

# Building & Releasing with Azure DevOps

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Andrew Fletcher | Liam Fletcher

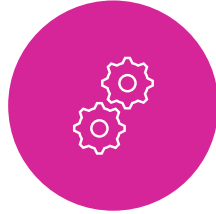
# Agenda



INTRODUCTIONS



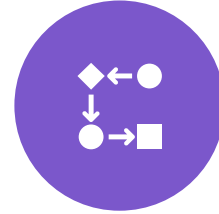
OUR AIM



DEVOPS



CI & CD



PROCESS &  
PARTS



WALKTHROUGH



RECAP



Q&A

# Heading



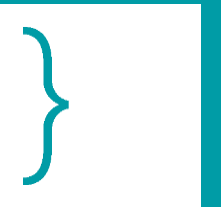
- Andrew Fletcher
- Senior Software Engineer. .Net/C#/Azure
- Keen interest in all things Cloud



- Liam Fletcher
- Level 4 Computer Science @ QUB, QCS Committee member
- Part-time Software Engineer

# { Our Aim

What do you know about...

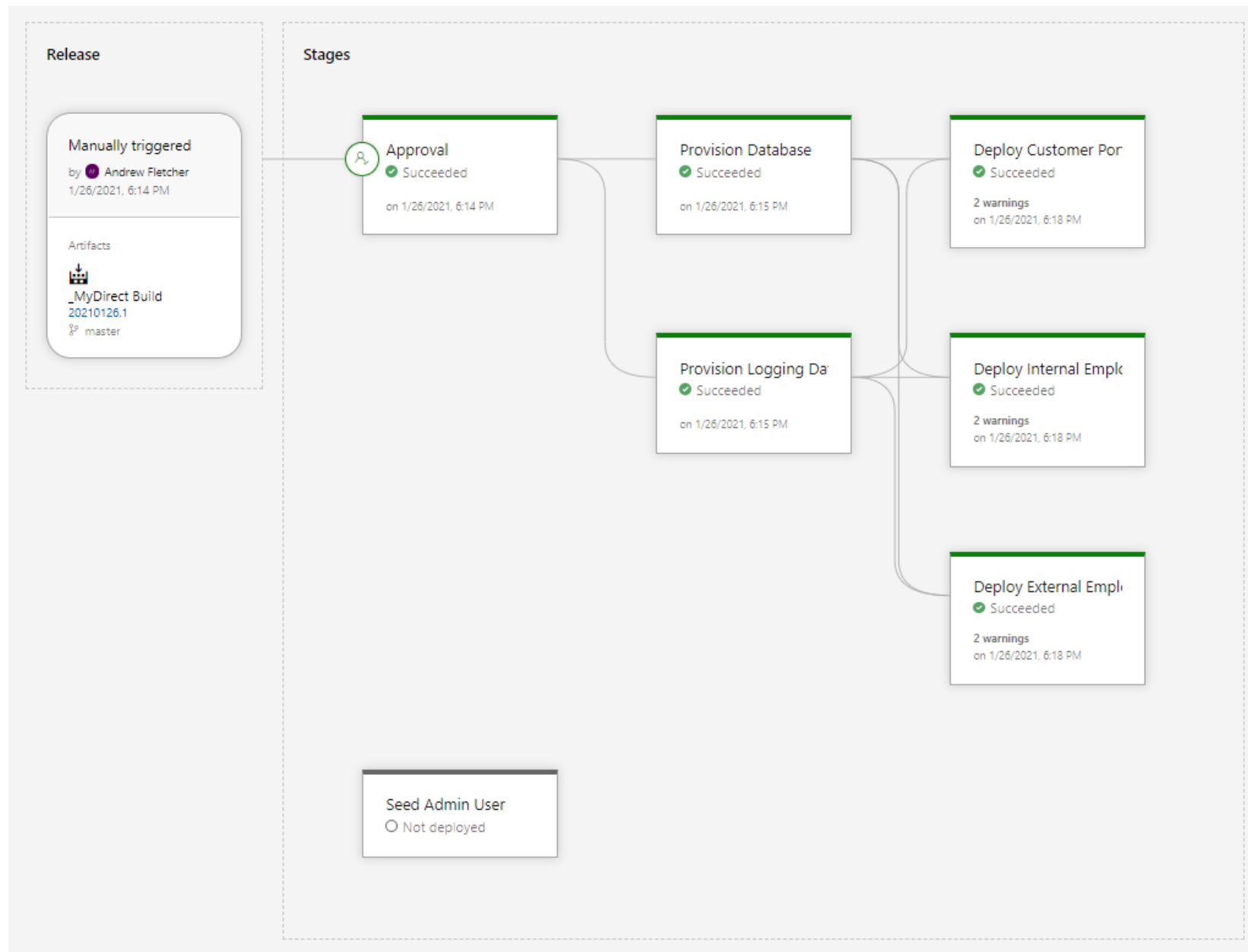


We've built  
the next big  
thing...



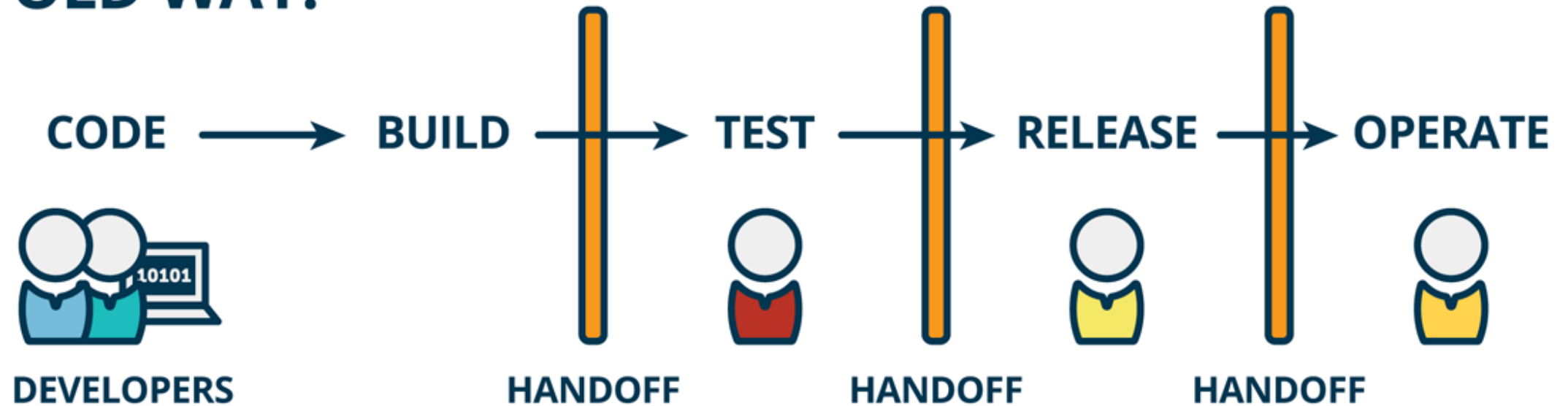
# Now, how do we deploy it?





# DevOps

## OLD WAY:

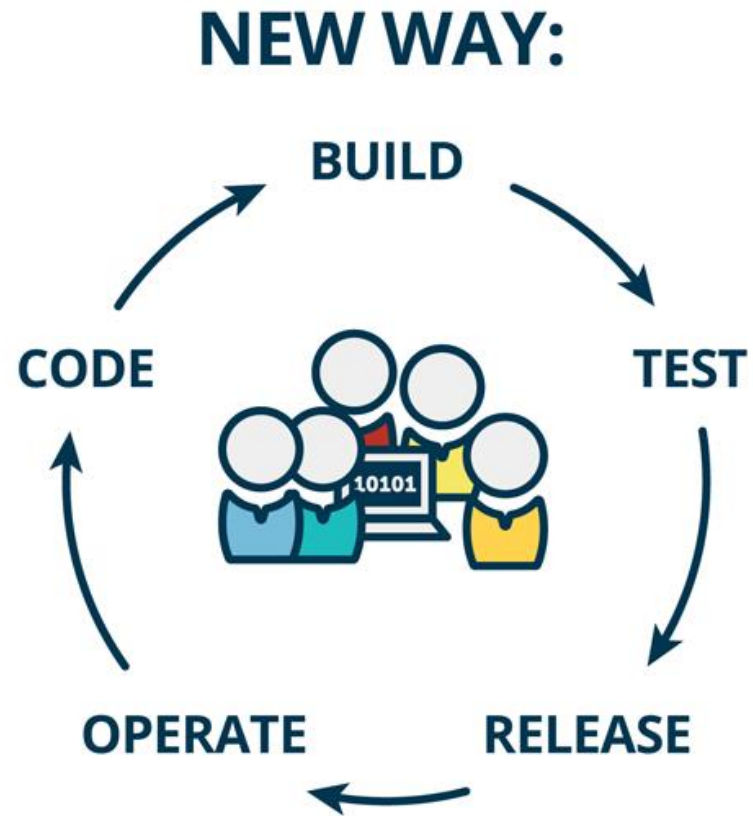




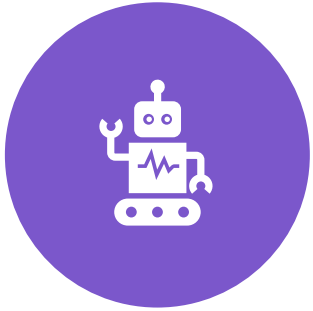
# DevOps

—\\_ (ツ) \\_ /—  
**IT WORKS**  
on my machine

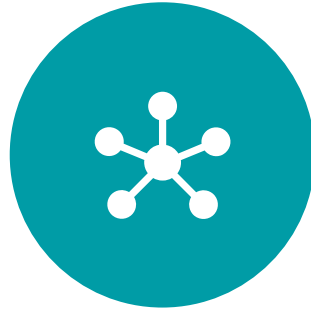
# DevOps



# What is it all about?



AUTOMATE



INTEGRATE



REPRODUCIBLE



EVERYTHING AS  
CODE

# Continuous Integration & Continuous Delivery

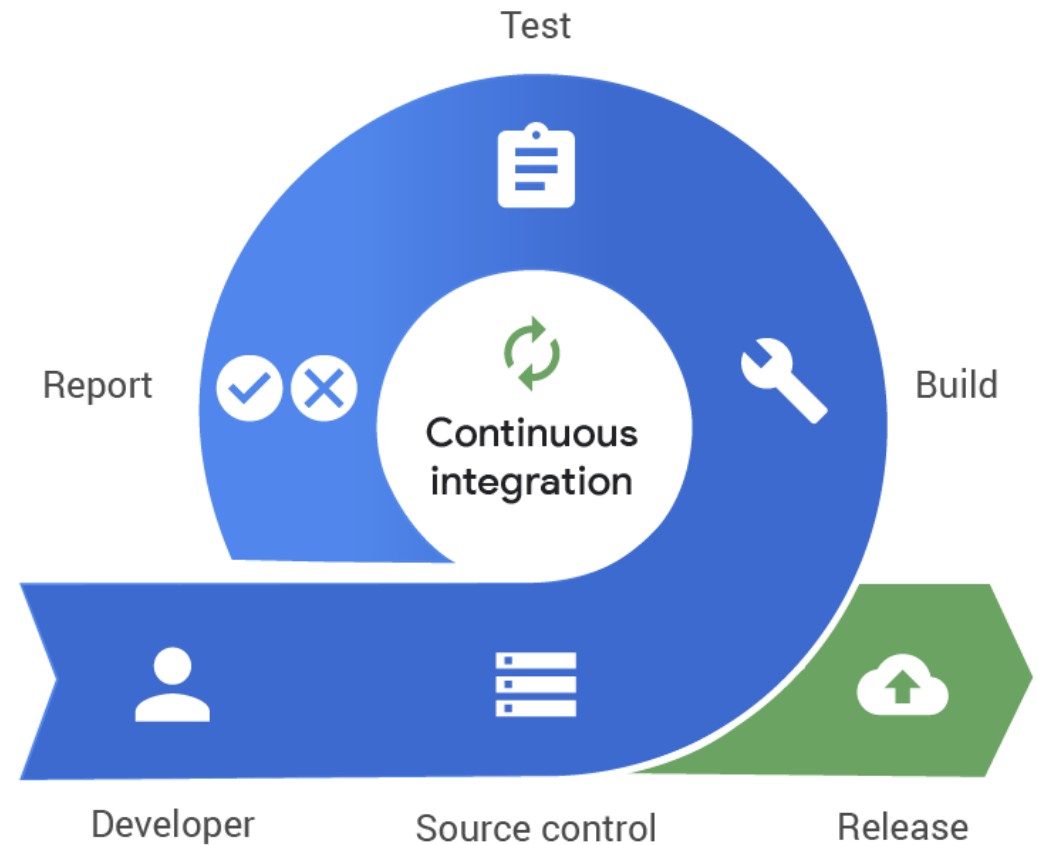


- **Continuous Integration**

- Automatic process to build, test and package the code as changes are made

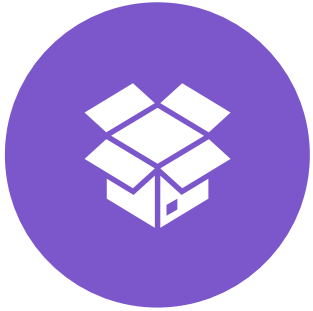
- **Continuous Deployment**

- Automatic process to take built packages and deploy them



# The Components

What do we need to make all this possible?



CODE IN A  
REPOSITORY



BUILD & RELEASE  
SCRIPTS



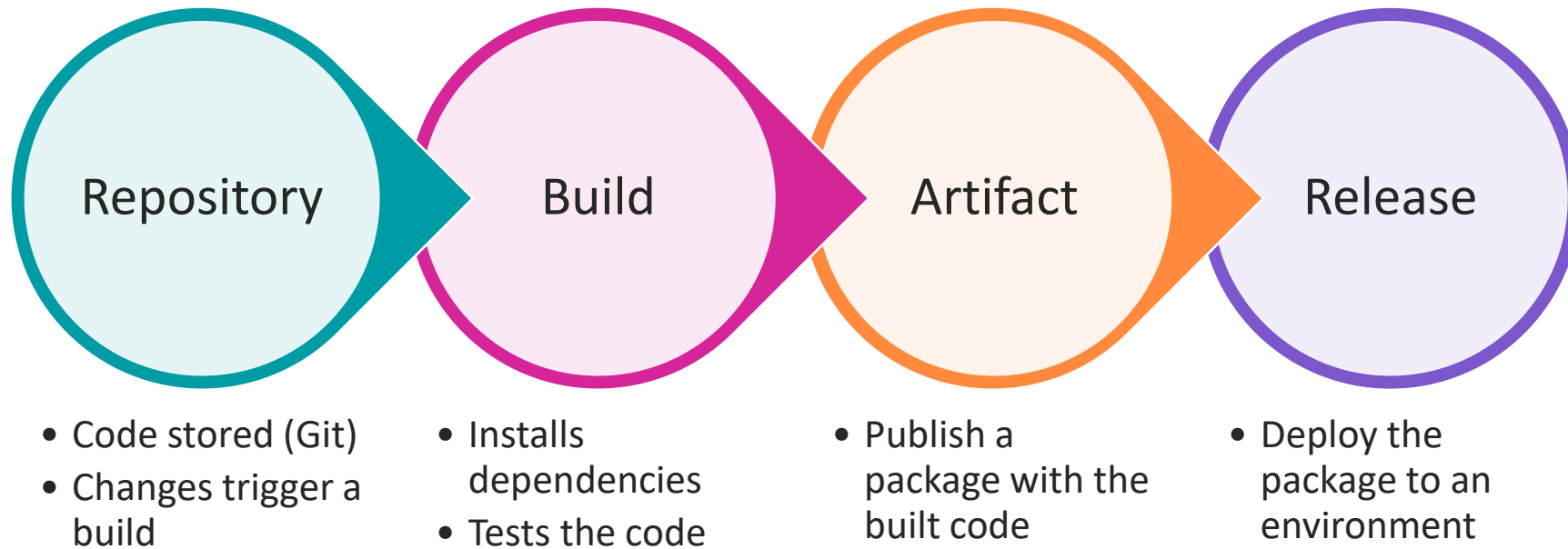
CLOUD /  
ENVIRONMENT



TOOLING

# The Process

What steps are involved in a CI/CD build & release pipeline?



Occurs using a reproduceable, scripted process.

# Walkthrough

Lets take a look

# Walkthrough

## { Our scenario

Deploy a “Hello World” Web Application to the Microsoft Azure Cloud using Azure DevOps





# Pre-requisites



- Microsoft Azure
- Available for free as a student
- <https://azure.microsoft.com/en-us/free/students/>



- Microsoft Azure DevOps
- Basic Tier available for free!
- <https://azure.microsoft.com/en-us/services/devops>

# Recap

Looking back...

# Thanks for listening!