

# Continuous delivery

## Xamarin + VSTS

(using Xamarin TestCloud and HockeyApp)



ZEBASTIAN BERG, AVANTIME

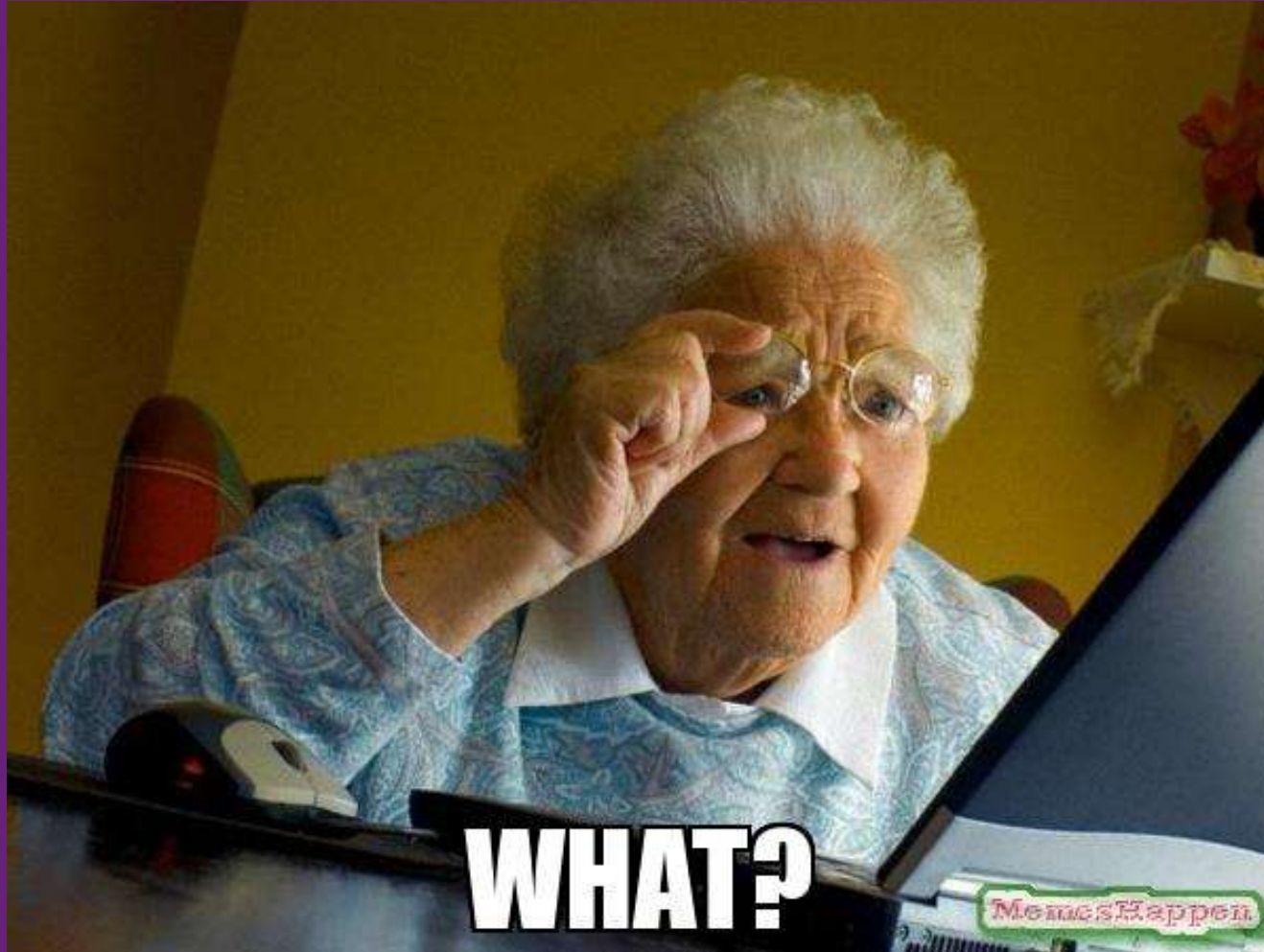


# Agenda

- What is CI/CD?
- Why do we want it?
- What tools can we use?
- How do we do it? (demo)
- Questions / Discussion



# Continuous ....?....



# Continuous Integration

Wikipedia – *"In software engineering, continuous integration (CI) is the practice of merging all developer working copies to a shared mainline several times a day."*

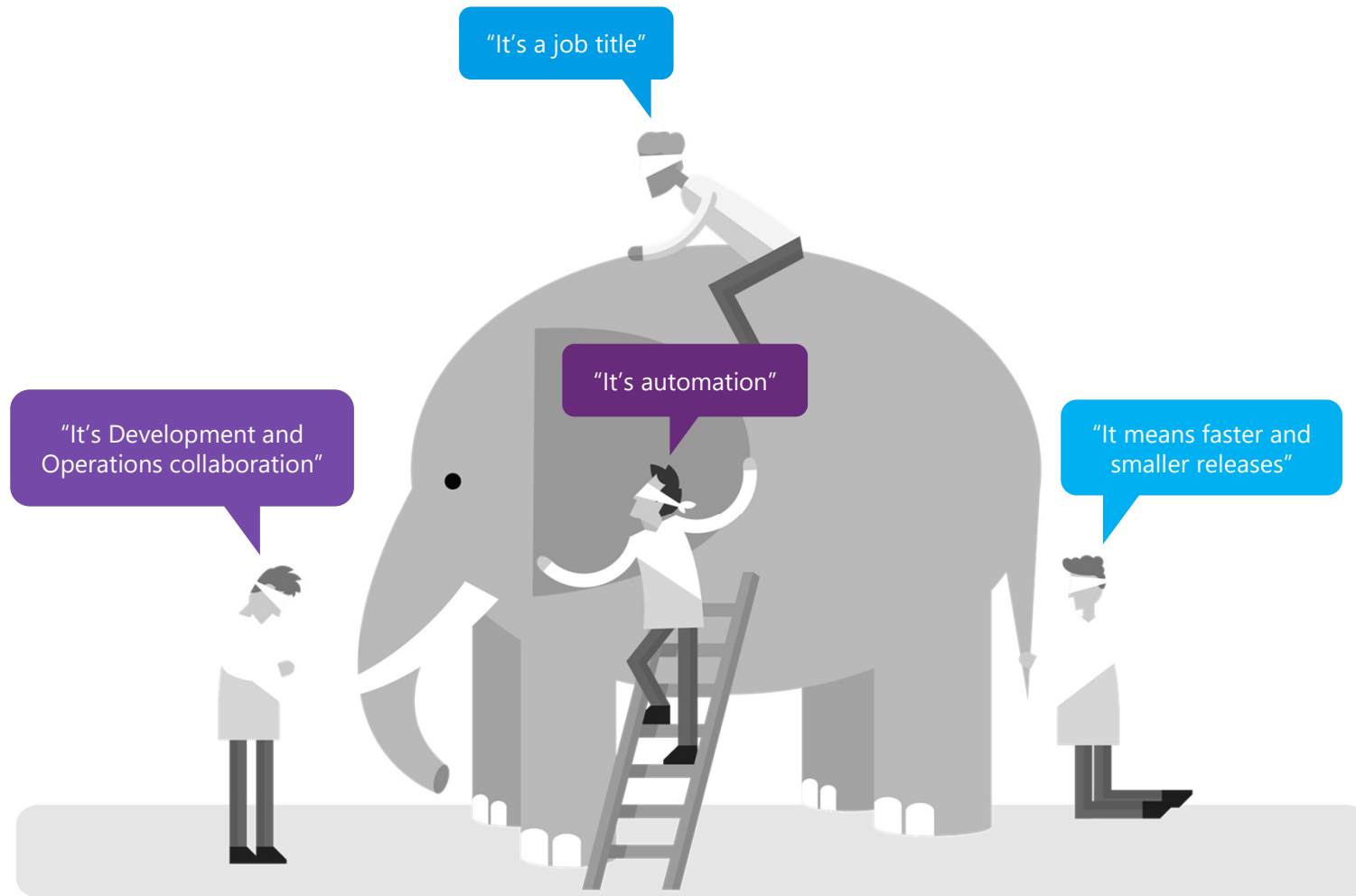
Codeship – *"CI is a development practice where developers integrate code into a shared repository frequently, preferably several times a day. Each integration can then be verified by an automated build and automated tests."*

# Continuous Delivery

Wikipedia – “CD is a software engineering approach in which teams produce software in short cycles, ensuring that the software can be reliably released at any time. It aims at building, testing, and releasing software faster and more frequently. The approach helps reduce the cost, time, and risk of delivering changes by allowing for more incremental updates to applications in production. A straightforward and repeatable deployment process is important for continuous delivery.

Codeship – “CD is the practice of keeping your codebase deployable at any point. Beyond making sure your application passes automated tests it has to have all the configuration necessary to push it into production. Many teams then do push changes that pass the automated tests into a test or production environment immediately to ensure a fast development loop.”

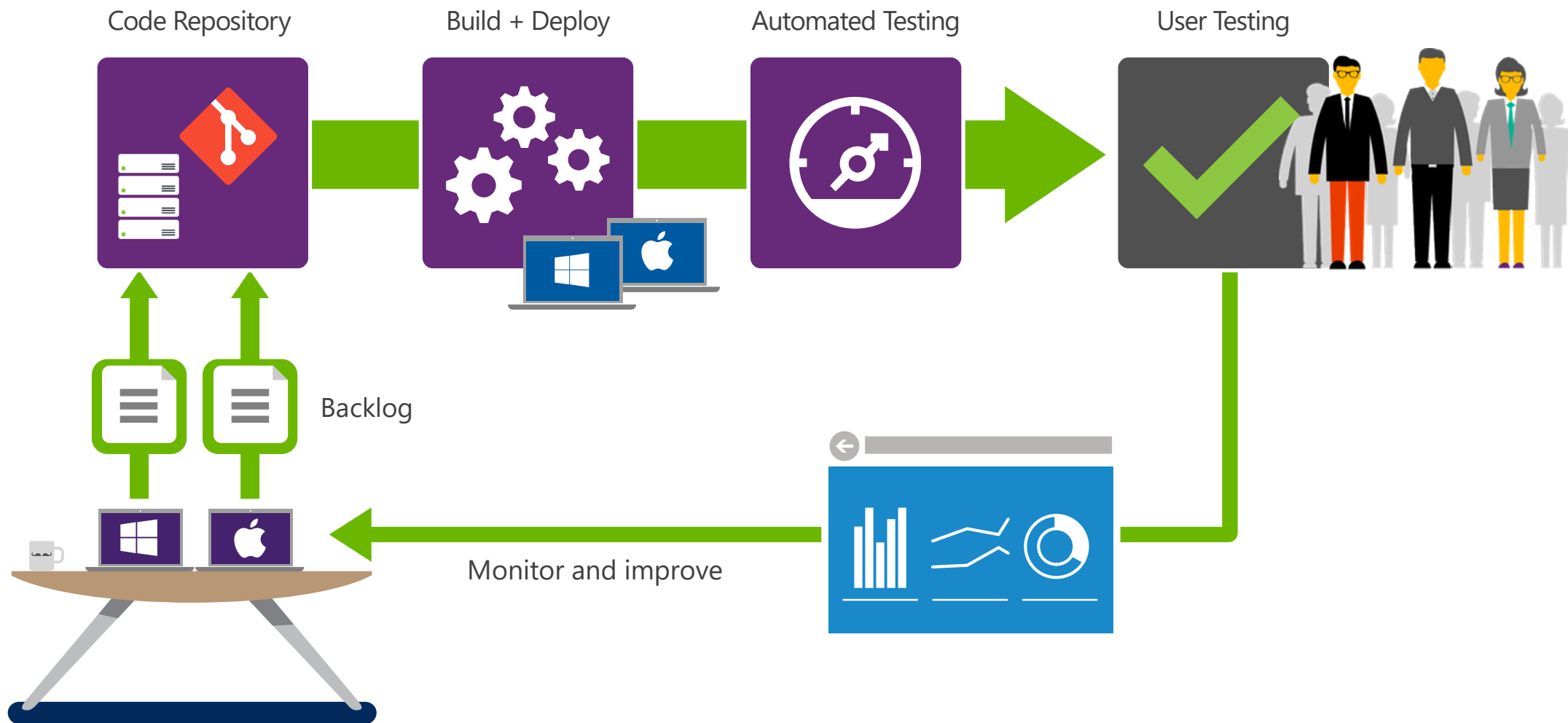
# What is DevOps?



# DevOps – Wikipedia

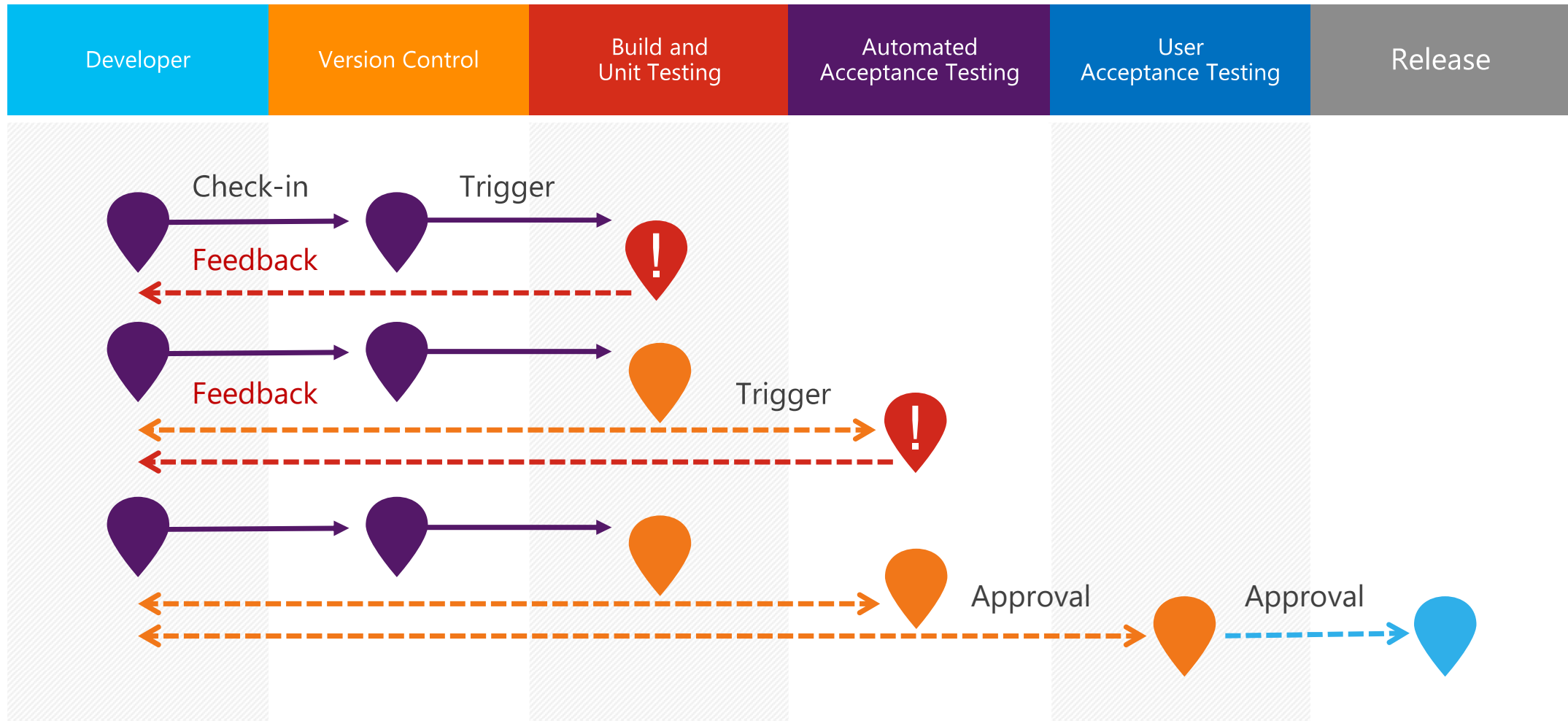
*"DevOps (a clipped compound of software DEvelopment and "information technology OPerationS) is a term used to refer to a set of practices that emphasize the collaboration and communication of both software developers and information technology (IT) professionals while automating the process of software delivery and infrastructure changes. It aims at establishing a culture and environment where building, testing, and releasing software can happen rapidly, frequently, and more reliably."*

# CI and CD





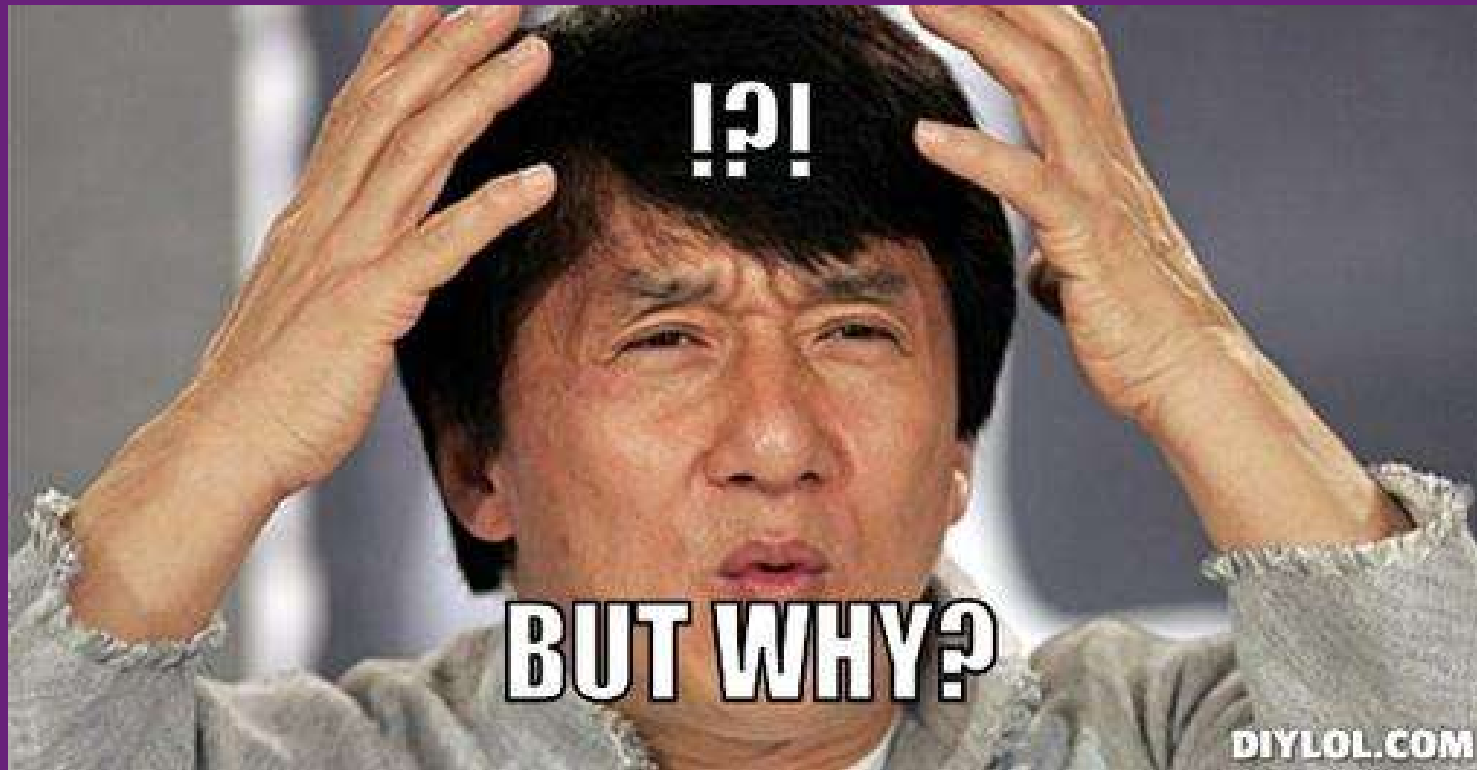
# Enabling continuous value delivery



# Tools

- Xamarin
- VSTS
- Xamarin Test Cloud
- HockeyApp

Why....?....



# Why.....?.....

- Suits agile development
- Lets developer focus on code, not release/test
- Enables testers to test more often/quicker
- Helps project managers to track progress

# Demo...



Questions?

# Thank you!

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