



# **Exploring a DevOps Transformation Like a Tester**

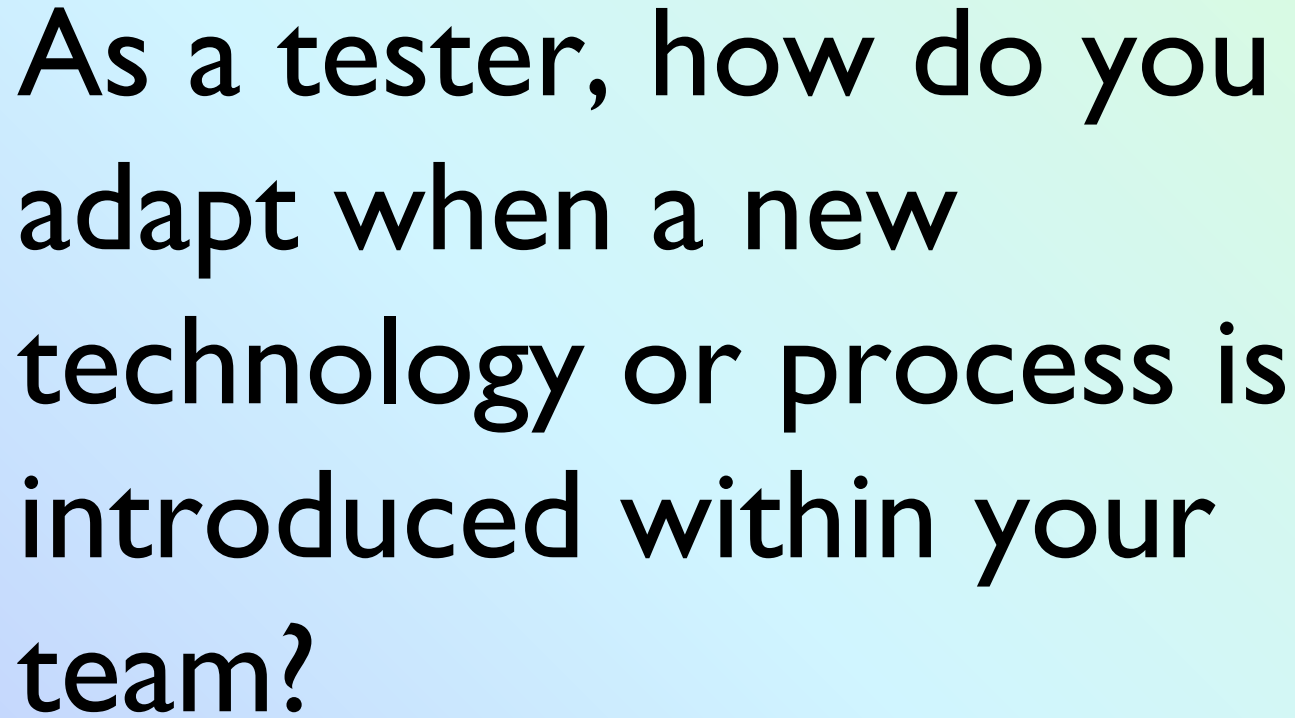
# Hello!

I am **Parveen Khan**

Senior Test Engineer at **Scott Logic**

You can find me at  
[@Parveen\\_Khan10](#)



A large speech bubble with a black outline and a white fill, set against a light blue background. The text inside is in a bold, black, sans-serif font. The bubble has a tail pointing towards the top-left corner.

As a tester, how do you adapt when a new technology or process is introduced within your team?

**Do you  
research?**





**Do you accept  
it as a  
challenge?**



# Do you reach out community?





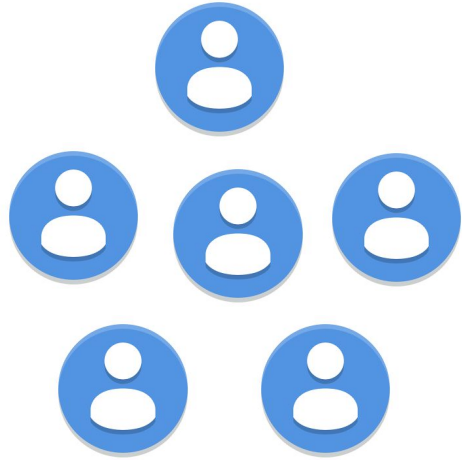
Transitioned from  
waterfall to agile



**“ We took baby steps**





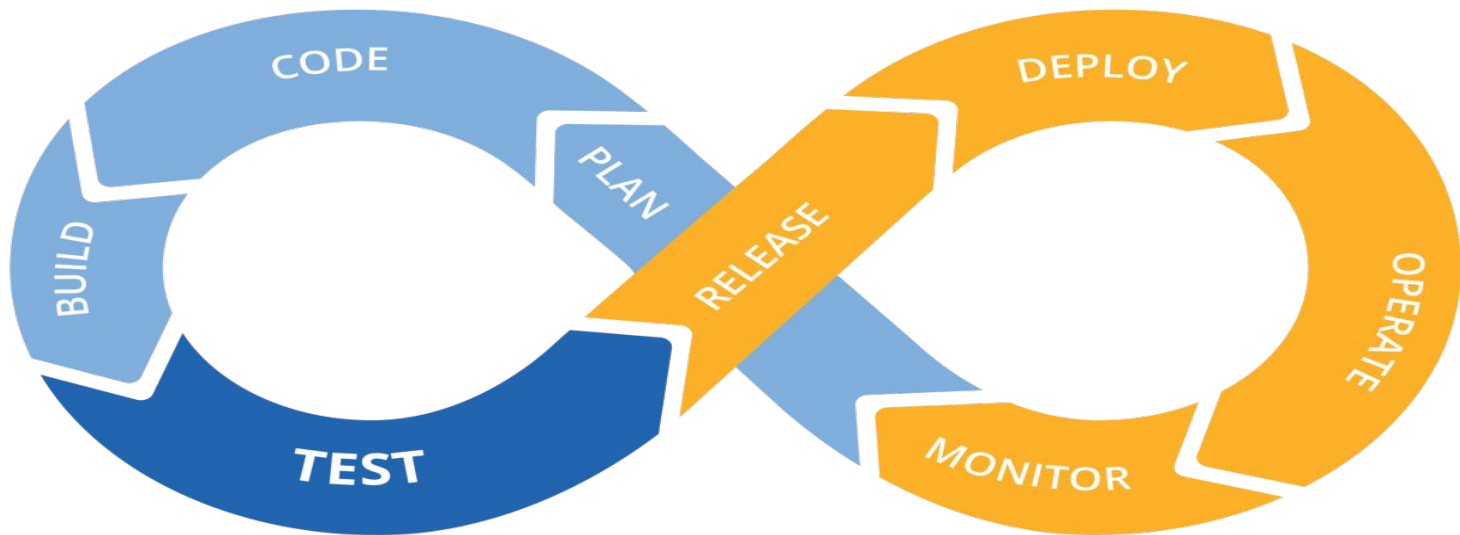


Silo



Whole team



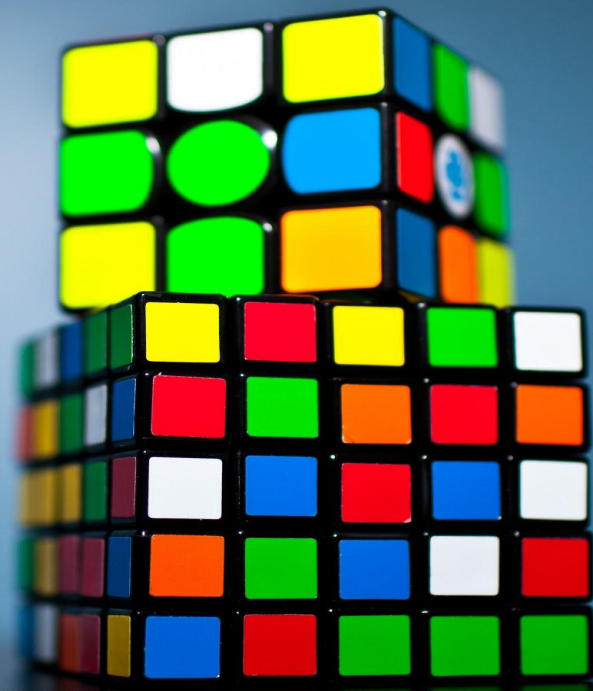




# Introduction to the world of pipelines!











Why '**Scary**'?





# Explore



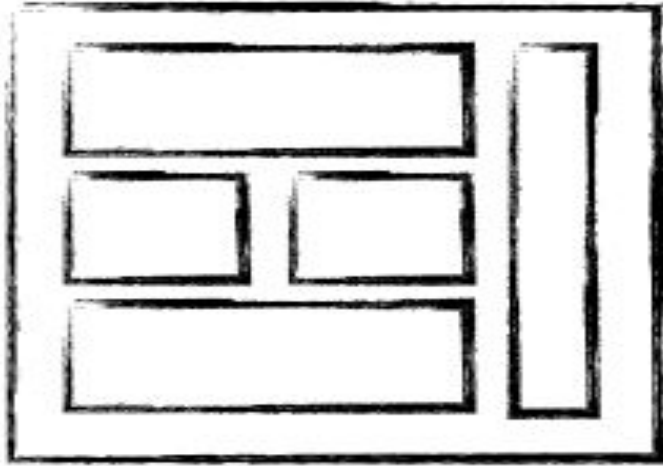




# Why Devops?



# | Why DevOps?



MONOLITHIC/LAYERED



MICRO SERVICES



# Need for speed



It was a new buzzword



# | What is DevOps?



“ **DevOps** is a term used to refer to a set of practices that emphasizes the collaboration and communication of both software developers and other information-technology (IT) professionals while automating the process of software delivery and infrastructure changes.

Wikipedia





# What is Continuous Integration?

***Continuous Integration*** is a software development practice where **members of a team integrate their work frequently**; usually, each person integrates at least daily... Each integration **is verified by an automated build...** to detect integration errors **as quickly as possible**.

**Martin Fowler**

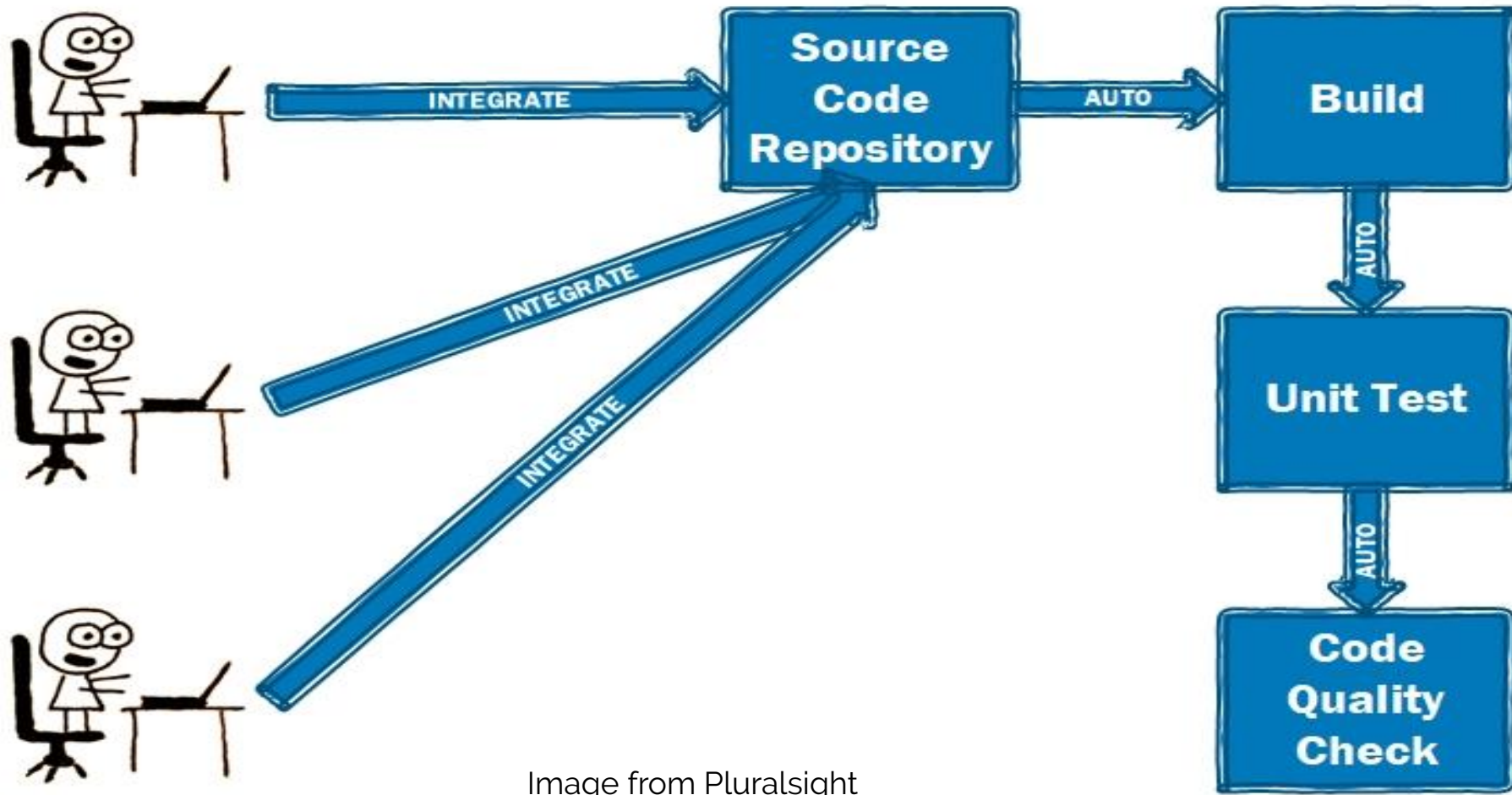


Image from Pluralsight



And next questions followed...





**Docker**

**Pipelines**

**Shift left**

**Feature  
Toggles**

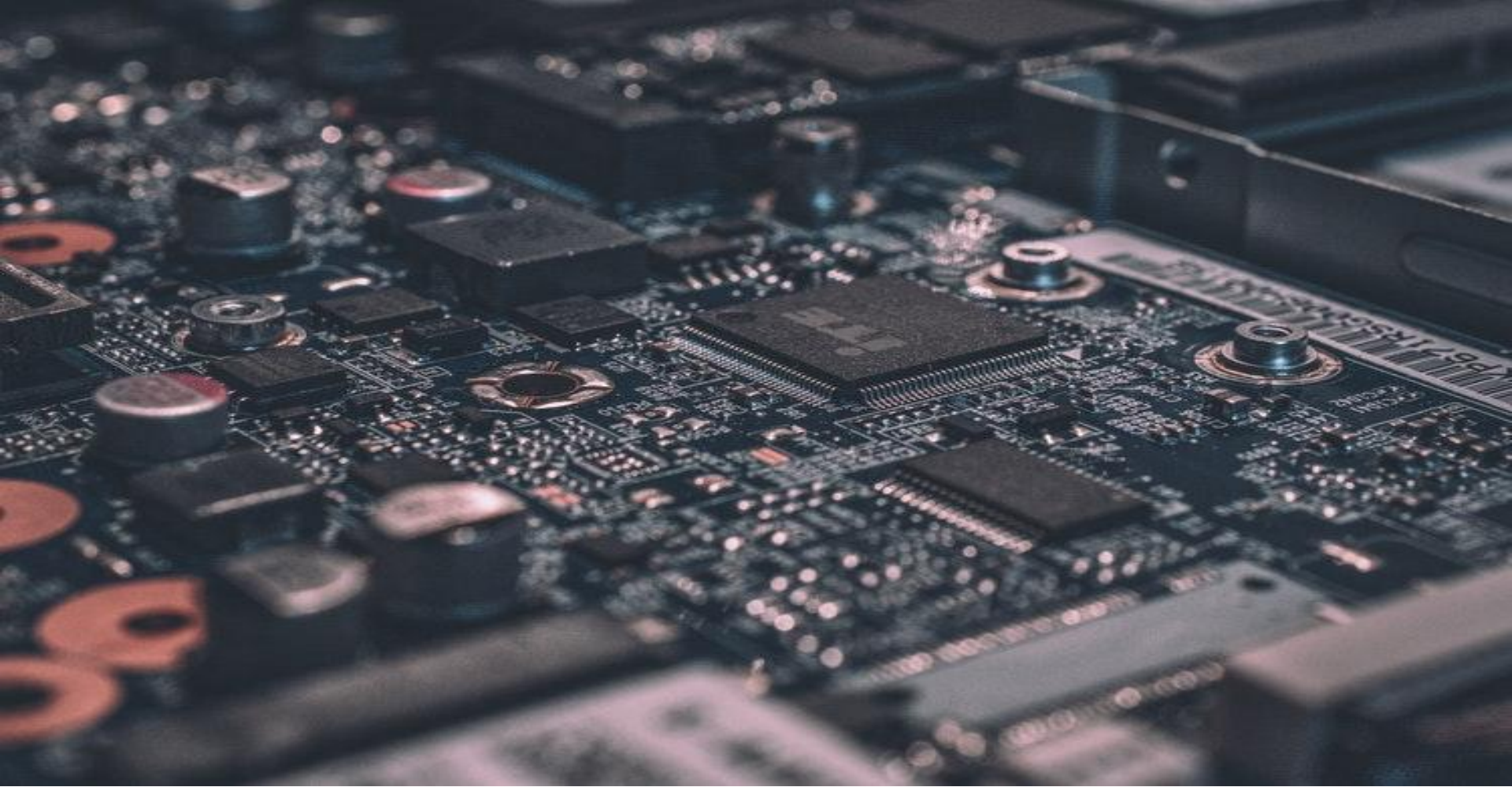















*Let's*

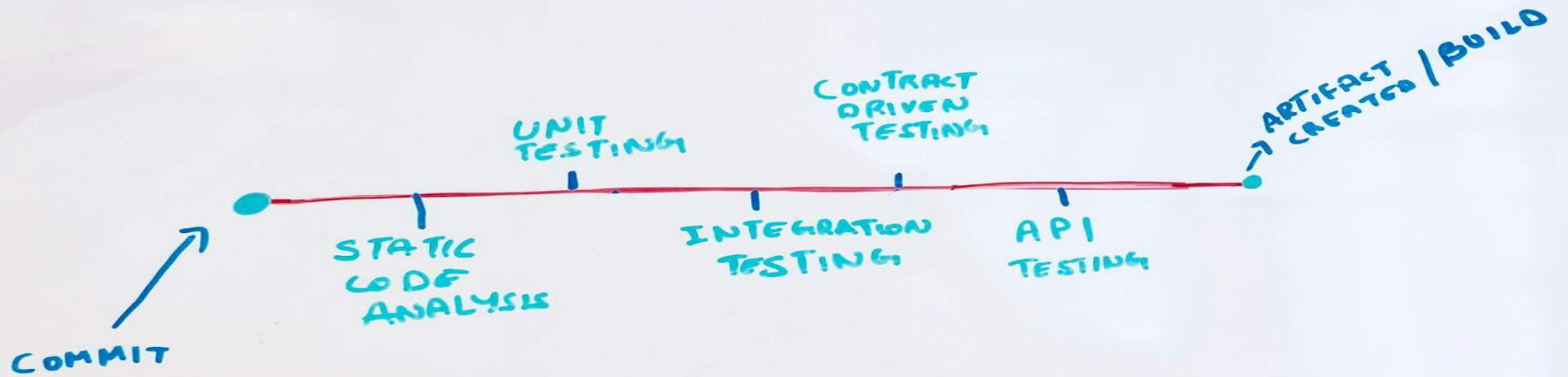
**UNCOVER THE FACTS**

*Together...*

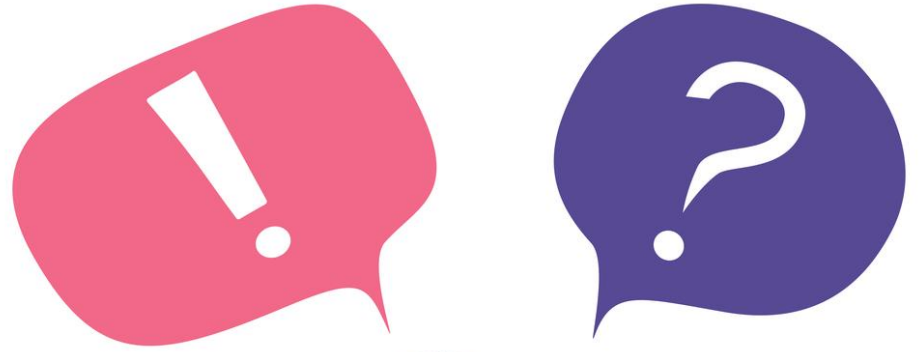
**| Lets visualise!!**

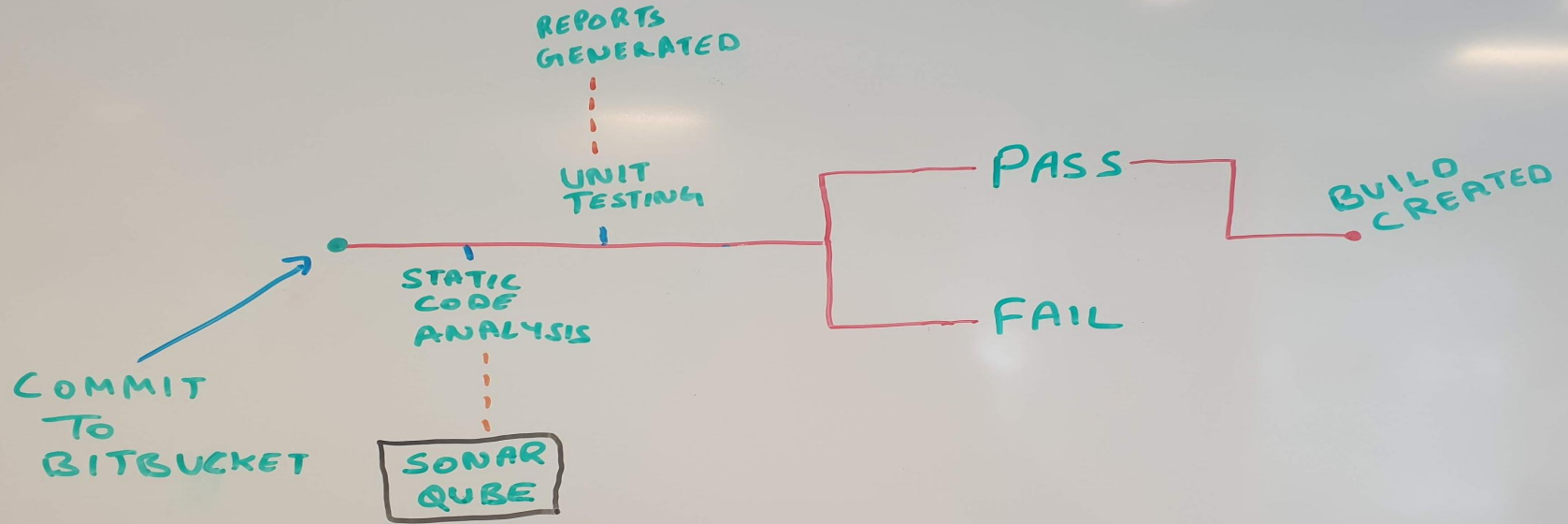






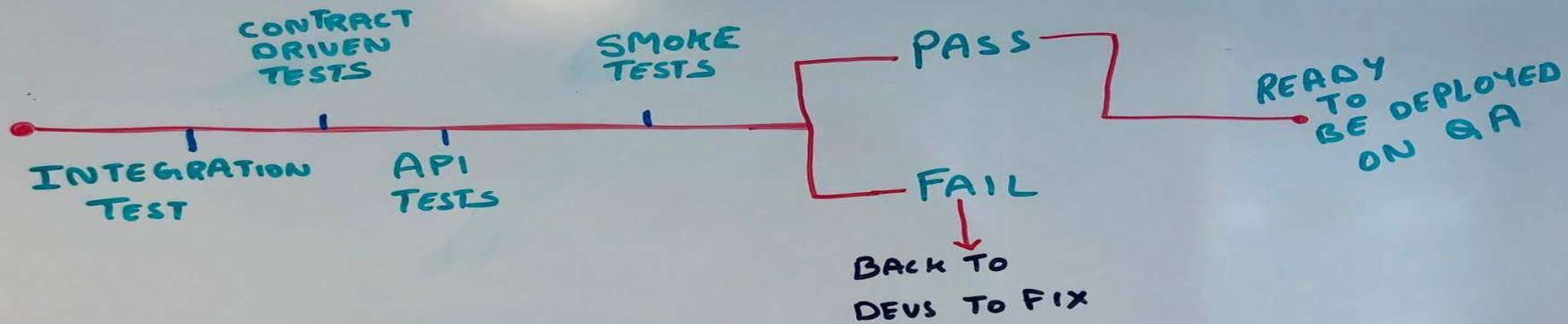
Next questions...





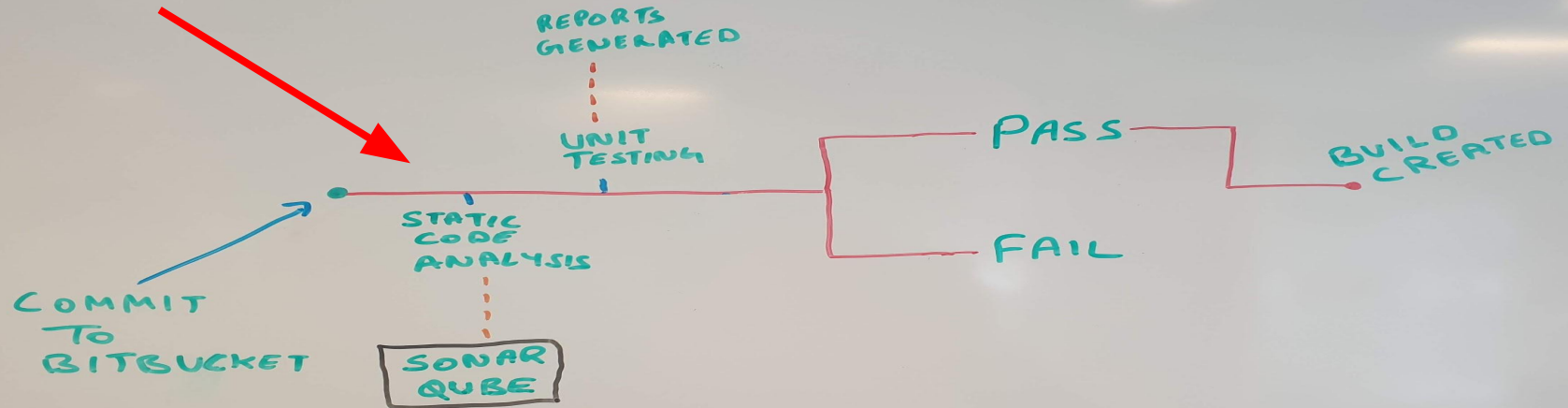
## PRE-DEPLOY PIPELINE



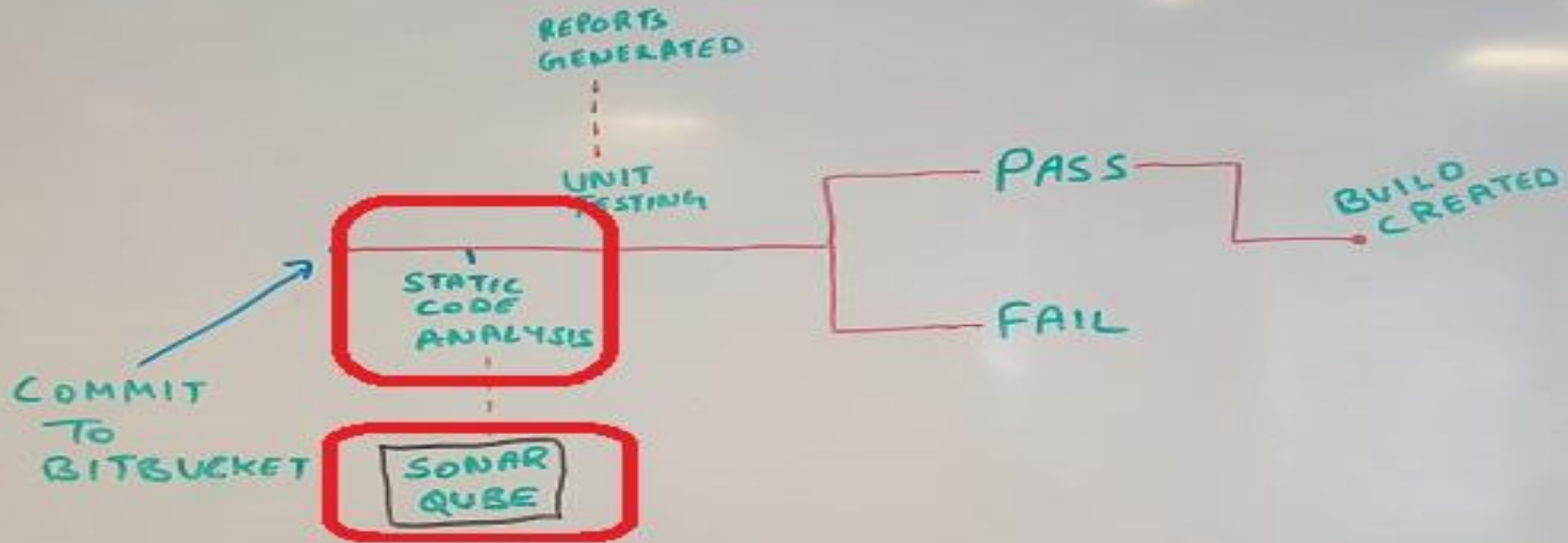


## POST-DEPLOY PIPELINE

# Explored pre deploy pipeline



PRE-DEPLOY  
PIPELINE



PRE-DEPLOY  
PIPELINE

```
1 <!-- meta -->
2 <!-- title -->
3 <meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1.0, user-scalable=no" />
4 <link rel="shortcut icon" href="/favicon.ico" type="image/x-icon" />
5 <link rel="icon" href="/favicon.ico" type="image/x-icon" />
6 <!-- CSS -->
7 <link type="text/css" rel="stylesheet" href="css/materialize.min.css" />
8 <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/font-awesome/4.7.0/css/font-awesome.min.css" />
9 <link rel="stylesheet" href="css/animate.css" />
10 <link rel="stylesheet" href="css/theme.css" />
11 </head>
12 <body>
13 <!-- banner -->
14 <div class="banner">
15 <nav class="nav">
16 <div class="nav-wrapper">
17 <div class="container">
18 <a href="#" class="brand-logo hide-on-med-and-up"><img alt="brand logo" /></a>
19 </div>
20 </div>
21 </div>
22 <div class="container">
23 <div class="row">
24 <div class="col s12 m8 l8 hide-on-small-only">
25 <div class="network">
26 <div class="row">
27 <div class="col s12 m6 l6">
28 <div class="card">
29 <div class="card-content">
30 <div class="card-title">
31 <h3>Network 1</h3>
32 </div>
33 <div class="card-text">
34 <p>This is a card with some text inside. It can be styled with different colors and fonts. It can also have a background image or a gradient. It can be used to display information, lists, or even small forms. It's a versatile component in Bootstrap 4.</p>
35 </div>
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```





Quality Gate

Passed

Bugs

Vulnerabilities

Leak Period: since 7.1.1-SNAPSHOT  
started 2 months ago

4

Bugs

11

Vulnerabilities

0

New Bugs

2

New Vulnerabilities

Code Smells

67d

Debt  
started 7 years ago

2.6k

Code Smells

2d

New Debt

58

New Code Smells

Coverage



90.1%

Coverage

18k

Unit Tests

87.4%

Coverage on  
5.3k New Lines to Cover

Quality Gate

Passed

Bugs

Vulnerabilities

Leak Period: since previous version started 2 months ago

0

A

Bugs

0

A

Vulnerabilities

0

A

New Bugs

0

A

New Vulnerabilities

Code Smells

0

A

Debt

started 2 months ago

0

Code Smells

0

A

New Debt

0

New Code Smells

Coverage



14.3%

Coverage

2

Unit Tests

—

Coverage on New Code



A green rectangular sign with rounded corners and a white border, mounted on two wooden posts. The sign features the text "Next Step" in a bold, white, sans-serif font. The background is a bright blue sky with scattered white clouds. The sign is tilted slightly upwards and to the right.

**Next Step**

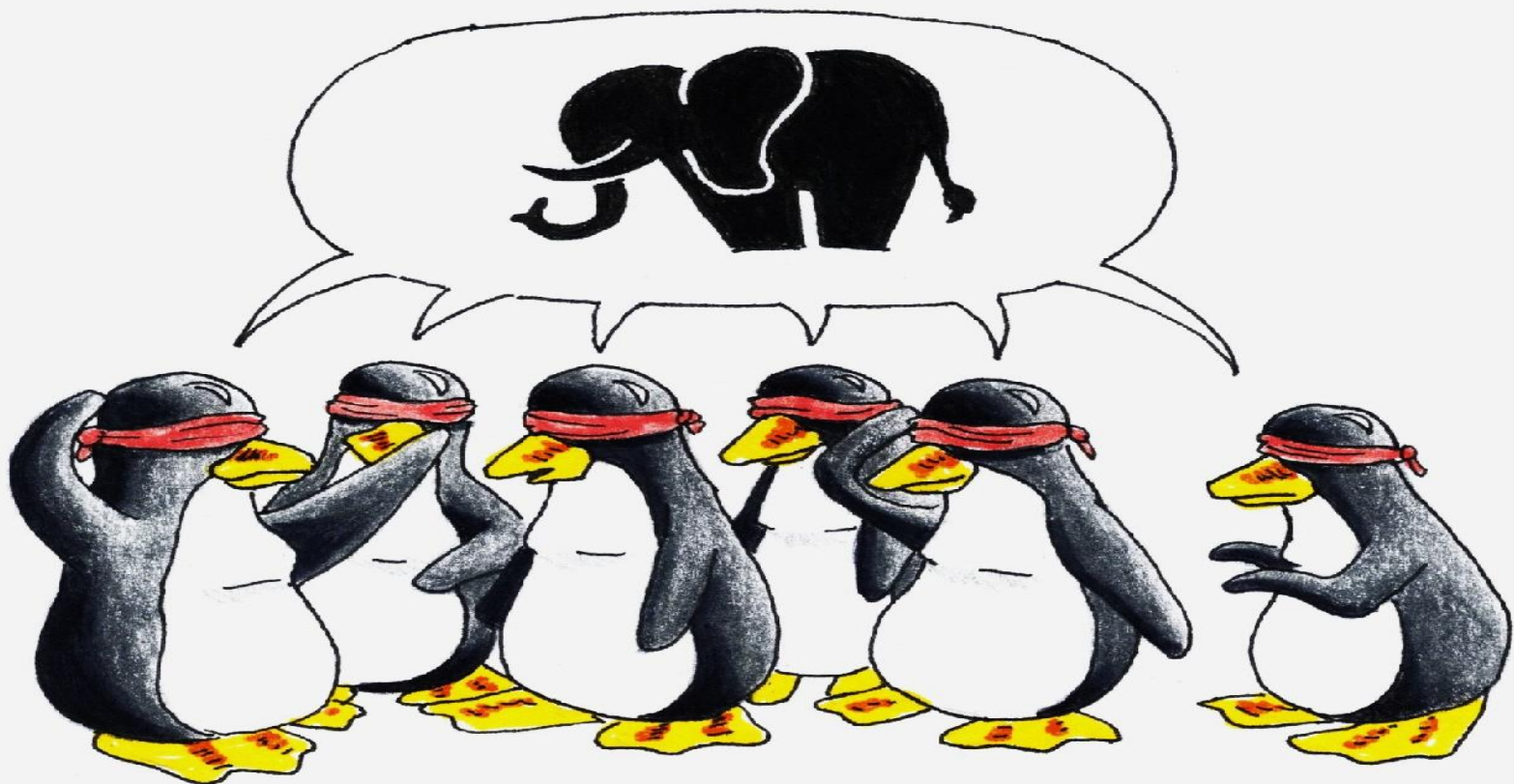
CONTRACT  
DRIVEN  
TESTS

SMOKE  
TESTS

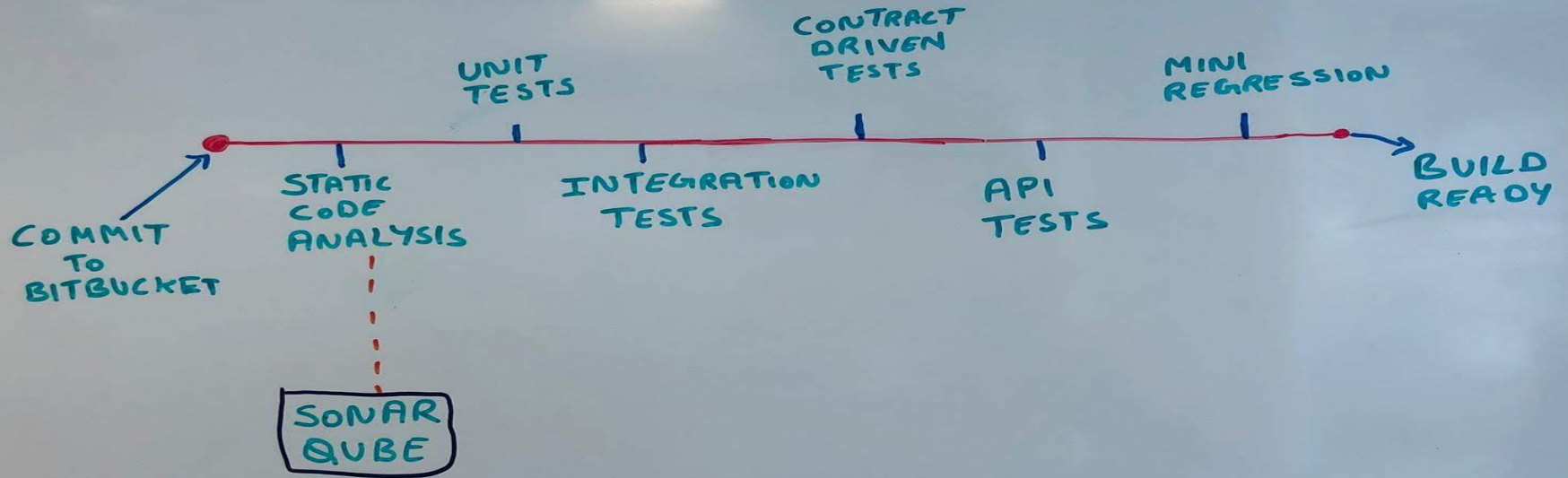
INTEGRATION  
TEST

API  
TESTS









# CI PIPELINE



# Nightly Build

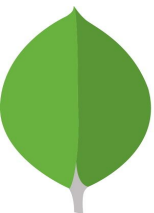








**Jenkins**



mongoDB



# FUTURE VISION



**Journey!**



# Key Takeaways



**“ It’s ok to feel scared**



**“ Visualise those pipelines.  
It helps.”**



**“ It’s ok to not know  
everything.”**

**“ Question  
Question  
Question**

**“ Explore!**

# **“ Trust and Collaboration**





**Useful  
Resources**

[The Whole Team Approach to Continuous Testing - TAU](#)

[Testing in devops - Katrina Clokie](#)

[Testing in devops blogs - Lisa Crispin](#)

[Continuous Delivery - Jez Humble](#)

[Continuous Delivery - Martin Fowler](#)

# Thanks!

## Any questions?

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