

Dead Simple DevOps

How to Launch a Cloud Native Custom API
in 60 Minutes or Less

Global Azure Bootcamp

April 27, 2019

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Agenda

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Introduction

What is
DevOps?

Type2Tools

Demo

Conclusion

Introduction

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Introduction

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What This Is

- Brief introduction to DevOps at a high level
- Presentation of fictitious company trying to launch a web site
- Demo of Building the Site on Azure and Azure DevOps

What This Is NOT

- A full DevOps 101
- A silver bullet

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Why Listen to Me?

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- West Point graduate
- Led 50+ teams, sized from 3 to 150+
- DevOps Coach
- Multiple DevOps transformations at household name clients
- “Honest broker”

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What is DevOps?

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DevOps is a Transformation

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People

Culture

Training

Expert Help

Process

Workflow

Automation

Tools

SCM/VCS

Pipelines

Testing

Config

Etc...

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Collaborate

Build

Test

Deploy

Run

Application Lifecycle Mgmt.



Communication & ChatOps



Knowledge Sharing



SCM/VCS



CI



Build



Database Management



Testing



Artefact Management



Deployment



Config Mgmt./Provisioning



Cloud / IaaS / PaaS



Orchestration & Scheduling



BI / Monitoring / Logging



Leadership

People

Culture

Training

Expert Help

Process

Workflow

Automation

Tools

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Config

Etc...

Communication

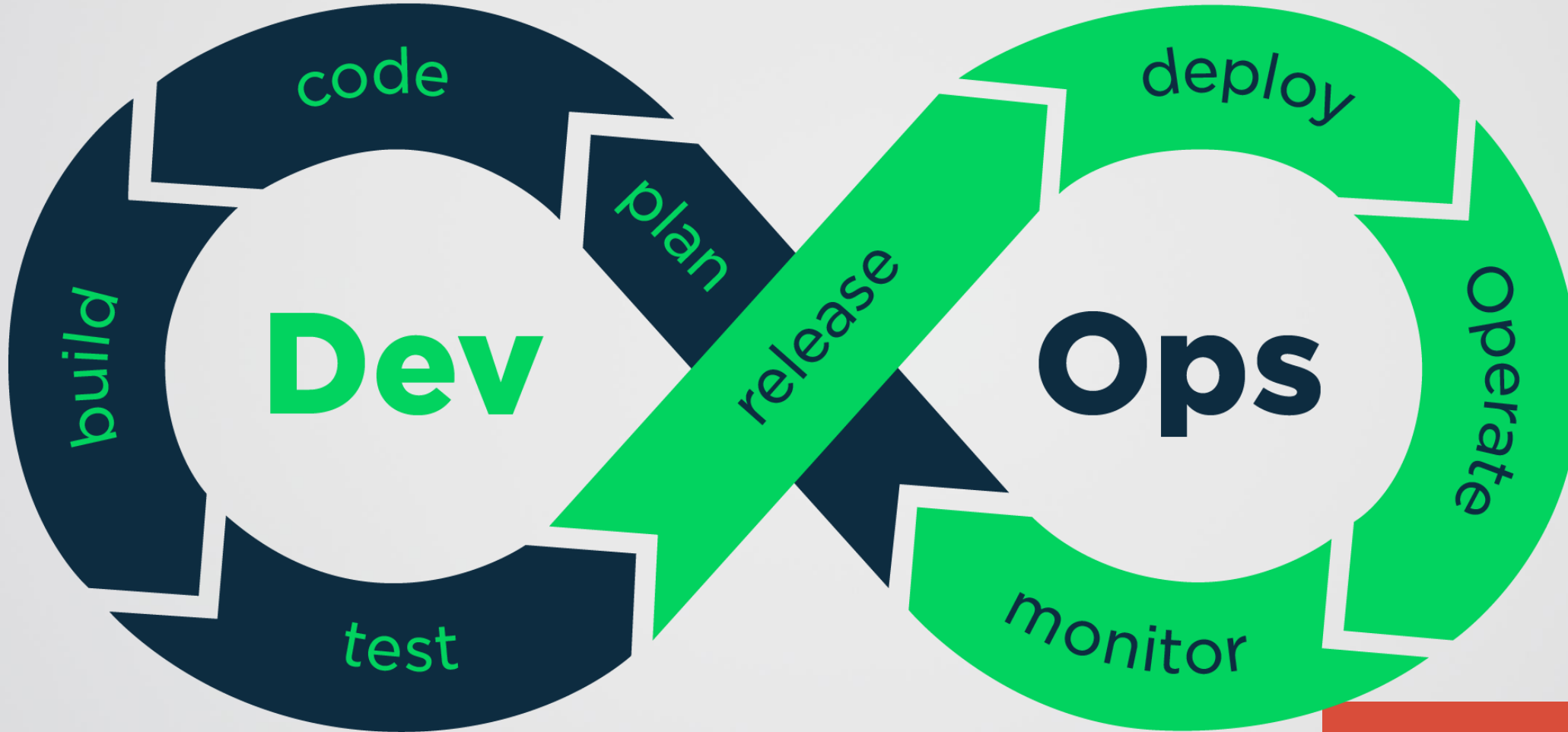
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The Infinity Loop

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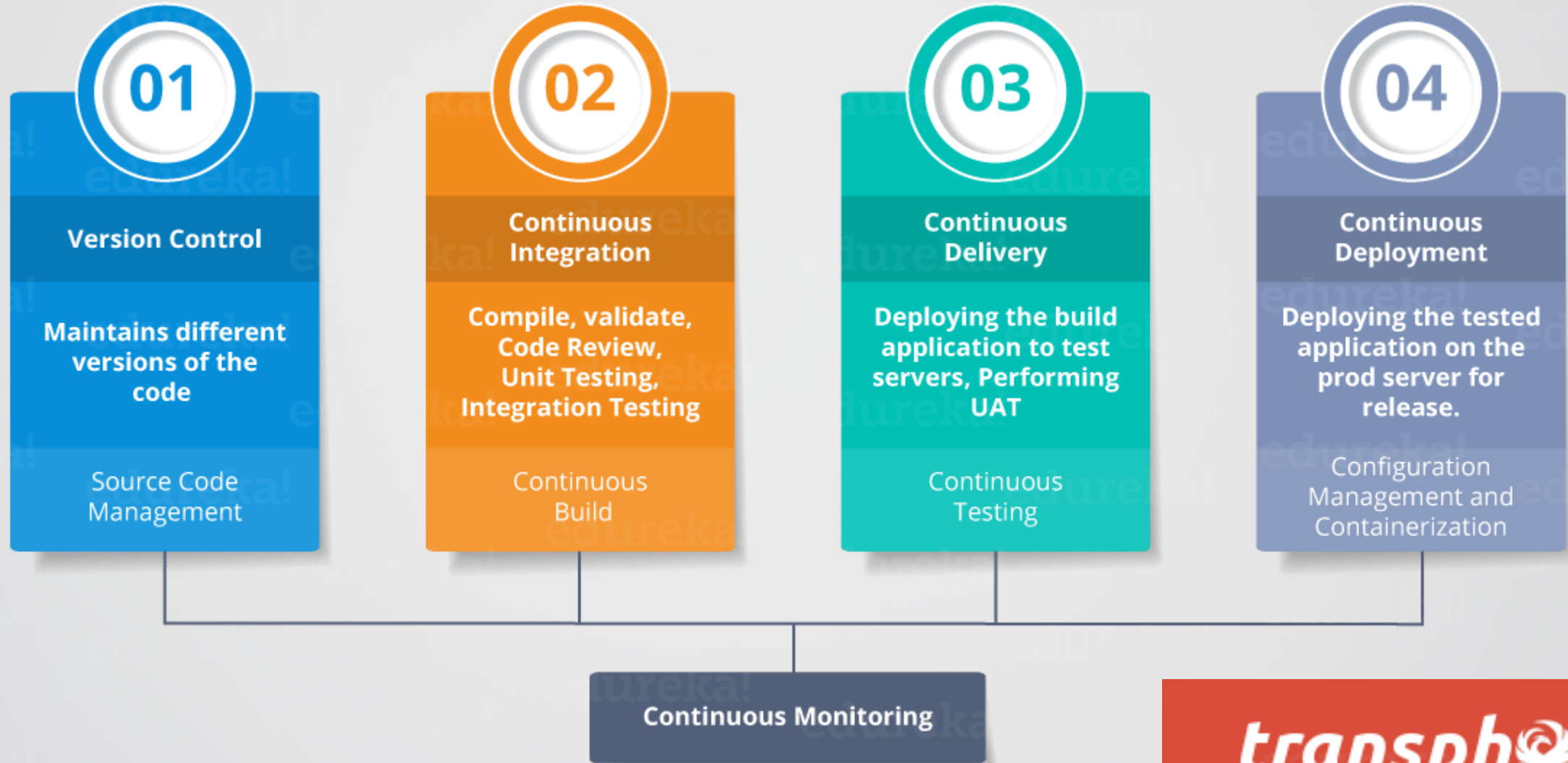


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CI / CD / CD

edureka!



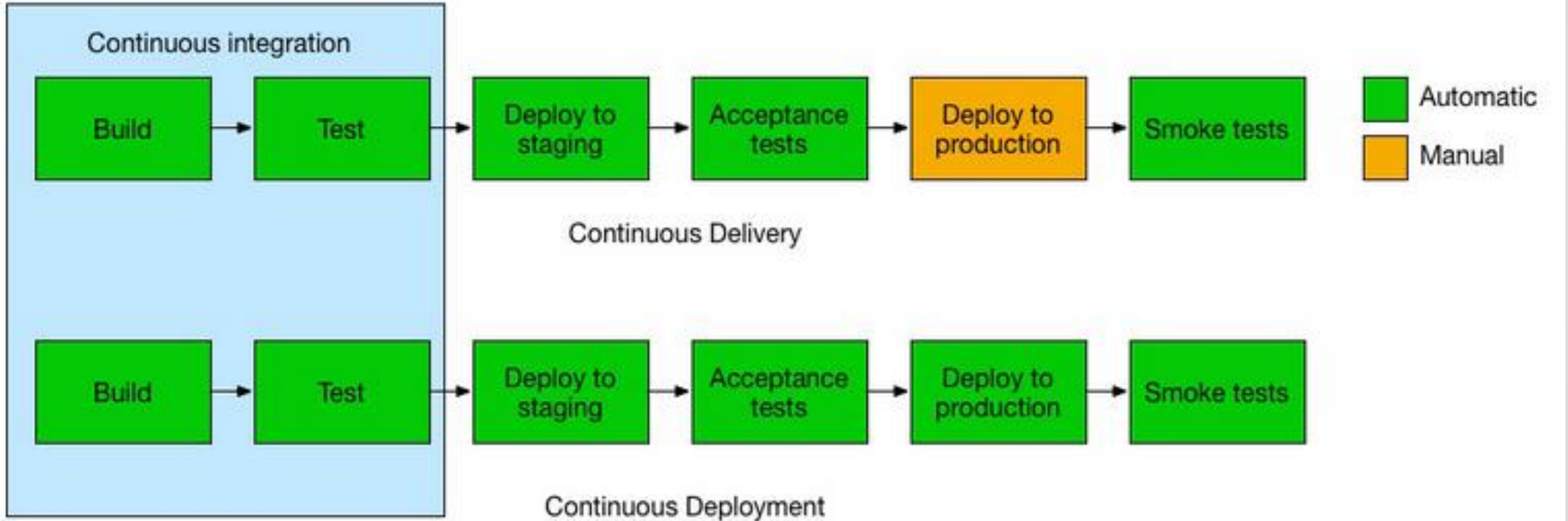
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CI / CD / CD

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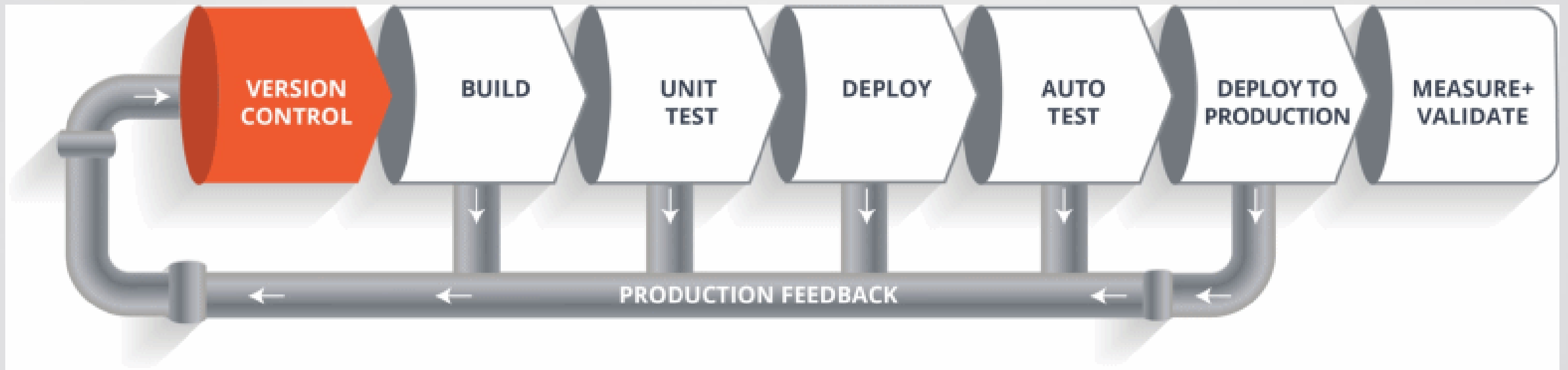


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Pipelines

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Type2Tools

Problem Domain

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- Type2 Diabetics can Enter Sugars and Weights
- Modern App Architecture
 - API
 - Front End
 - Back End
- Cloud Solution
- Low cost of entry
- Fast delivery (maybe even 60 minutes)

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Components

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- Backend
 - MongoDB
 - Azure Ubuntu 18.04 LTS VM
- API
 - NodeJS
 - Restify
 - Mongoose
 - JWT
 - GUIDs

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Demo

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Conclusion

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Next Steps

- Consume the API – Web, iOS, Android, Windows
- Monetization
 - Affiliate Programs
 - Advertising
 - Subscription Service
- Upgrades
 - Security – MongoDB, API, etc.
 - RG Deployment (ARM) Project
 - Microservices / Containers
 - Serverless
 - Message/Event-driven Code

DevOps is a Transformation

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3 Pillars

Leadership

Communication

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Building a Culture of Excellence

- Excellence in DevOps, as all things, can start anywhere in the organization and radiate out.
- Build empowered, self-organizing teams.
- Hoard blame.
- Share credit.

More Information

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