THE MICROSOFT
DevOps Story
WITH VSTS

Jason Poon (@jasonthepoon)
Software Engineer, Microsoft

AGENDA

01

BDD: BEAUCRATIC DRIVEN DEVELOPMENT

TRADITIONAL DEVELOPMENT + DEPLOYMENT

Frustration

Delays

Lack of Insights

02

WHAT IS DEVOPS?

WHAT IS DEVOPS?

/dɪˈvɒpːˈɛs/

Noun

a cross-disciplinary community of practices dedicated to the study of building, evolving and operating rapidly-changing resilient systems at scale.

DEVOPS BENEFITS

Competitive advantage
Firms with high-performing IT organizations were 2x as likely to exceed their profitability, market share, and productivity goals

Deploy code 200x times
with 2555x faster lead times compared to lower-performing peers
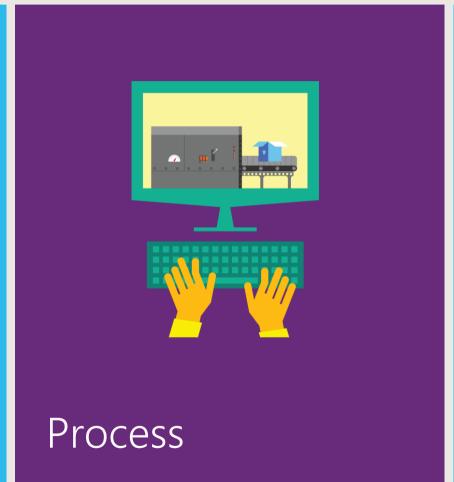
Improved code quality
22% less time on unplanned work and rework

3x lower failure rate
and 24x faster mean time to recover (MTTR)

puppet labs
2016
STATE OF
Dev Ops
REPORT
IT REVOLUTION
In Partnership with
Sponsored by pwc

03

IMPLEMENTING DEVOPS

THE DEVOPS CONVERSATION

People

Process

Tools
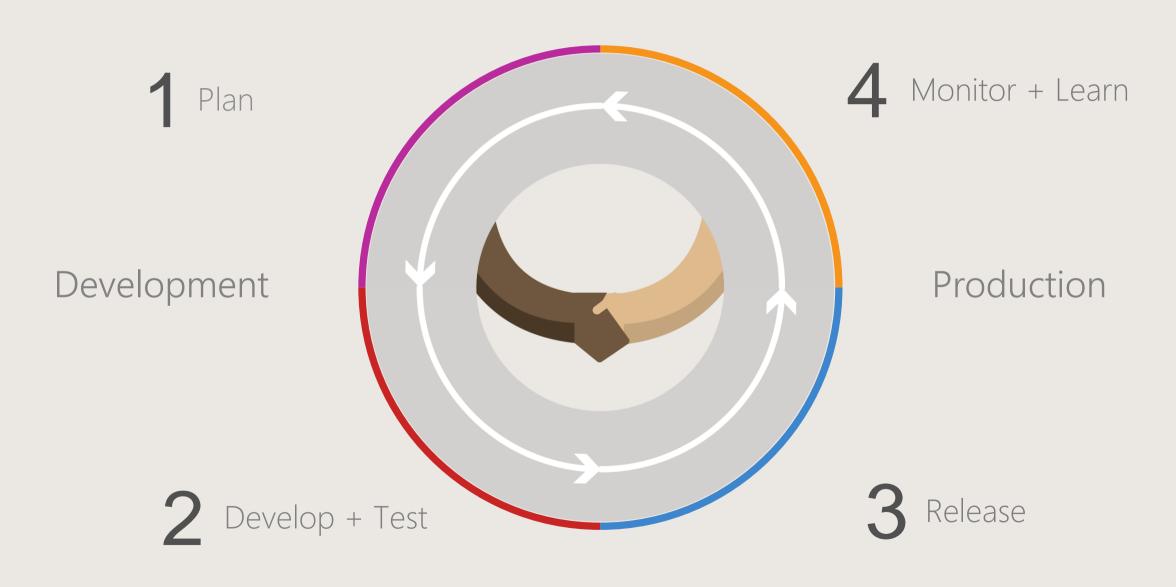
04
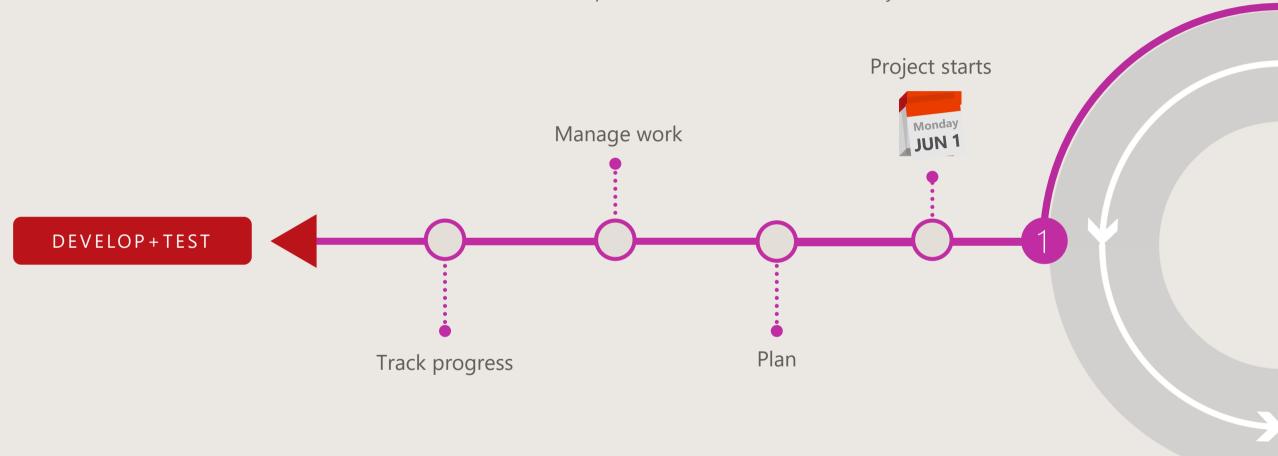
DEVOPS AT MICROSOFT
WITH VISUAL STUDIO TEAM SERVICES

THE DEVOPS LIFECYCLE

1 Plan

Development

2 Develop + Test

4 Monitor + Learn

Production

3 Release
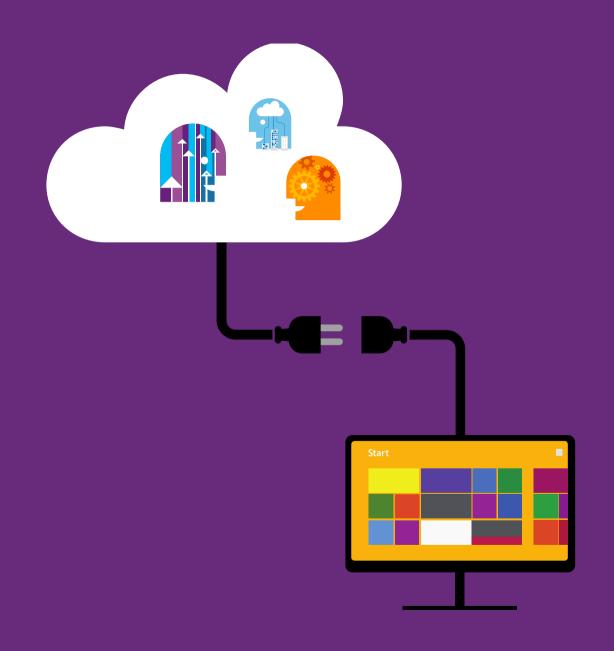
PLAN

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

Project starts

Monday
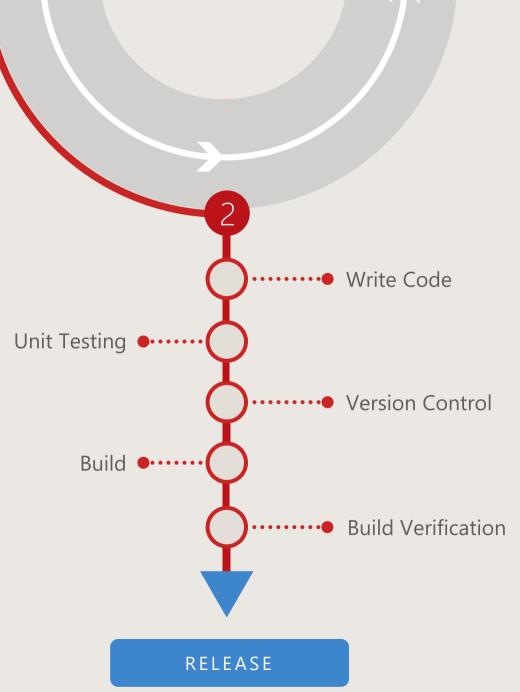JUN 1

Manage work

Plan

DEVELOP+TEST

Track progress

1

DEMO

Plan
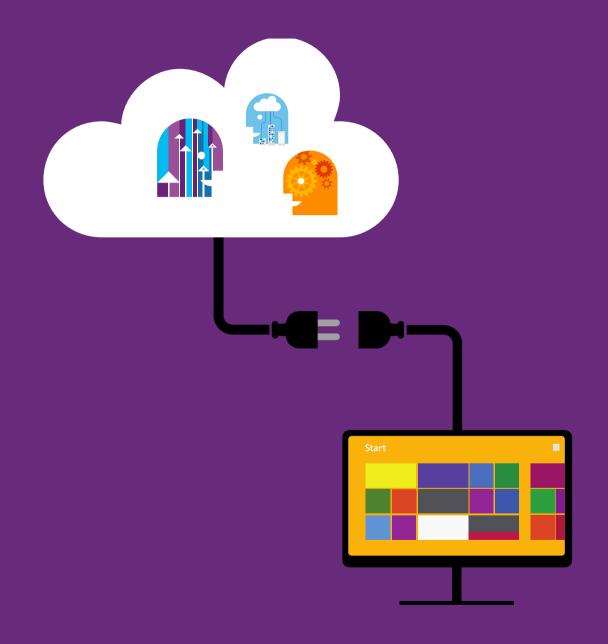
DEVELOP + TEST

Once the iteration starts, developers turn great ideas into features
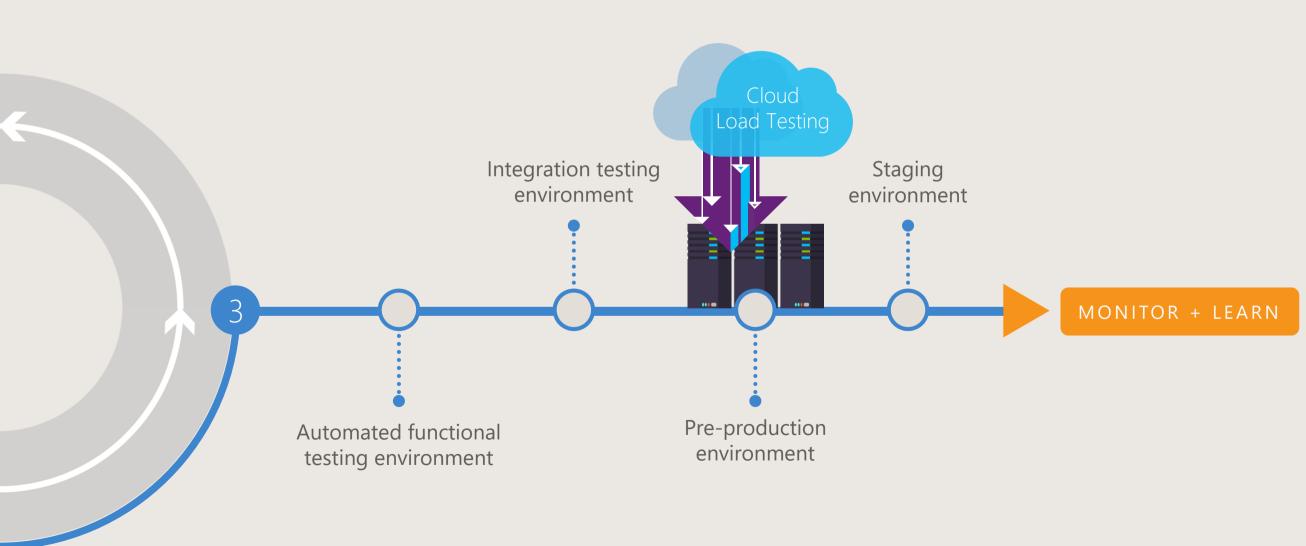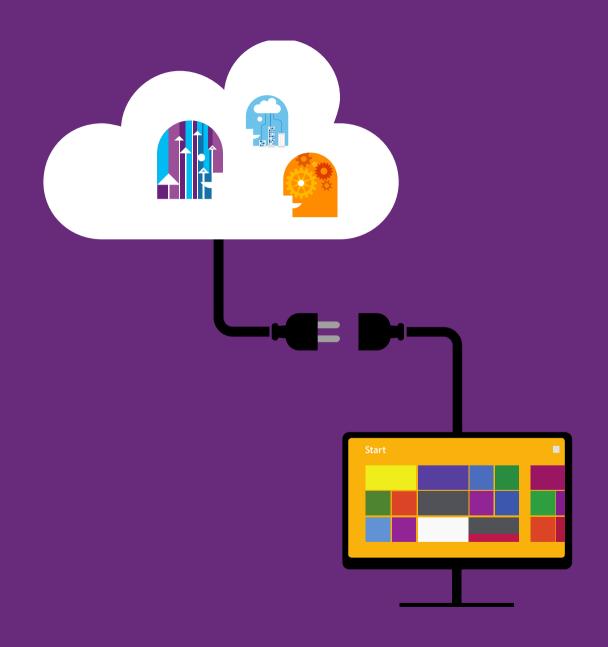
2

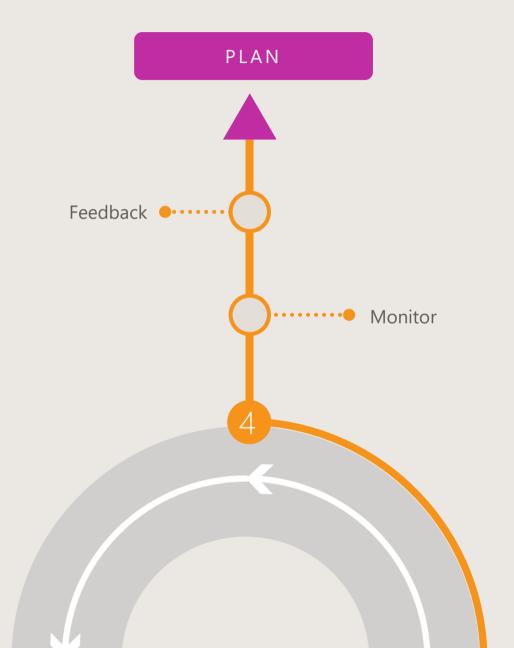Write Code

Unit Testing

Version Control

Build

Build Verification

RELEASE

DEMO

Develop + Test
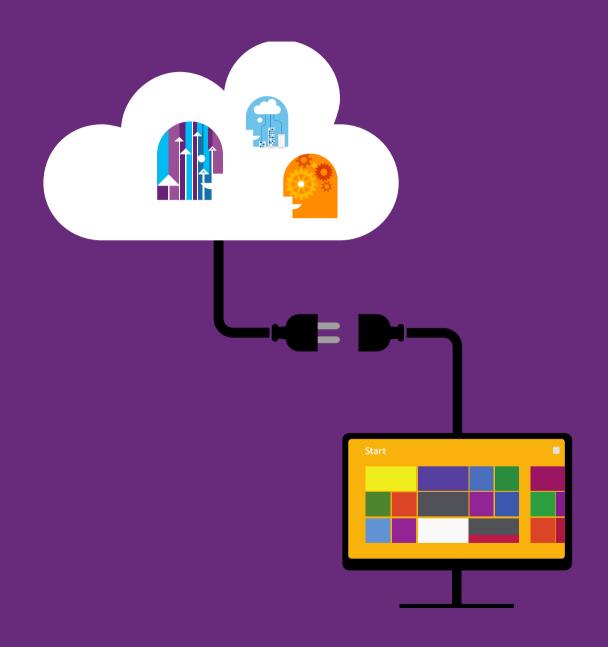
DEMO

Release

PLAN

Feedback

Monitor

4

MONITOR+LEARN

Learn and understand how users use your app, how it performs and quickly fix issues and bugs
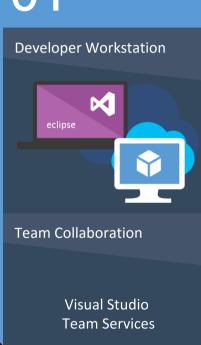
DEMO
Application Insights

IN REVIEW

OLD WORLD

Focus on planning

Compete, not collaborate

Static hierarchies

Assumptions, not data

NEW WORLD

Focus on delivering

Collaborate to win

Fluid and flexible teams

Experiment, learn and respond

RESOURCES

- Visual Studio Team Services (VSTS)
  www.visualstudio.com/

- Microsoft's DevOps Journey
  http://stories.visualstudio.com/devops/

- Puppet Labs 2016 State of DevOps Report
  https://puppet.com/resources/white-paper/2016-state-of-devops-report

- Microsoft Azure
  https://azure.microsoft.com/

- DevOps Self Assessment
  http://devopsassessment.azurewebsites.net/

Jason Poon

github.com/jpoon

@jasonthepoon

jason.poon@microsoft.com