team



What Happens?



Testimonial 1— Why DevOps



Discussion

Where are you on this Journey?



DevOps Frame

100 level Overview

People, Process, Biz Value, LM foundation, etc.

200 level Practices

Infrastructure as Code

Continuous Integration

300 level Product w/ Practice

Azure Deployment Template with Azure Website + SQL DB

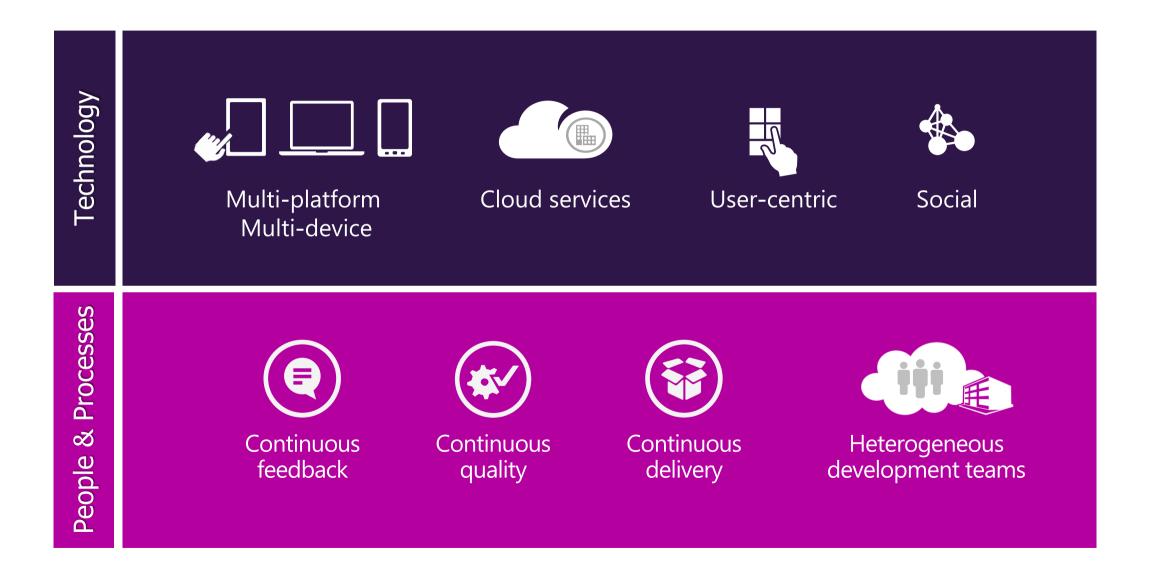
Chef Recipe with Linux VM on Azure

Azure DevOps (git) + Jenkins (build)

Github + Azure DevOps Gradle (build)

Business Value of DevOps

Industry trends





What's the problem Opportunity?

60%

apps get to market

70%

apps go to market missing functionality

5

months on average to create a new app. Only 28% of companies worldwide create an app in less than 3 months

Lengthy lifecycles

Arriving to market too late

Poor quality

Solution: Deliver Value Faster



Testimonial 2: Industry changes



Additional Courses/Resources

- Microsoft Learn
 - https://docs.microsoft.com/en-us/learn/
 - https://docs.microsoft.com/en-us/learn/paths/evolve-your-devops-practices/
- Microsoft Azure Certifications
 - https://docs.microsoft.com/en-us/learn/certifications/
 - https://docs.microsoft.com/en-us/learn/certifications/roles/devops-engineer
- Microsoft DevOps Resource Center
 - https://docs.microsoft.com/en-us/azure/devops/
 - https://aka.ms/DevOpsAtMicrosoft

