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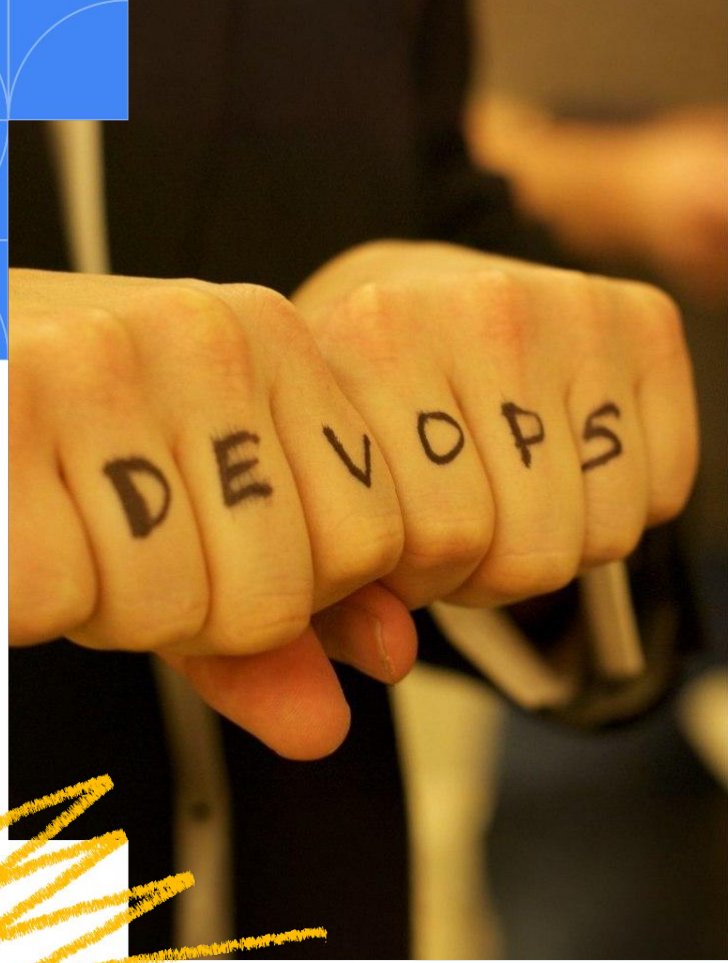
Importance of DevOps in Modern Software Development Lifecycle



KUNAL DAS

DevOps Lead @ Tiger Analytics

MS in Data Science @ LJMU

HashiCorp Certified Terraform Associate

Microsoft Certified DevOps Expert

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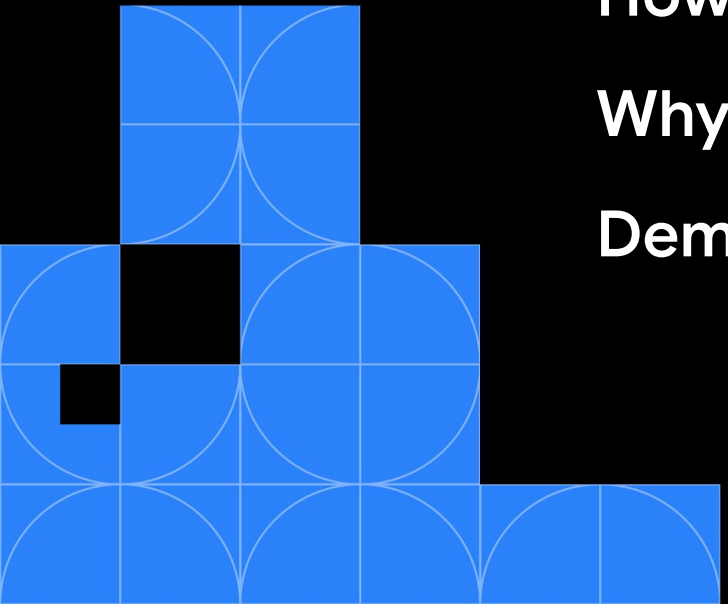
Agenda

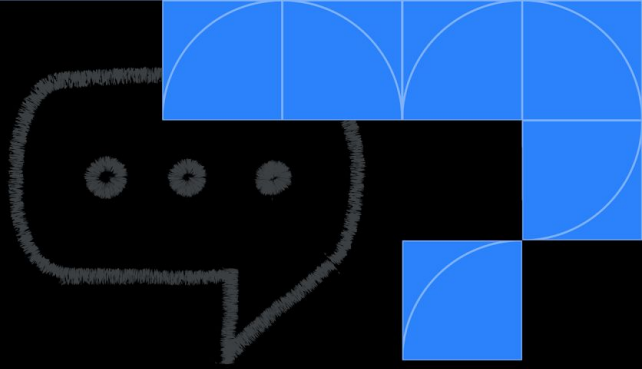
What?

How?

Why?

Demo





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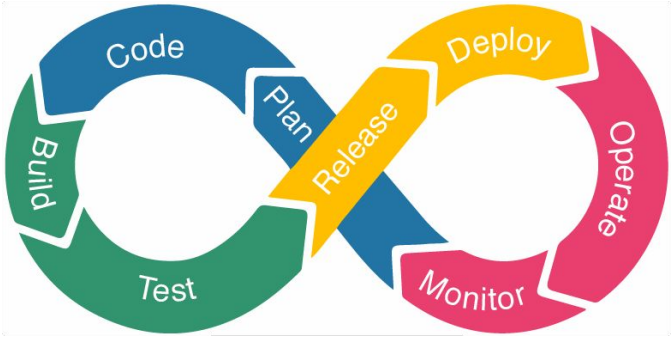
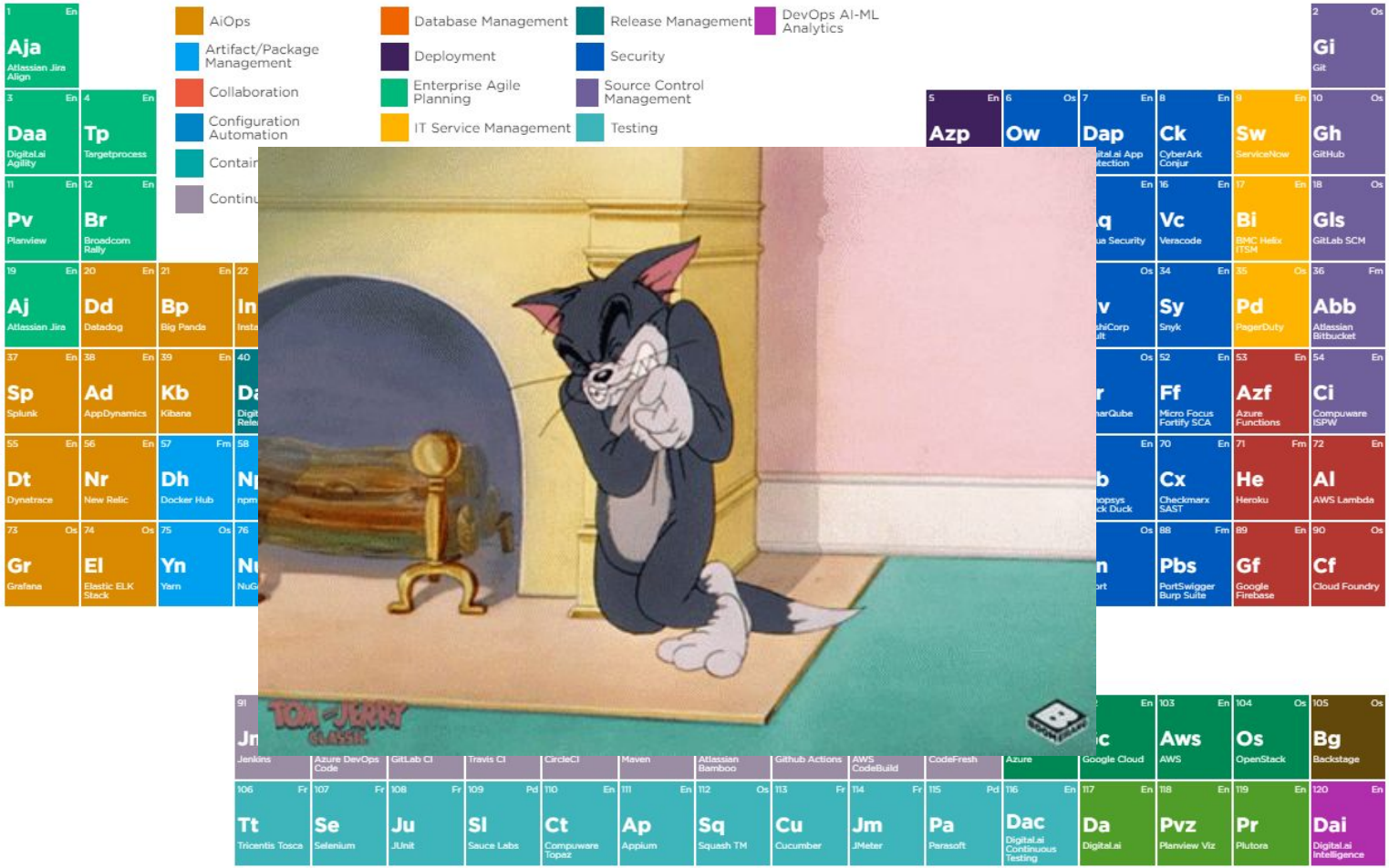
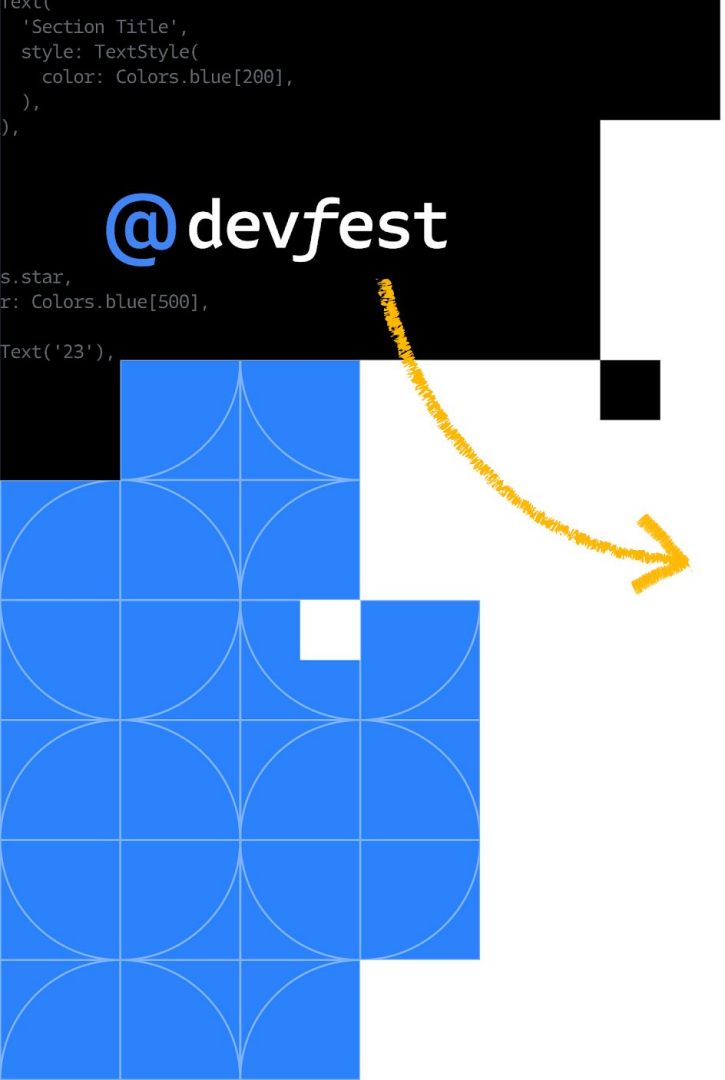
“DevOps merges development and operations to automate processes.”

~ChatGPT





[Periodic Table of DevSecOps Tools | Digital.ai]



Continuous Integration & Deployment

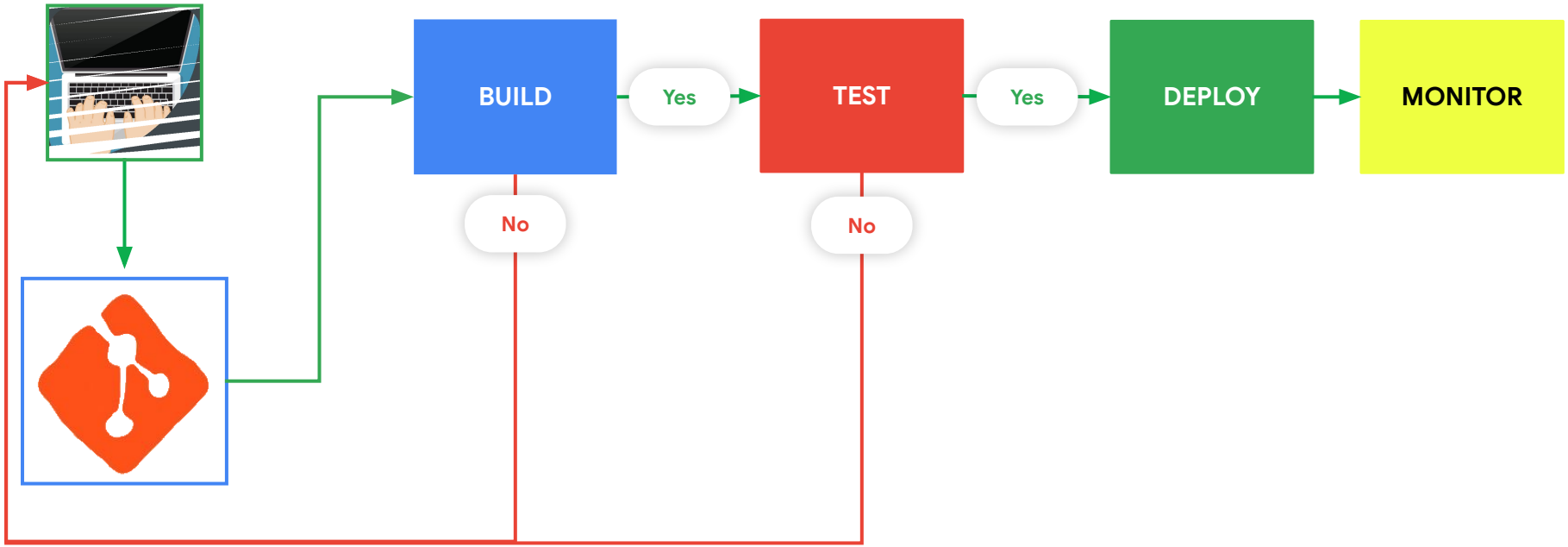
Continuous Integration (CI) involves developers regularly merging code changes into a central repository, followed by automated tests.

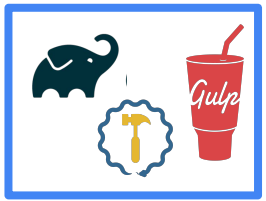
Continuous Deployment (CD) automatically releases code to environments after it passes tests.

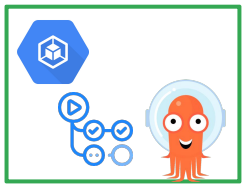
The Overview

Continuous Integration

Continuous Deployment







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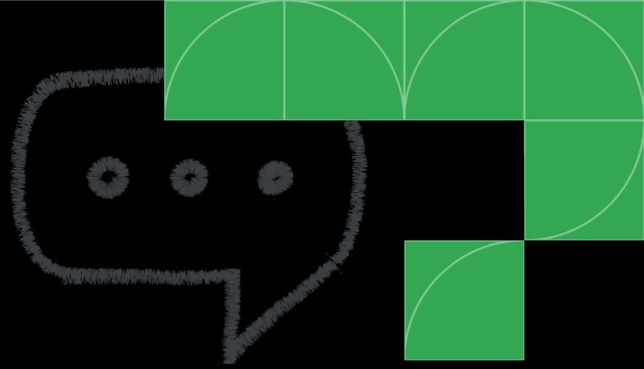

DEMO

About

22%

of conference attendees don't fully grasp the presented topics.

~A Made up Stat

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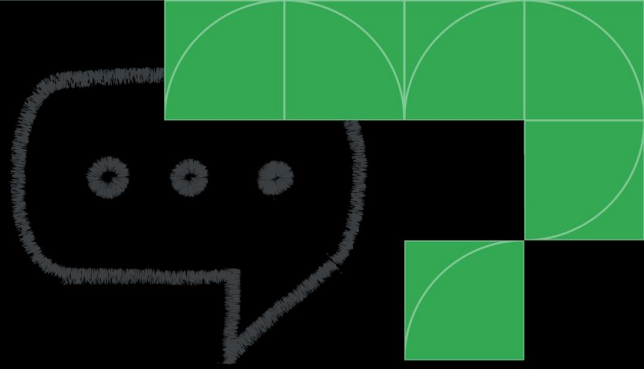
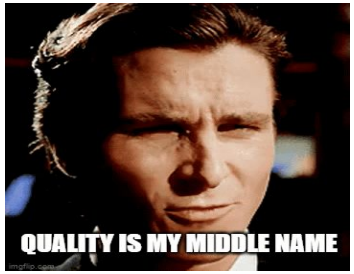


DEMO

BENEFITS

- ❑ Faster Deployment
- ❑ Improved Collaboration
- ❑ Increased Efficiency
- ❑ Higher Quality Software



CHALLENGES

- ❑ Cultural Change
- ❑ Continuous Testing
- ❑ Security Concerns
- ❑ Skill Shortage

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Any Questions?

Thank You

Keep the conversations going!