ATLASSIAN

The content described herein is intended to outline our general product direction for informational purposes only. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described herein remain at the sole discretion of Atlassian and is subject to change.

Accelerating value delivery by empowering autonomous teams

JEN MCVICKER | SR ENTERPRISE TECHNICAL ARCHITECT | @MCVICKERJEN

DEVOPS TRIFECTA

DEVOPS TRIFECTA

Culture

DEVOPS TRIFECTA

Culture

Strategies

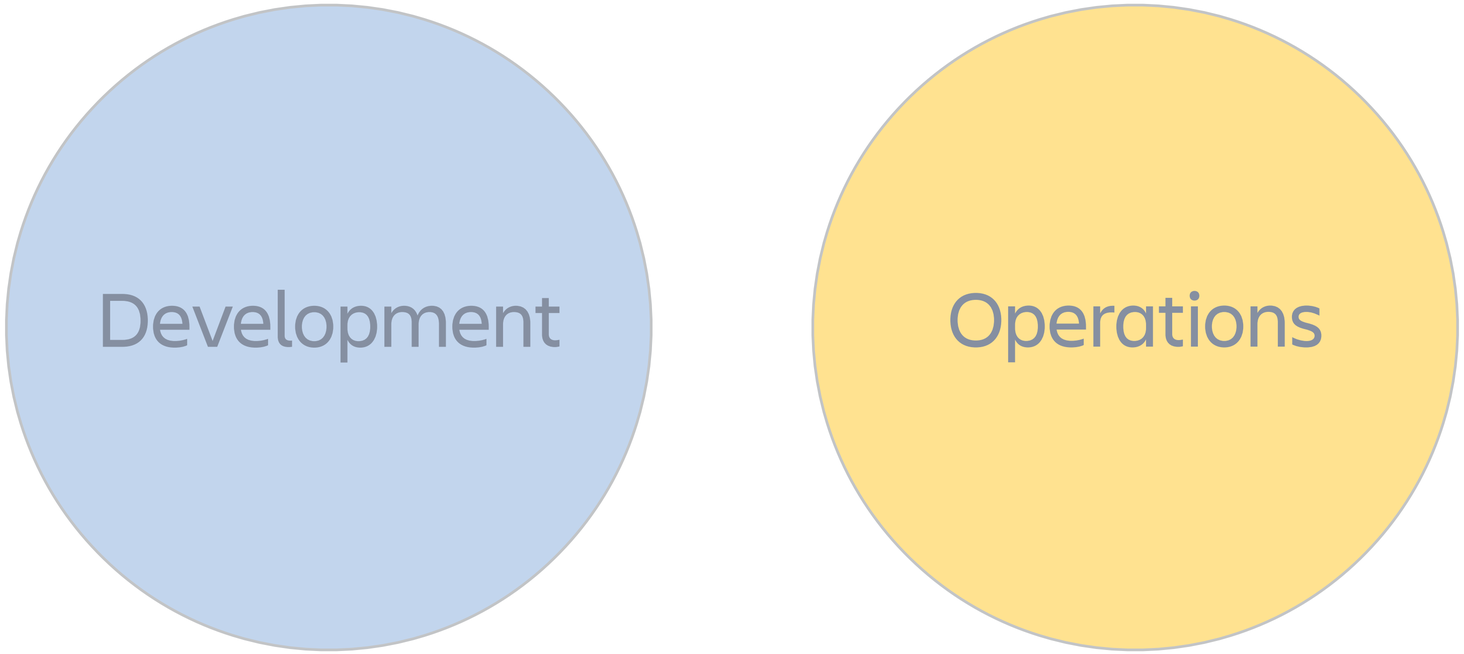
DEVOPS TRIFECTA

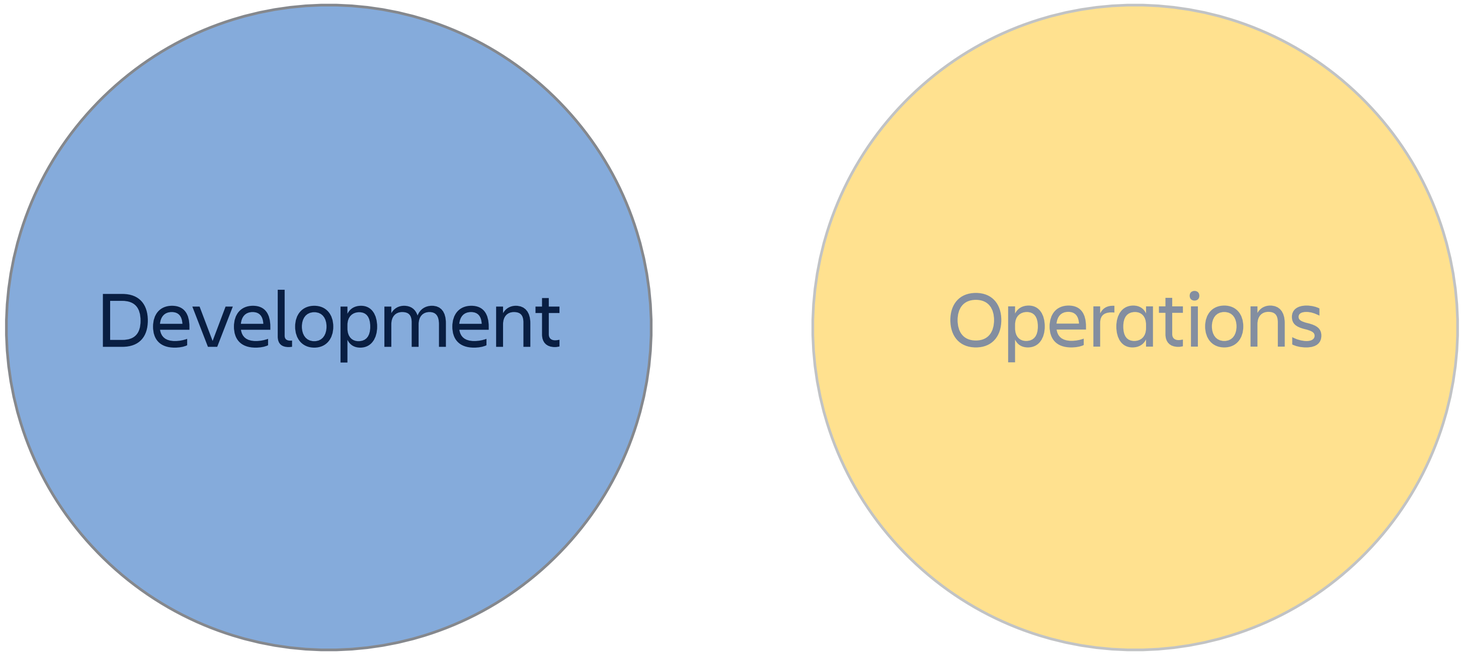
Culture

Strategies

Tools

DevOps culture


Development
Operations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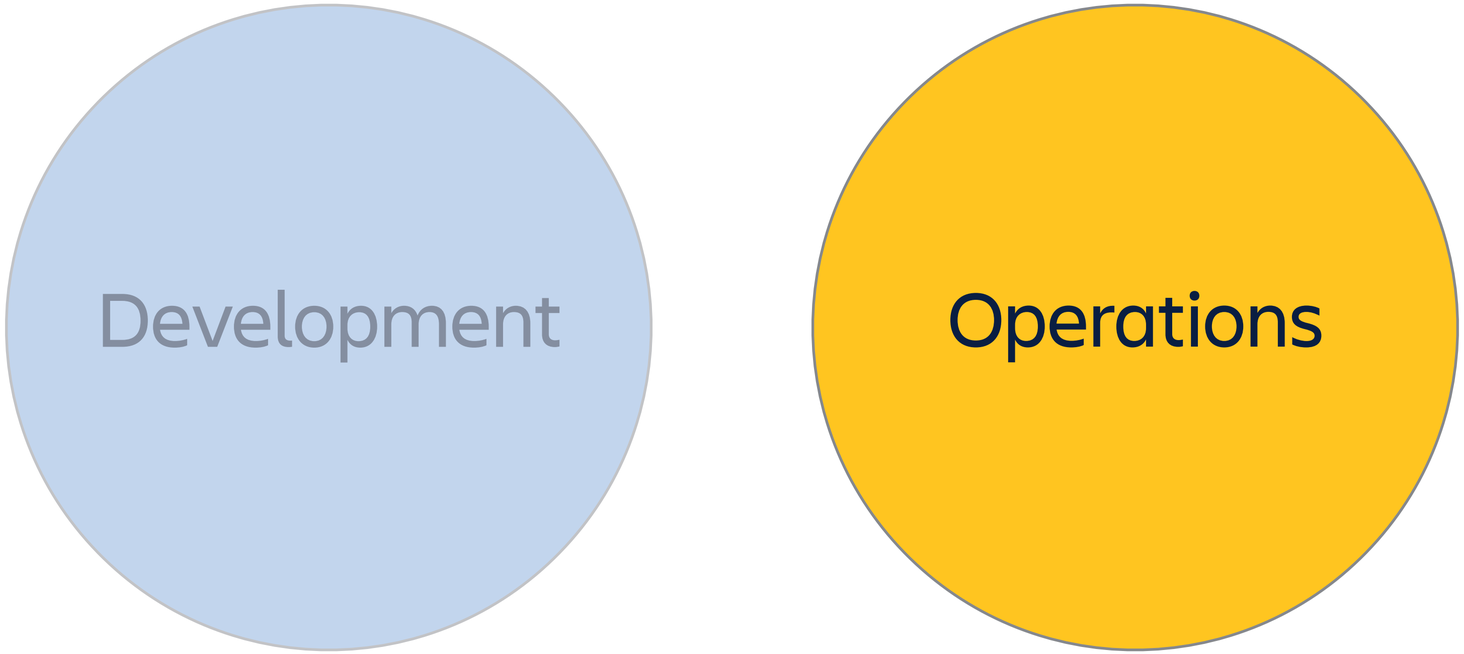
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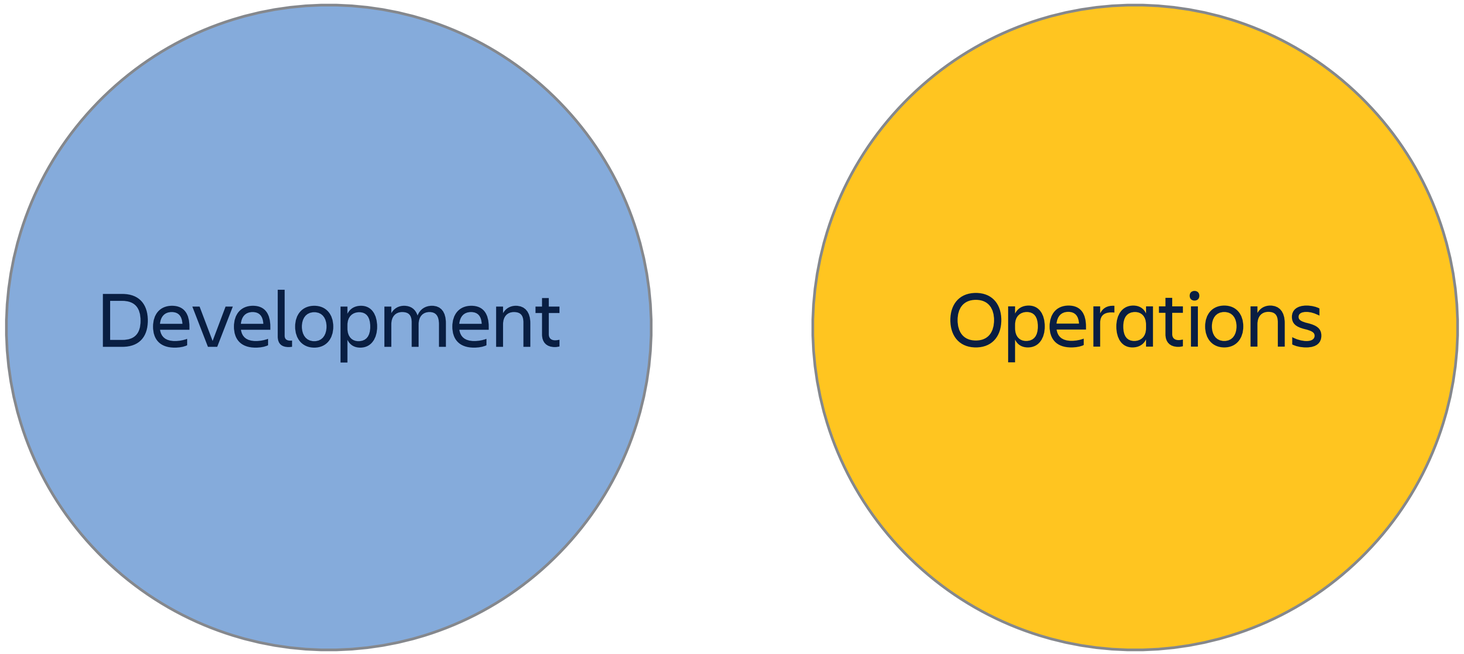
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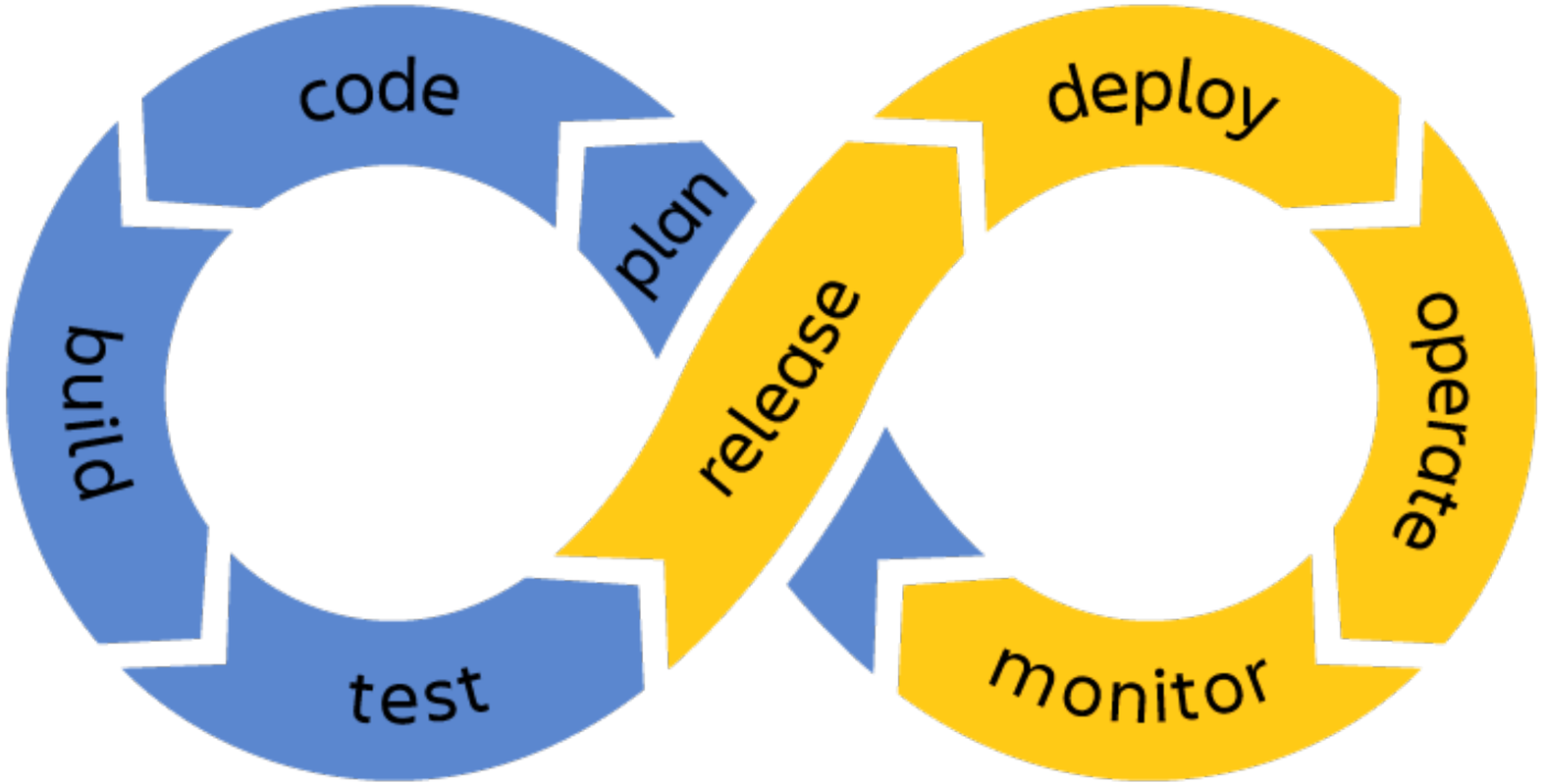
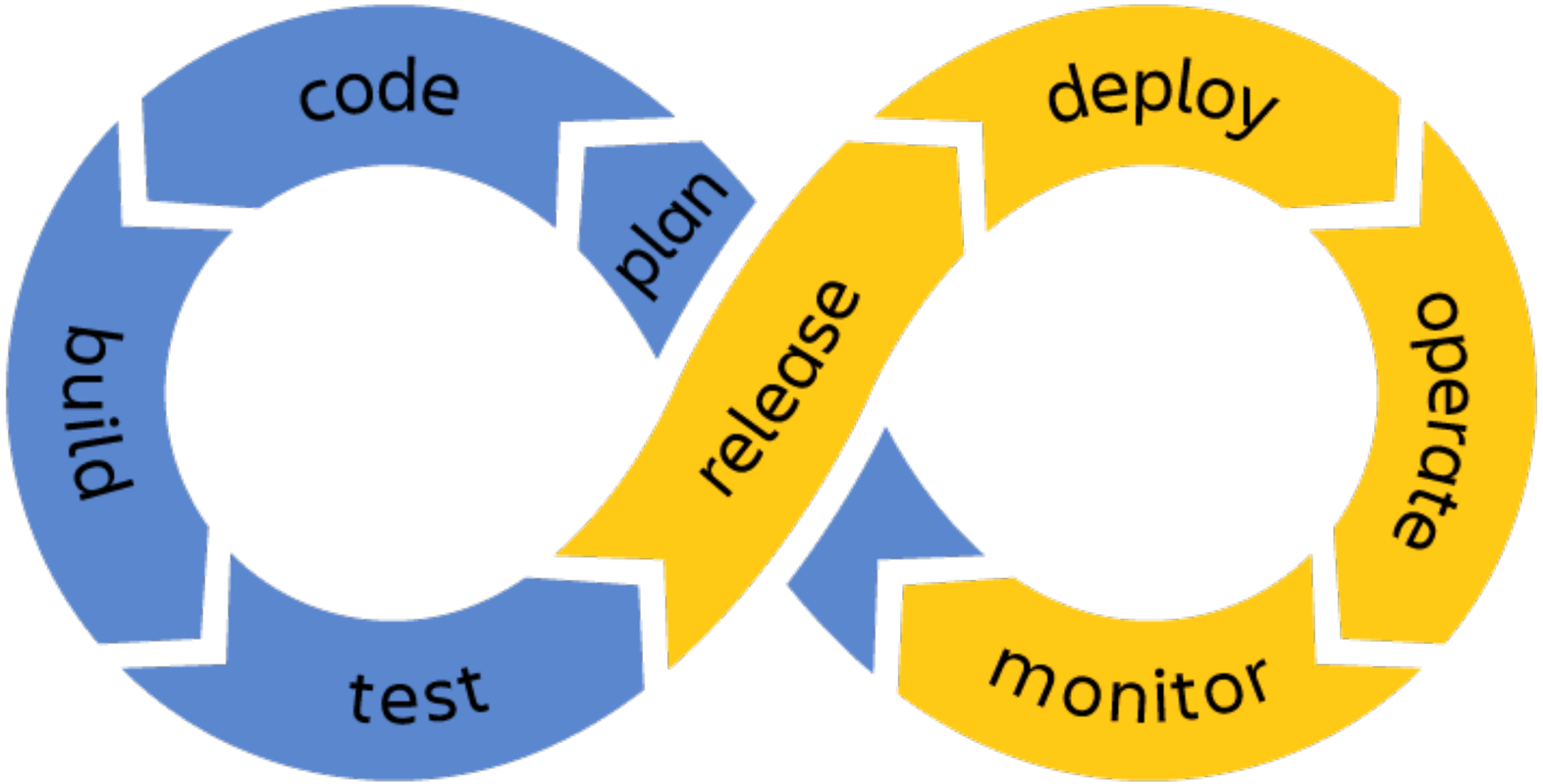
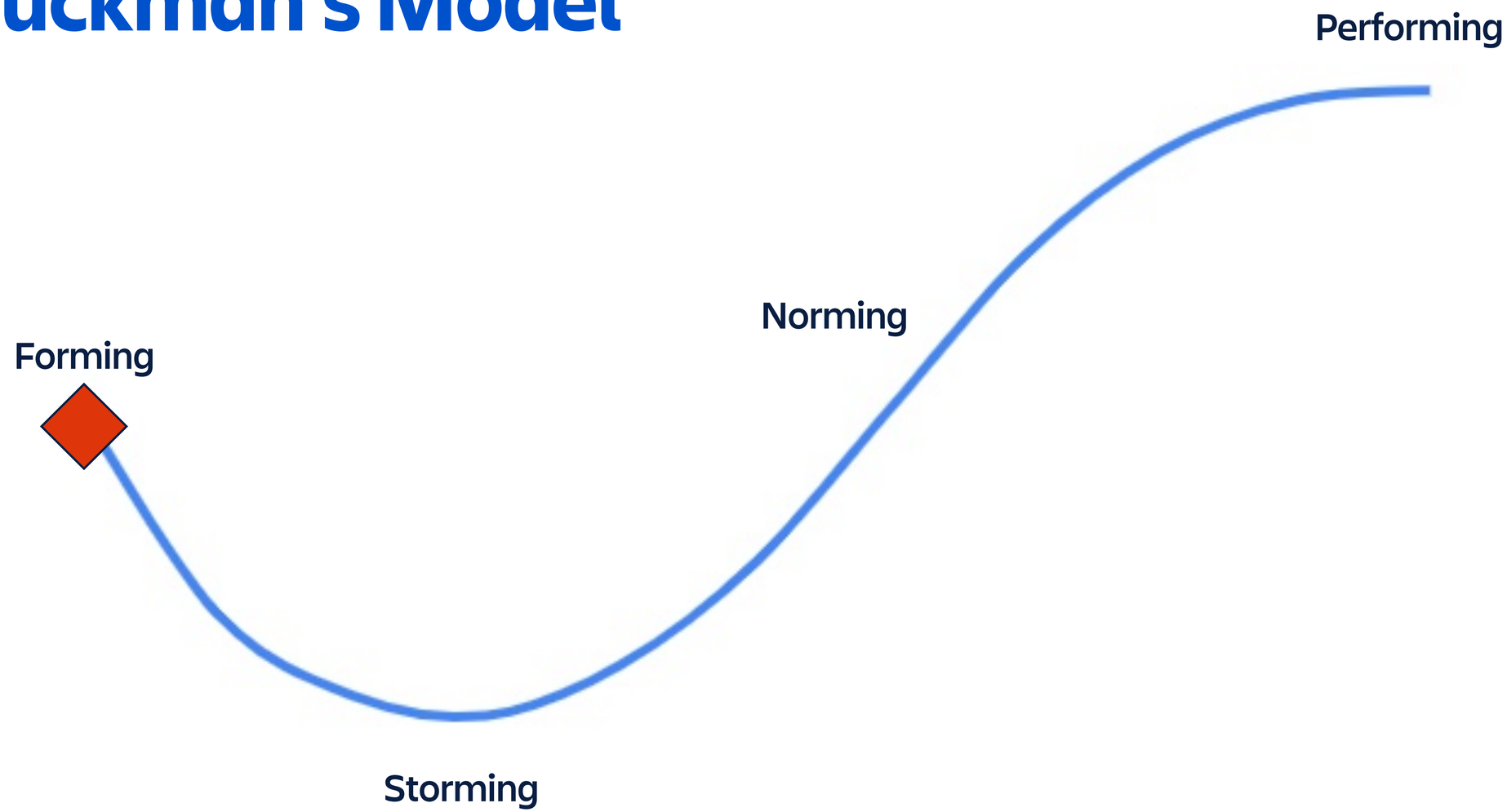

code
plan
build
test
release
deploy
operate
monitor



DevOps

Tuckman's Model



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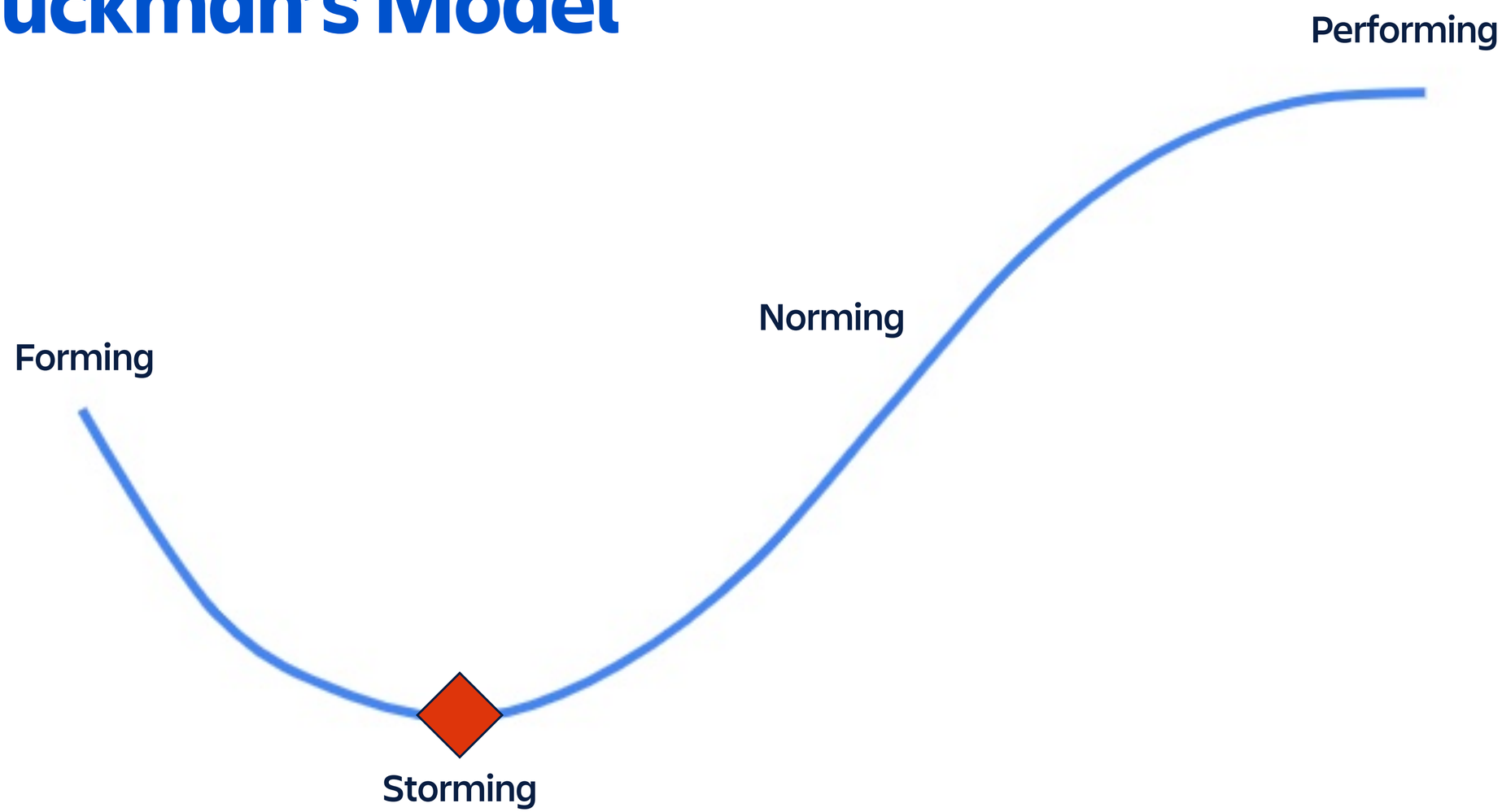

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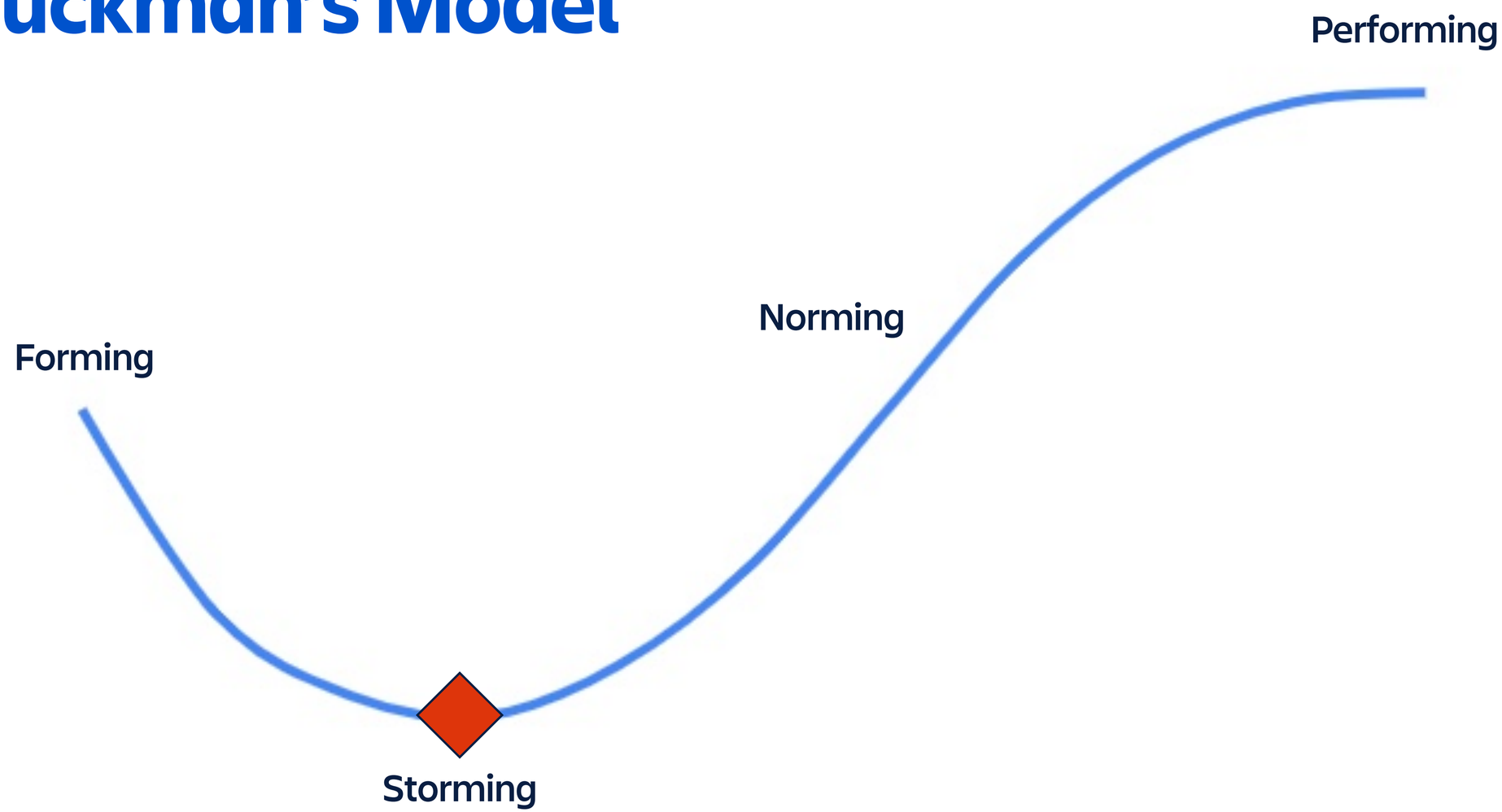

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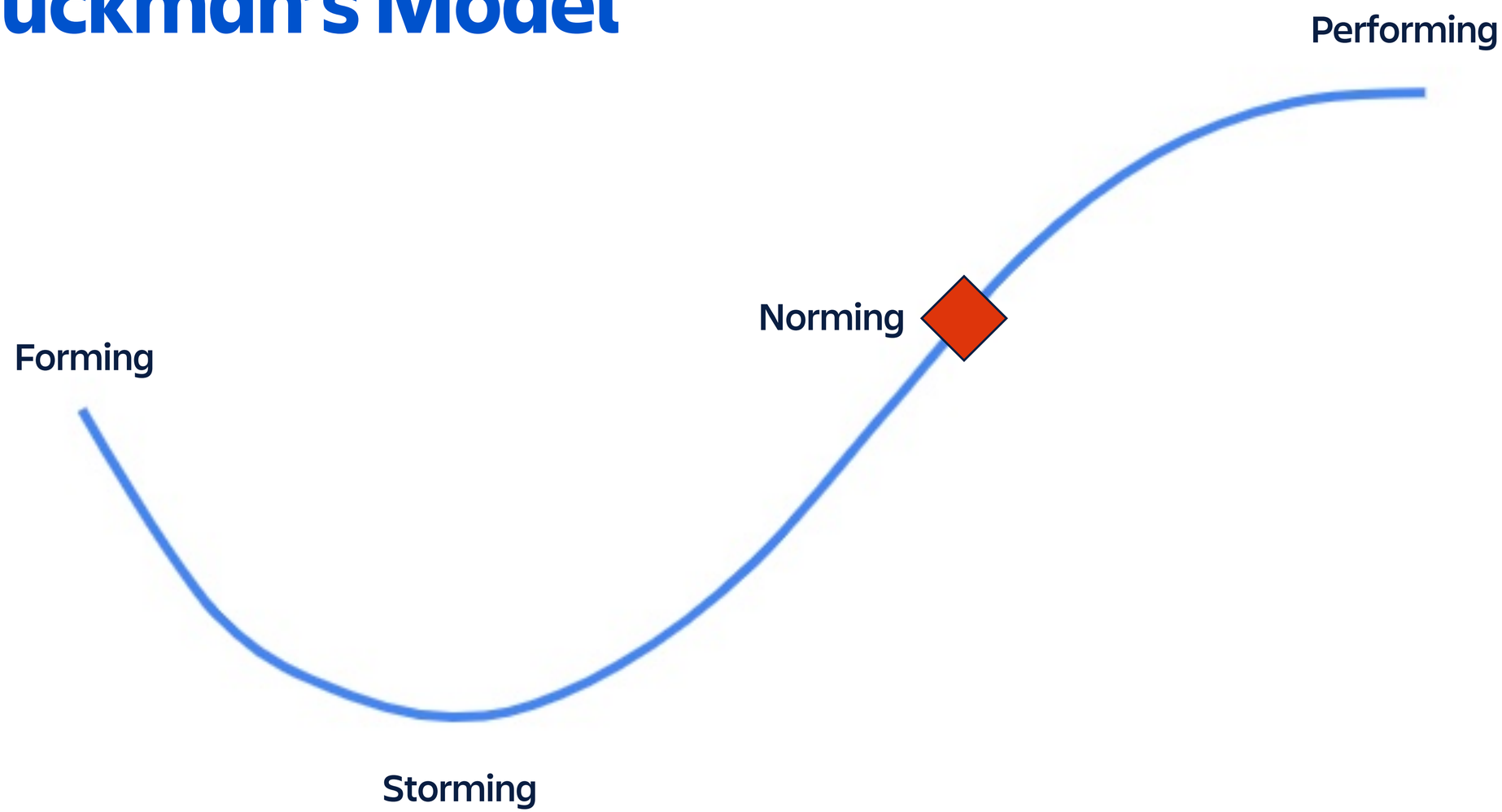

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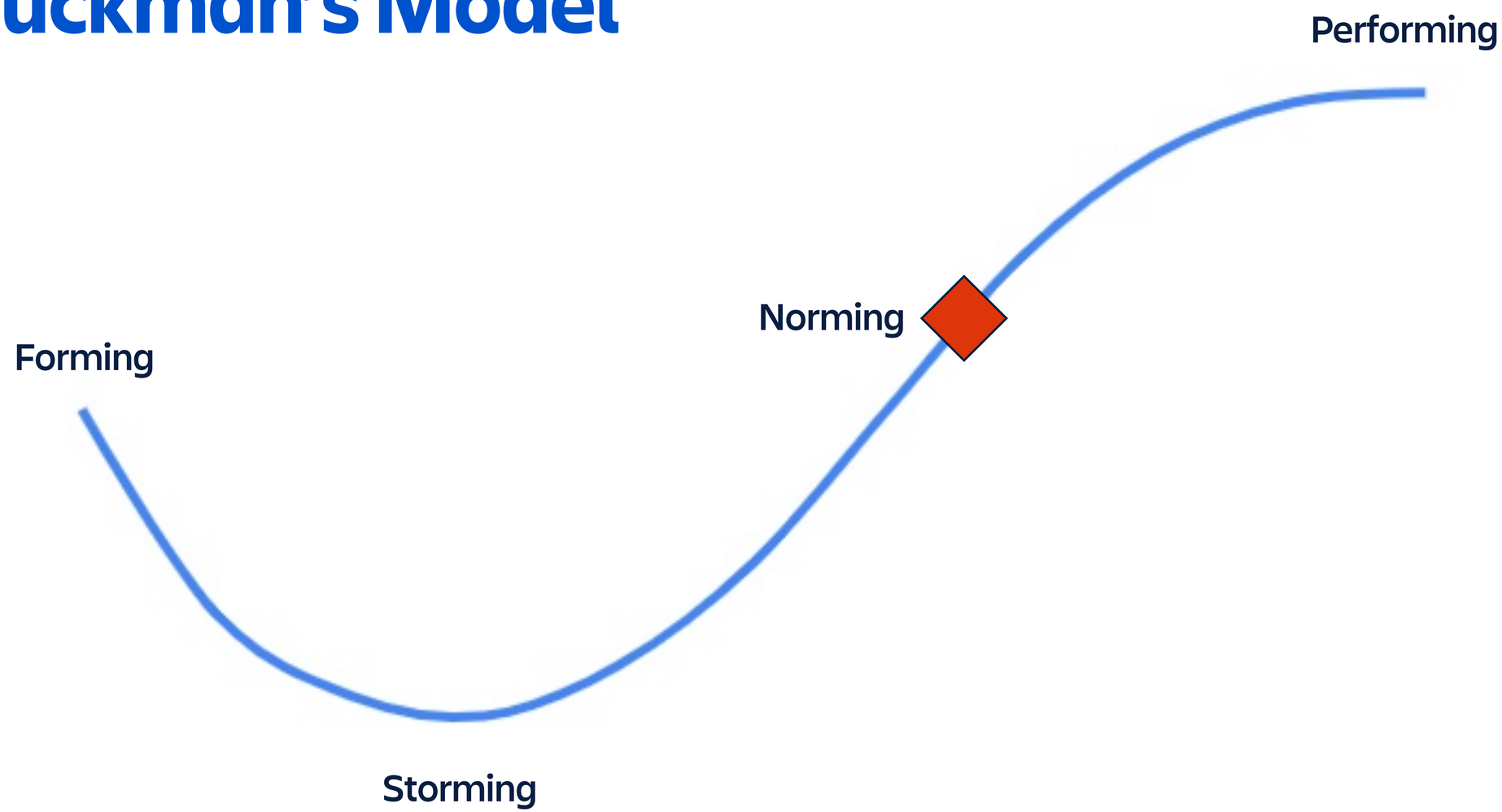

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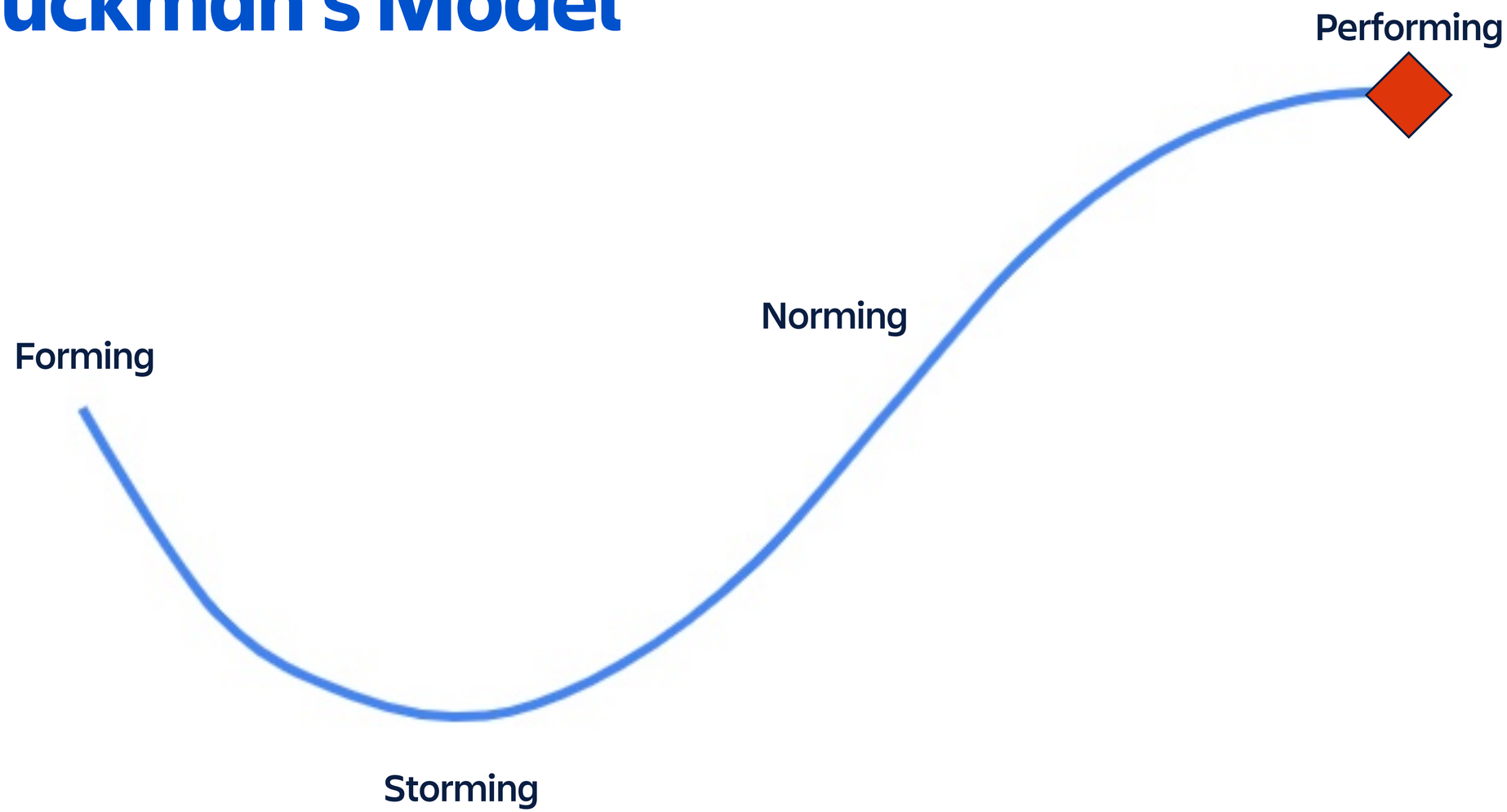

Autonomous

Independent

Cross-functional, without external dependencies

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Cross-functional, without external dependencies

Value-aligned

Focused on the end-to-end customer value stream

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Cross-functional, without external dependencies

Value-aligned

Focused on the end-to-end customer value stream

Empowered

Able to make decisions quickly, without bureaucracy

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OUTCOMES

OUTCOMES

over

OUTCOMES

over

OUTPUT

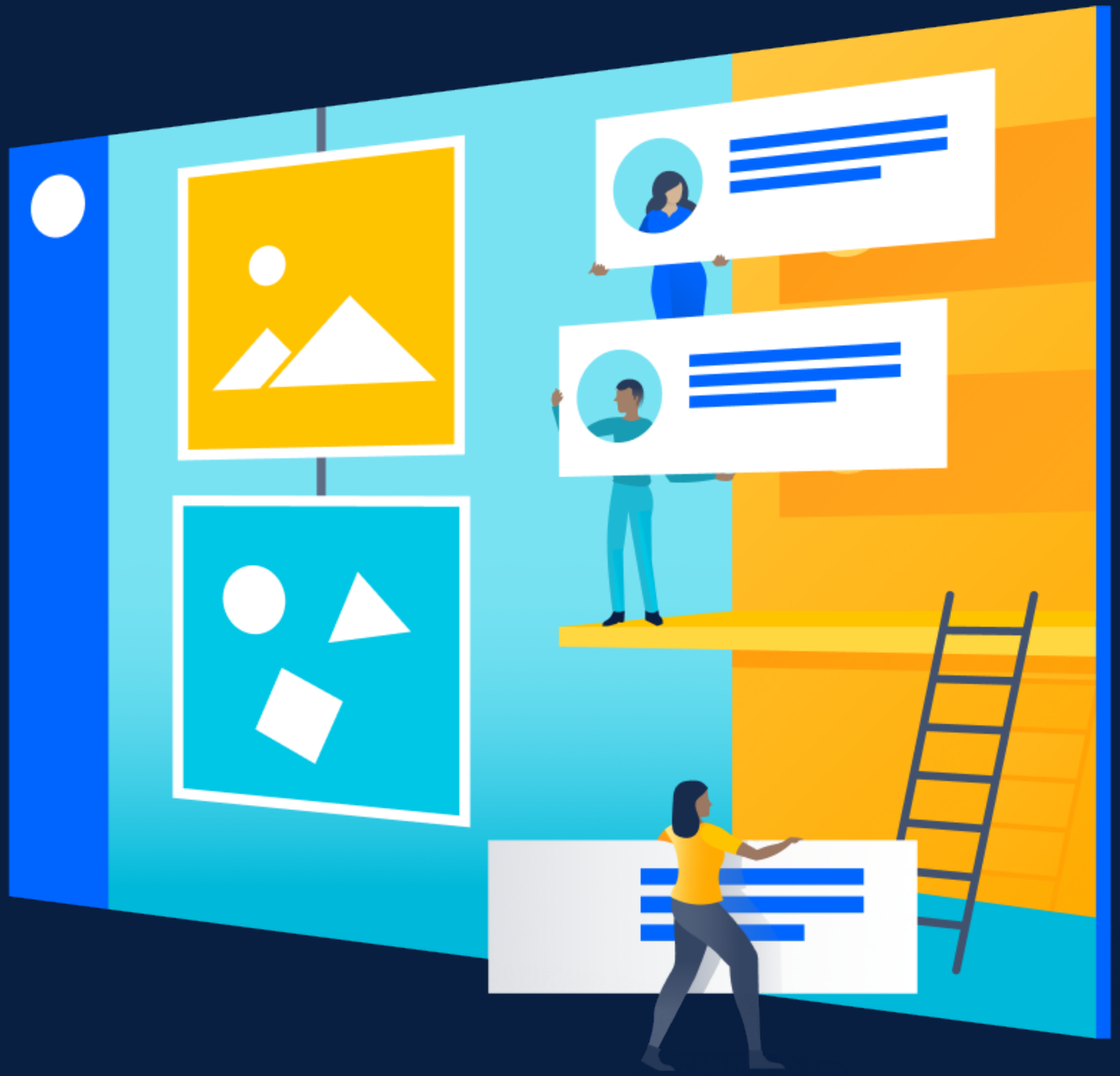
APRIL
22

OUTPUT

Deliver new avatar feature

OUTCOME

Increase customer engagement



DevOps strategies

2014 STATE OF DEVOPS REPORT

DORA
DEVOPS RESEARCH & ASSESSMENT

Deployment frequency

Deployment frequency

Change lead time

Deployment frequency

Change lead time

Change failure rate

Deployment frequency

Change lead time

Change failure rate

Mean time to recovery

DORA metrics

Deployment frequency

Change lead time

Change failure rate

Mean time to recovery

DORA metrics

Deployment frequency

Change lead time

Change failure rate

Mean time to recovery

DORA metrics

★ Deployment frequency

Change lead time

Change failure rate

Mean time to recovery

DORA metrics

★ Deployment frequency

Change lead time

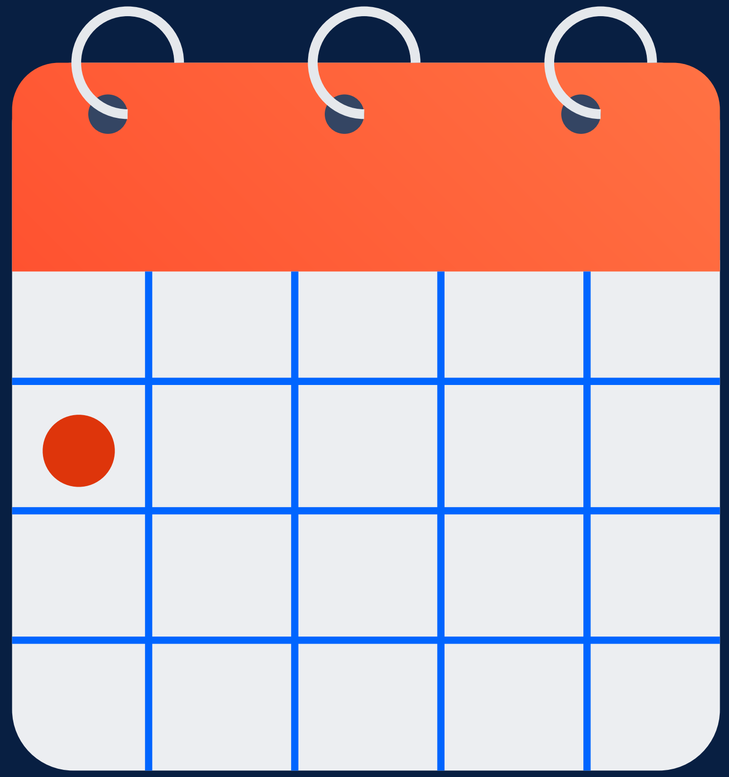
★ Change failure rate

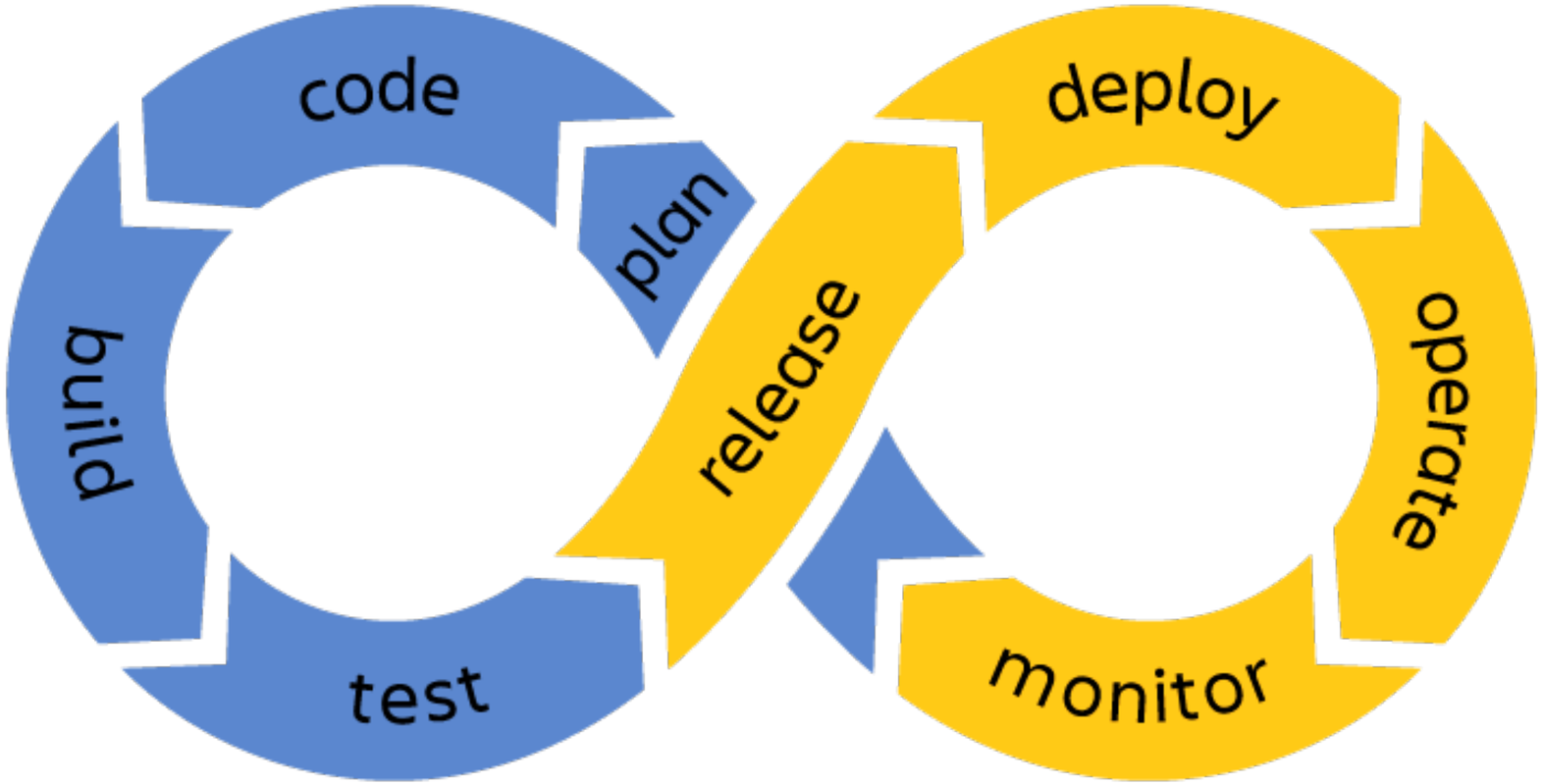
Mean time to recovery

How long does it take for changes to be deployed to production?

How long does it take for changes to be deployed to production?

Change approval board





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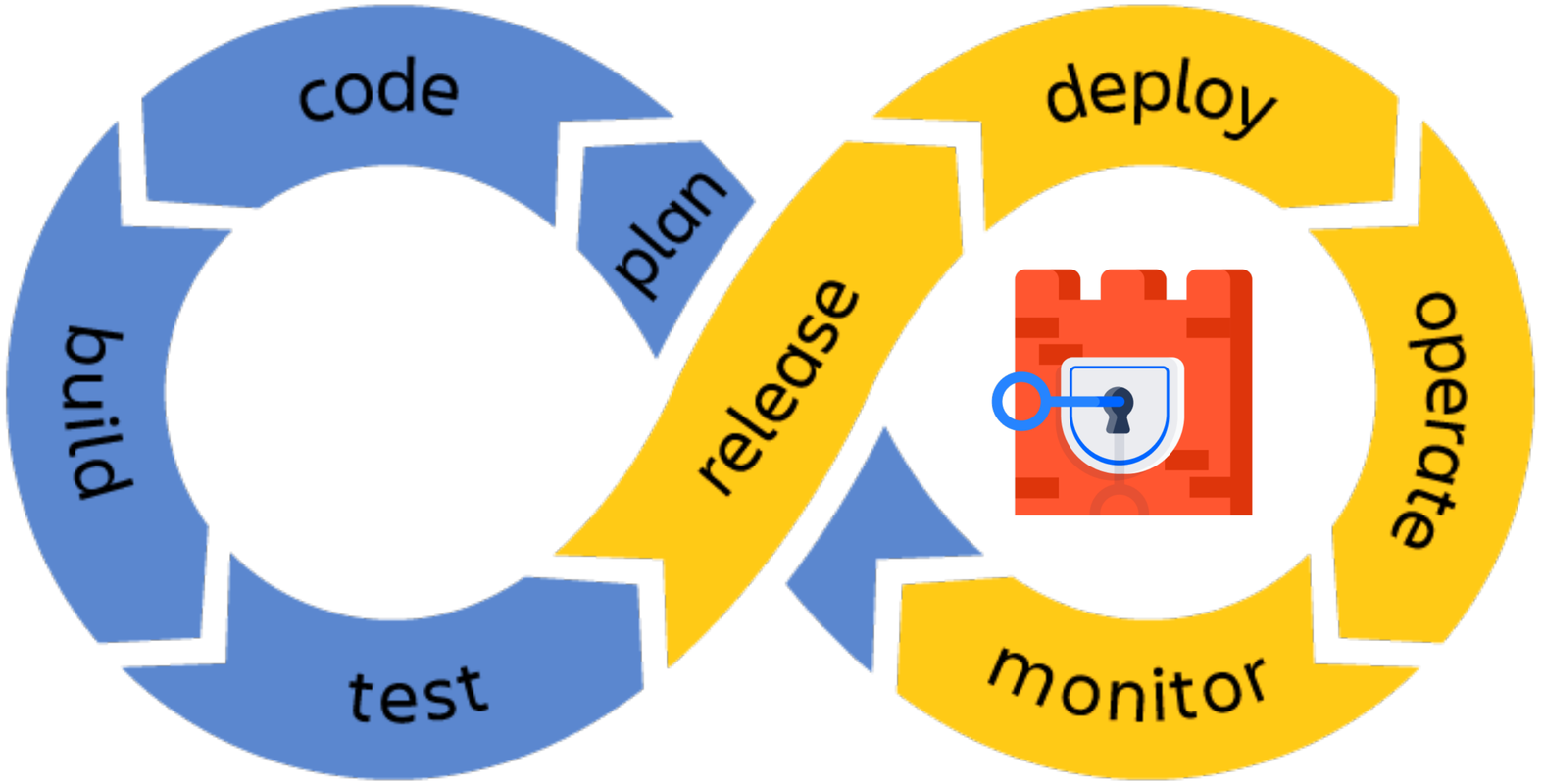
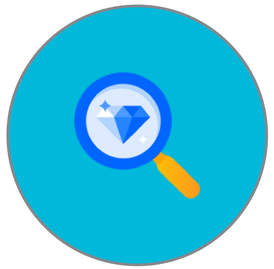


CONFIDENTIAL – DO NOT DISTRIBUTE

Loosely coupled architecture



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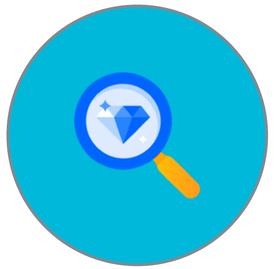

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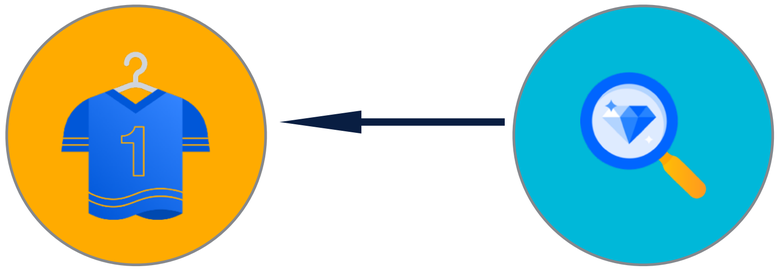

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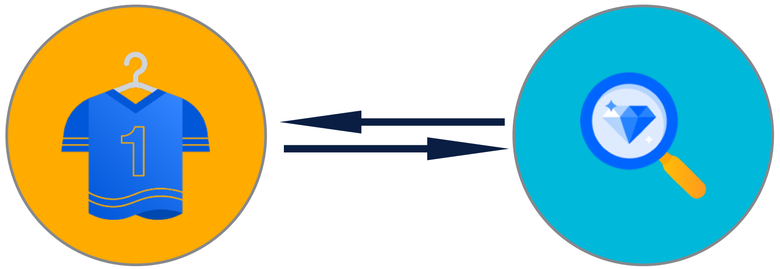

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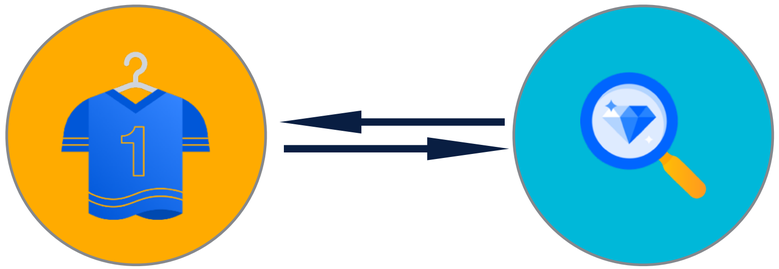
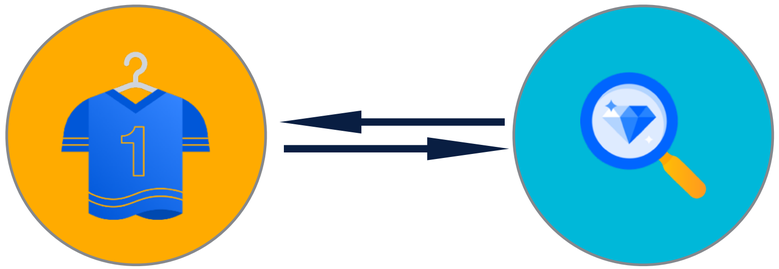


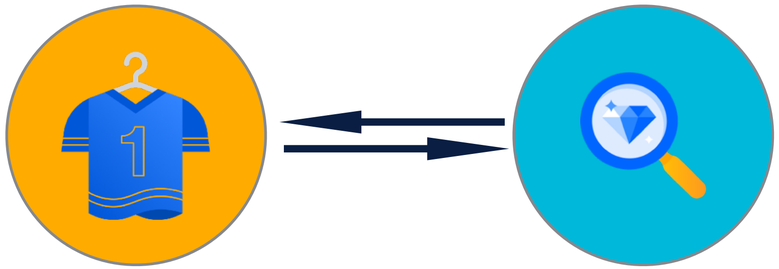
Balanced diet tee

CONFIDENTIAL – DO NOT DISTRIBUTE



Balanced diet tee
$35.00

CONFIDENTIAL – DO NOT DISTRIBUTE



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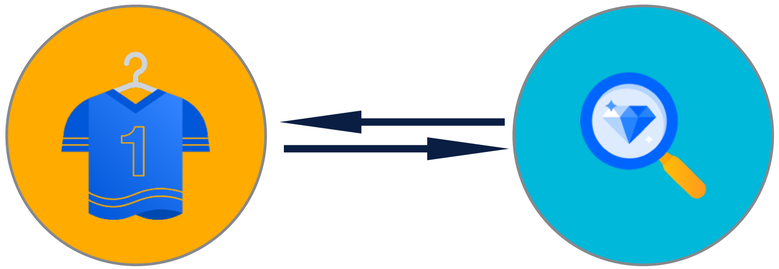

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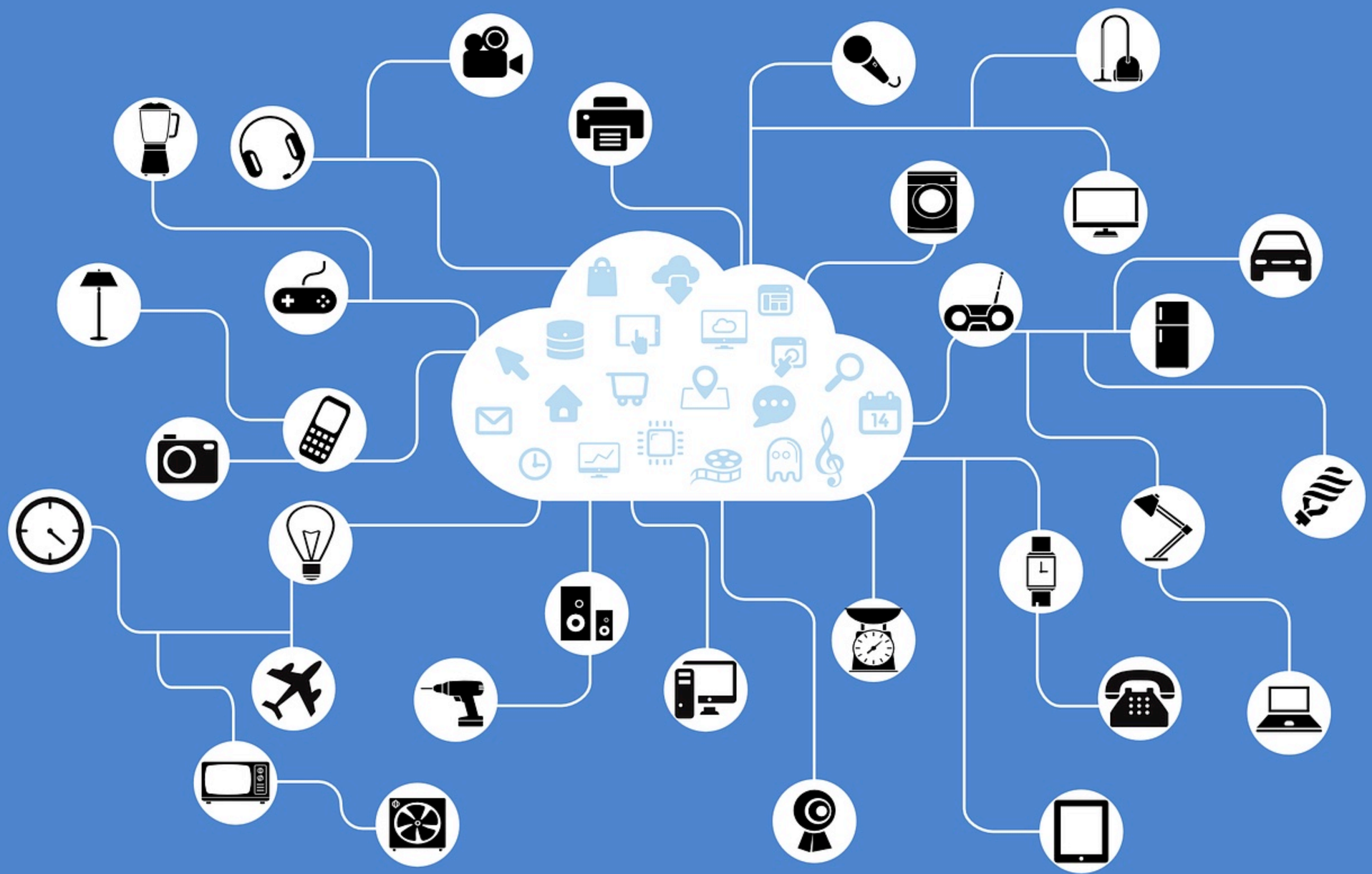

Service tiers

Service tiers

Tier 1

Any outage has a significant impact to customers or the company’s bottom line

Service tiers

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Tier 2

A failure may cause serious degradation to the customer experience or internal users

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Any outage has a significant impact to customers or the company's bottom line

Tier 2

A failure may cause serious degradation to the customer experience or internal users

Tier 3

Minor, potentially unnoticeable impact to customers or limited impact internally

Service tiers

Tier 1

Any outage has a significant impact to customers or the company's bottom line

Tier 2

A failure may cause serious degradation to the customer experience or internal users

Tier 3

Minor, potentially unnoticeable impact to customers or limited impact internally

Tier 4

No significant impact on customers or internal users

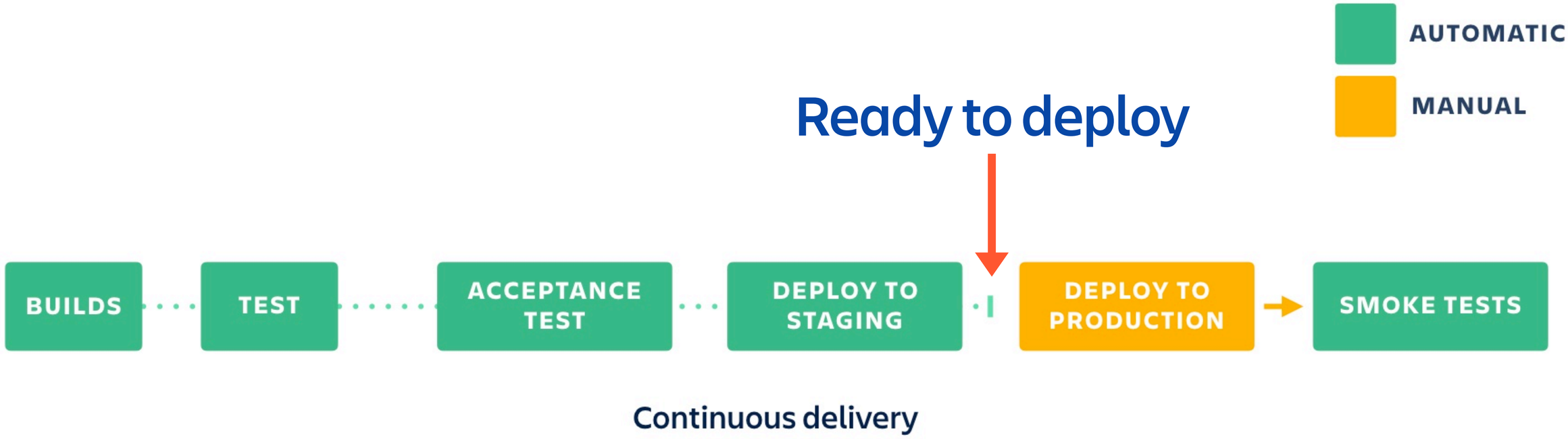
DELIVERY

vs.

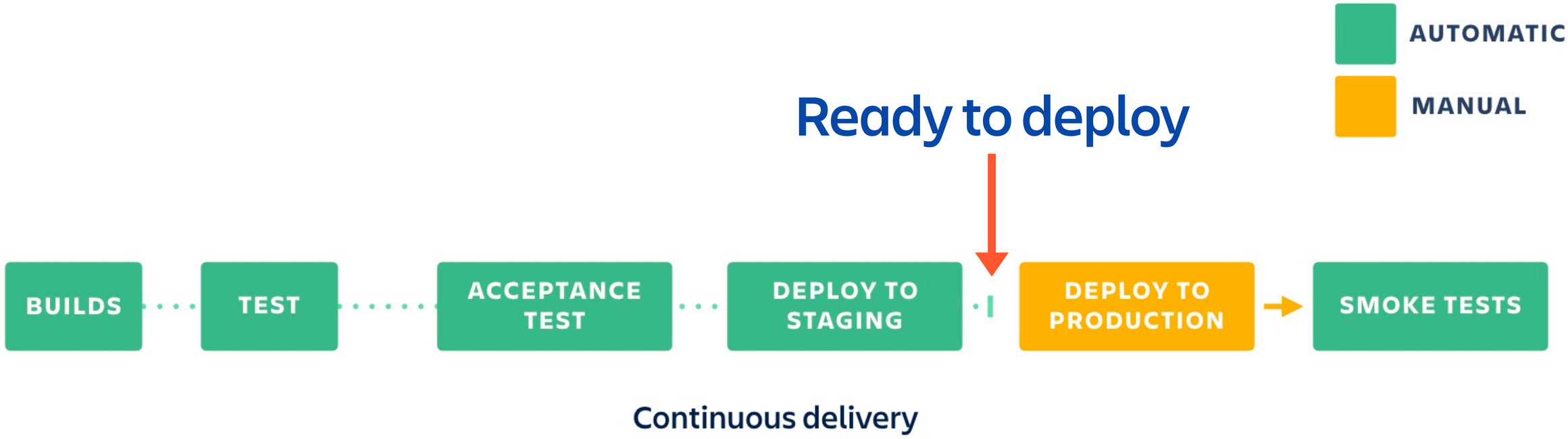
DEPLOYMENT

Continuous delivery

Continuous delivery



Continuous delivery



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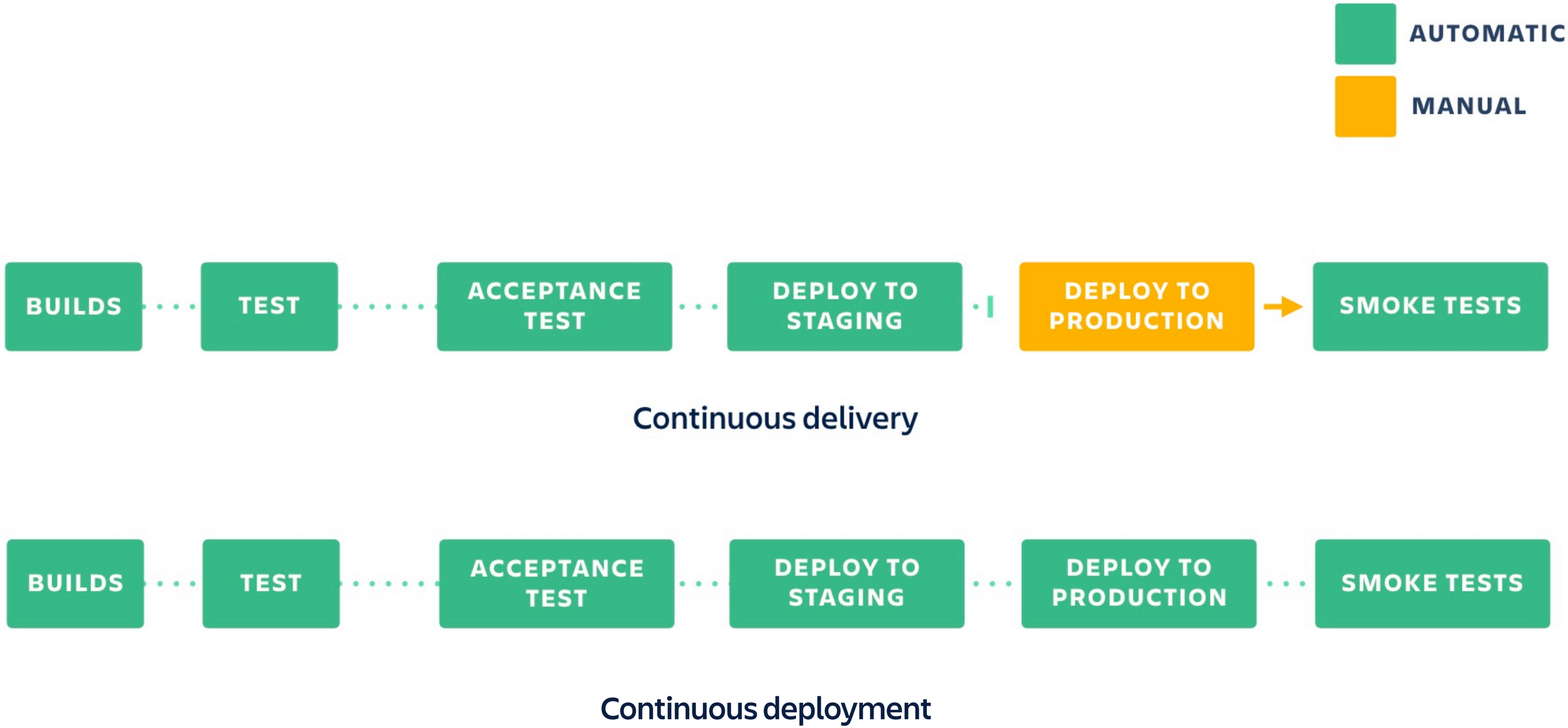
AUTOMATIC
MANUAL
BUILDS
TEST
ACCEPTANCE TEST
DEPLOY TO STAGING
DEPLOY TO PRODUCTION
SMOKE TESTS
Continuous delivery
BUILDS
TEST
ACCEPTANCE TEST
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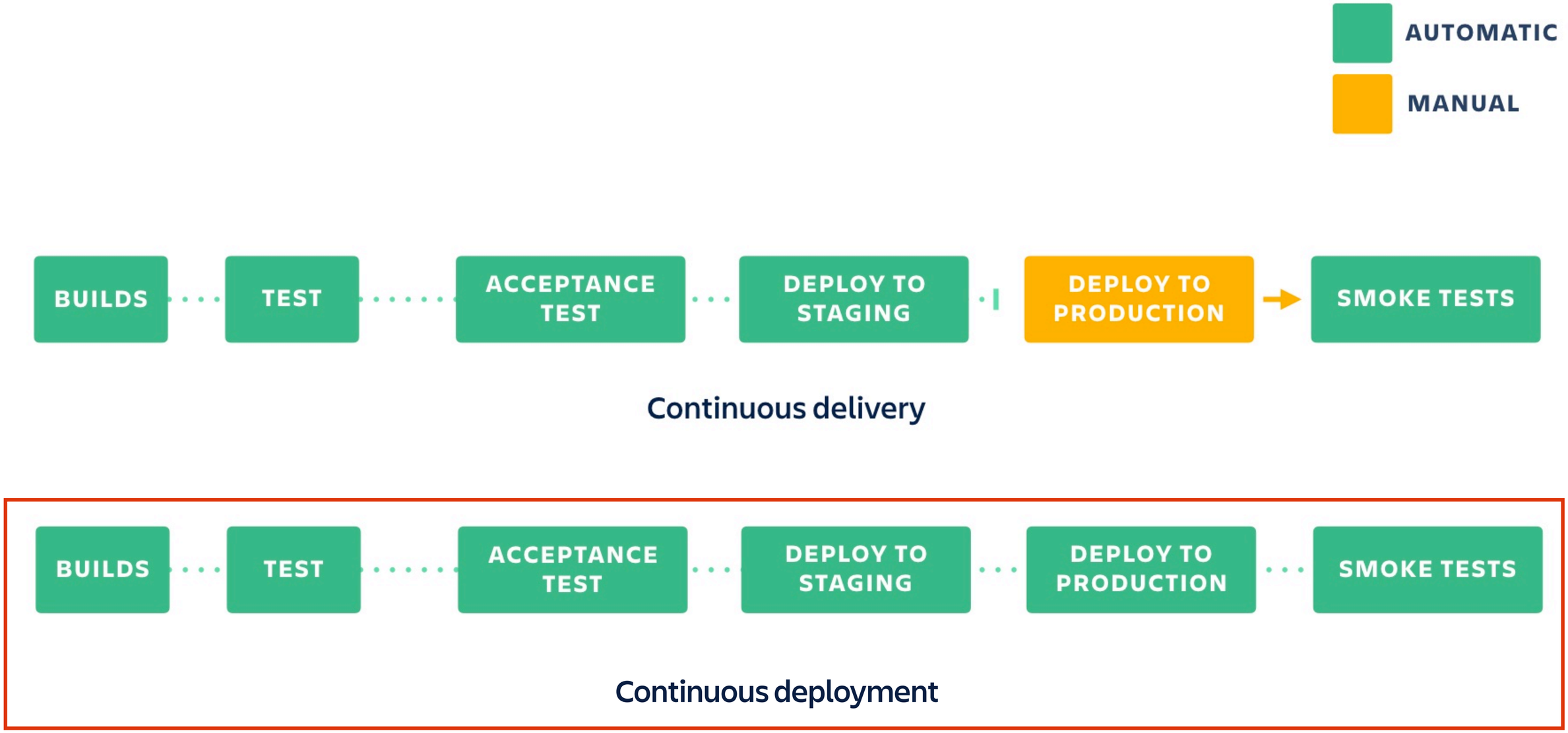
DEPLOY TO PRODUCTION
SMOKE TESTS
Continuous deployment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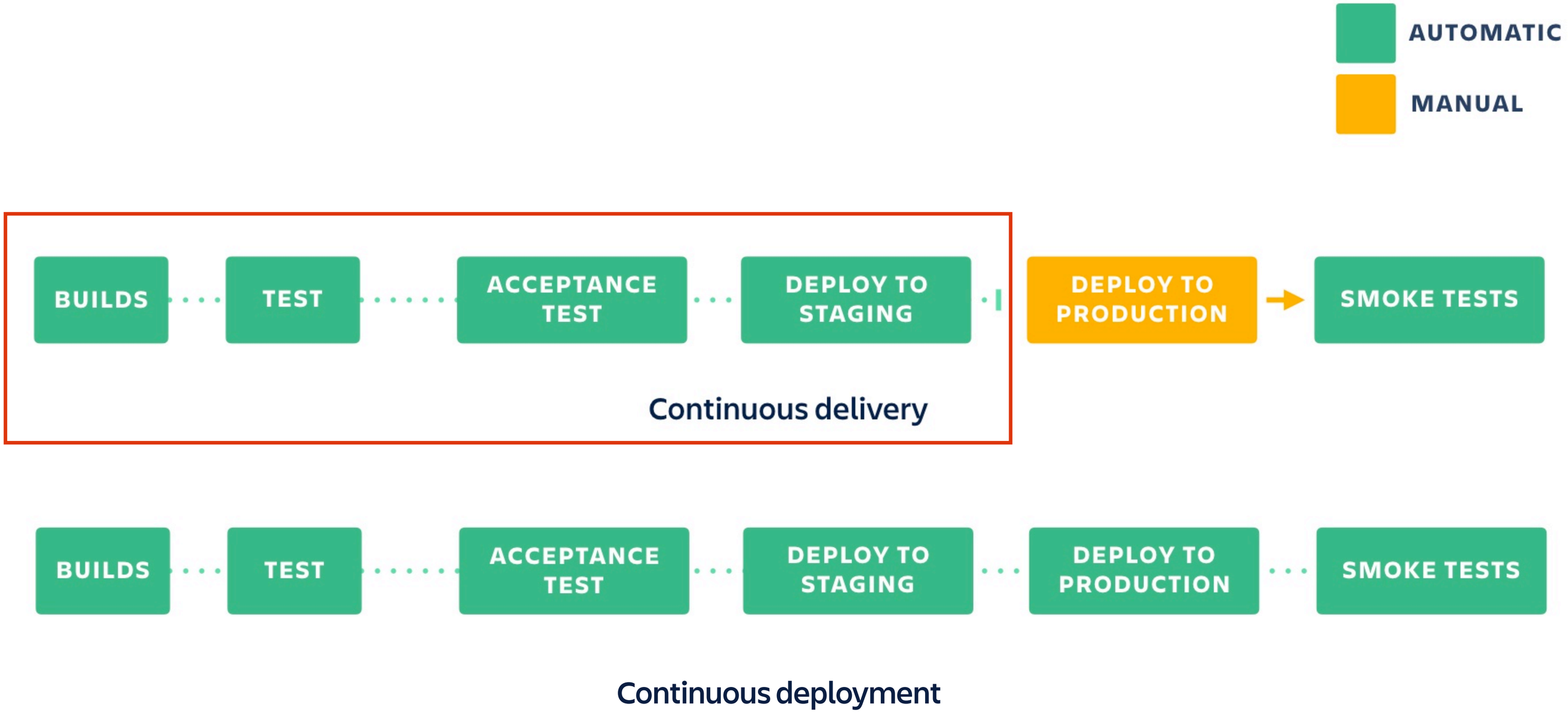
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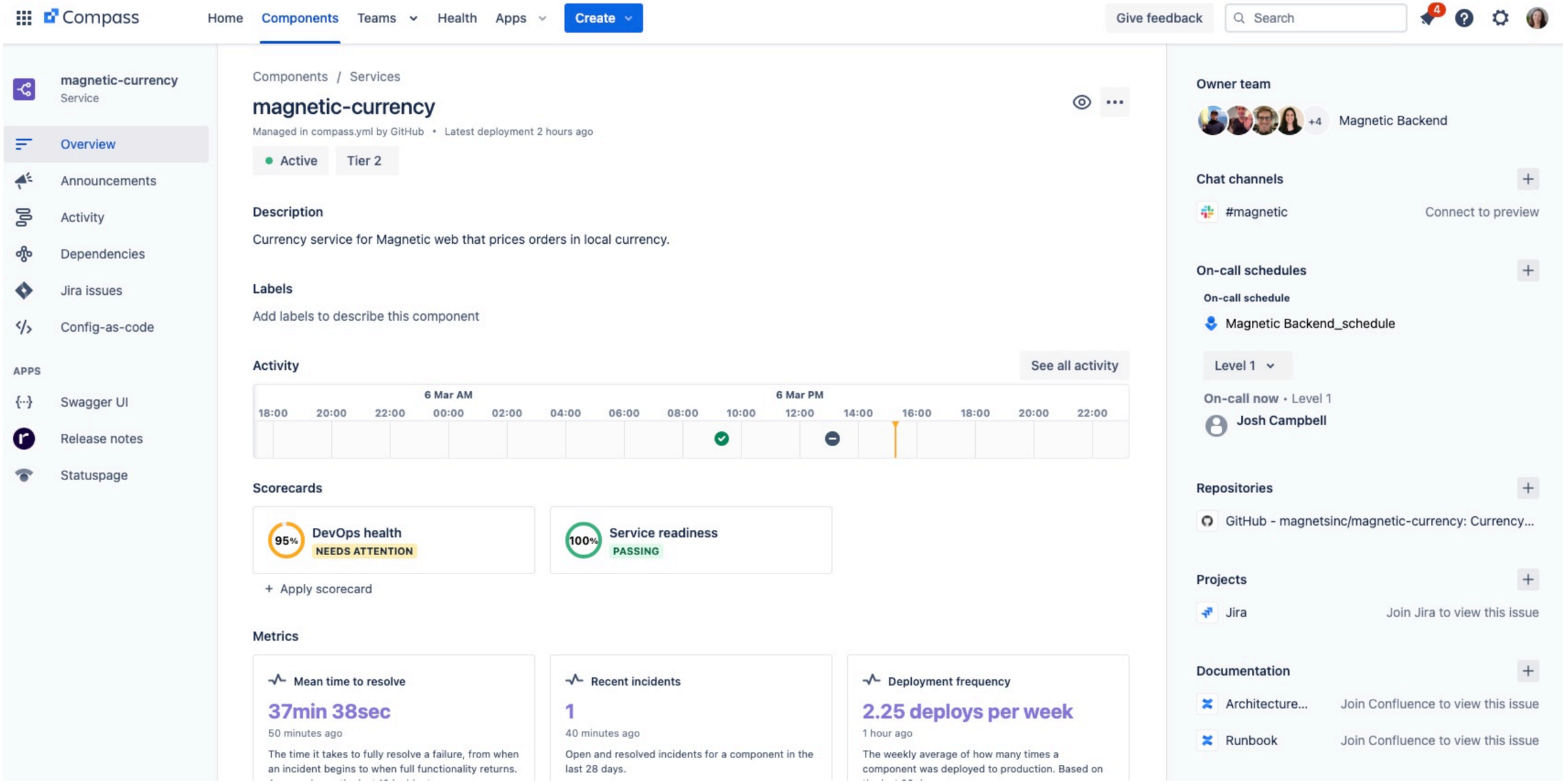
DevOps tools


Compass
Home
Components
Teams
Health
Apps
Create
Give feedback
Search
magnetic-currency
Service
Overview
Announcements
Activity
Dependencies
Jira issues
Config-as-code
APPS
Swagger UI
Release notes
Statuspage
Components / Services
magnetic-currency
Managed in compass.yml by GitHub • Latest deployment 2 hours ago
Active
Tier 2
Description
Currency service for Magnetic web that prices orders in local currency.
Labels
Add labels to describe this component
Activity
See all activity
6 Mar AM
6 Mar PM
18:00 20:00 22:00 00:00 02:00 04:00 06:00 08:00 10:00 12:00 14:00 16:00 18:00 20:00 22:00
Scorecards
95%
DevOps health
NEEDS ATTENTION
100%
Service readiness
PASSING
+ Apply scorecard
Metrics
Mean time to resolve
37min 38sec
50 minutes ago
The time it takes to fully resolve a failure, from when an incident begins to when full functionality returns.
Recent incidents
1
40 minutes ago
Open and resolved incidents for a component in the last 28 days.
Deployment frequency
2.25 deploys per week
1 hour ago
The weekly average of how many times a component was deployed to production. Based on
Owner team
+4
Magnetic Backend
Chat channels
#magnetic
Connect to preview
On-call schedules
On-call schedule
Magnetic Backend_schedule
Level 1
On-call now • Level 1
Josh Campbell
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GitHub - magnetsinc/magnetic-currency: Currency...
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Architecture...
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Runbook
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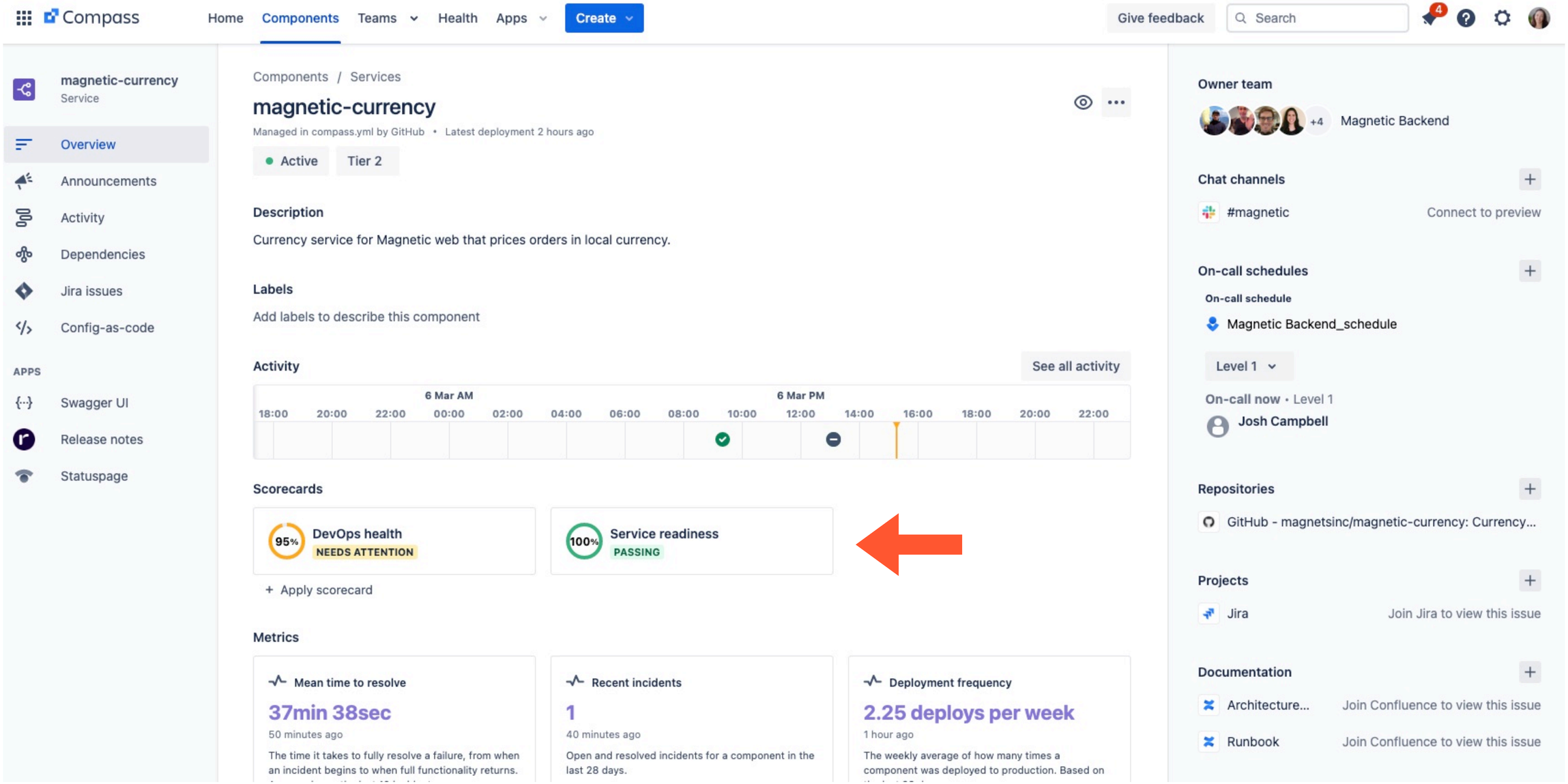
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Change Readiness Scorecard

To help identify low-risk components that can be deployed without going through CAB process

0%

Scorecard owner

Jen McVicker

Applies to

4 services

Criteria not met	Criteria weight
Change Failure rate (last 28 days) < 10 %	20%
MTTR (last 10 incidents) < 3 min	30%
Unit Test Coverage (last 10 builds average) ≥ 85 %	30%
Downstream dependencies ≤ 3 dependencies	20%

View scorecard details

Close

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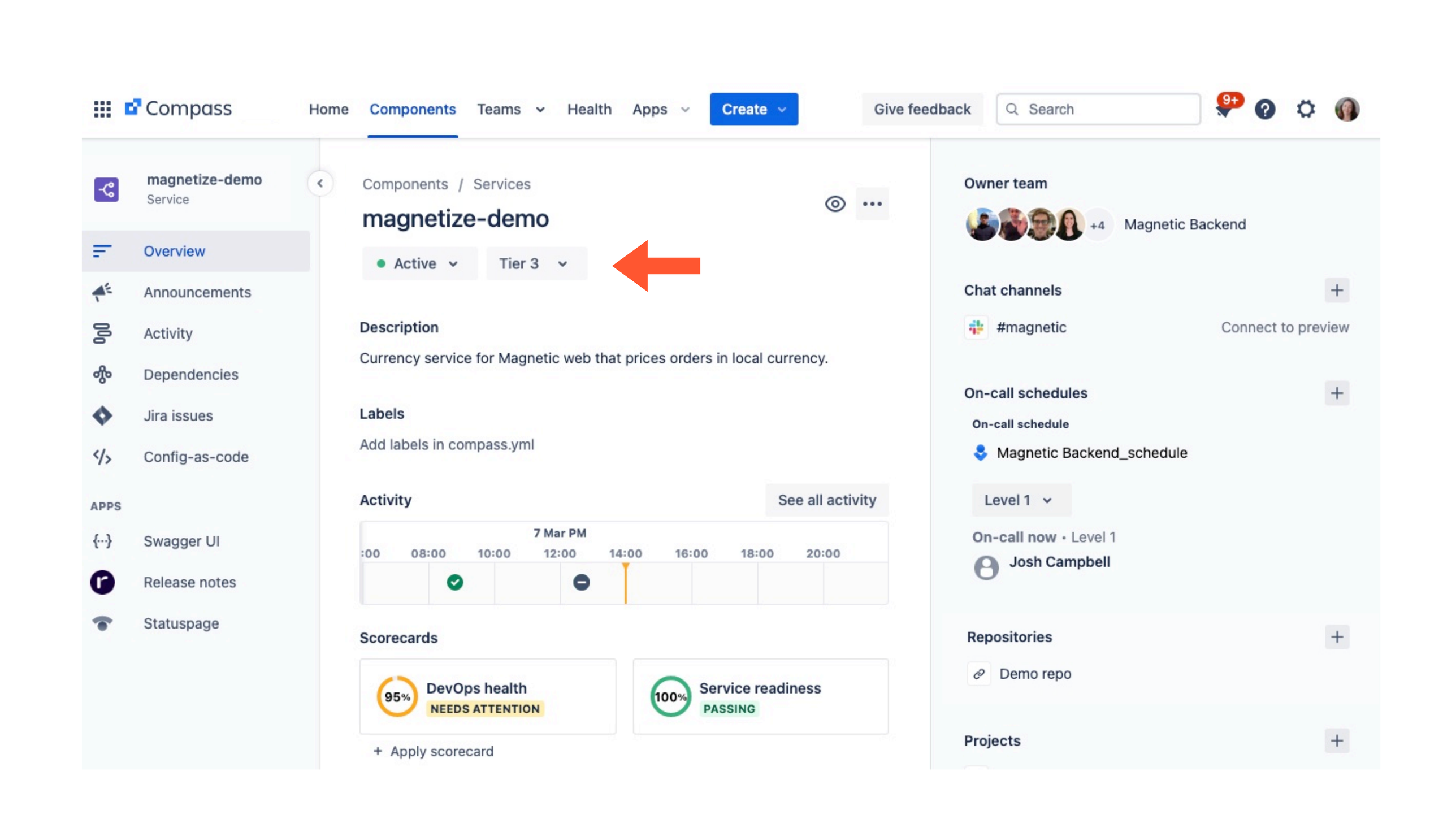
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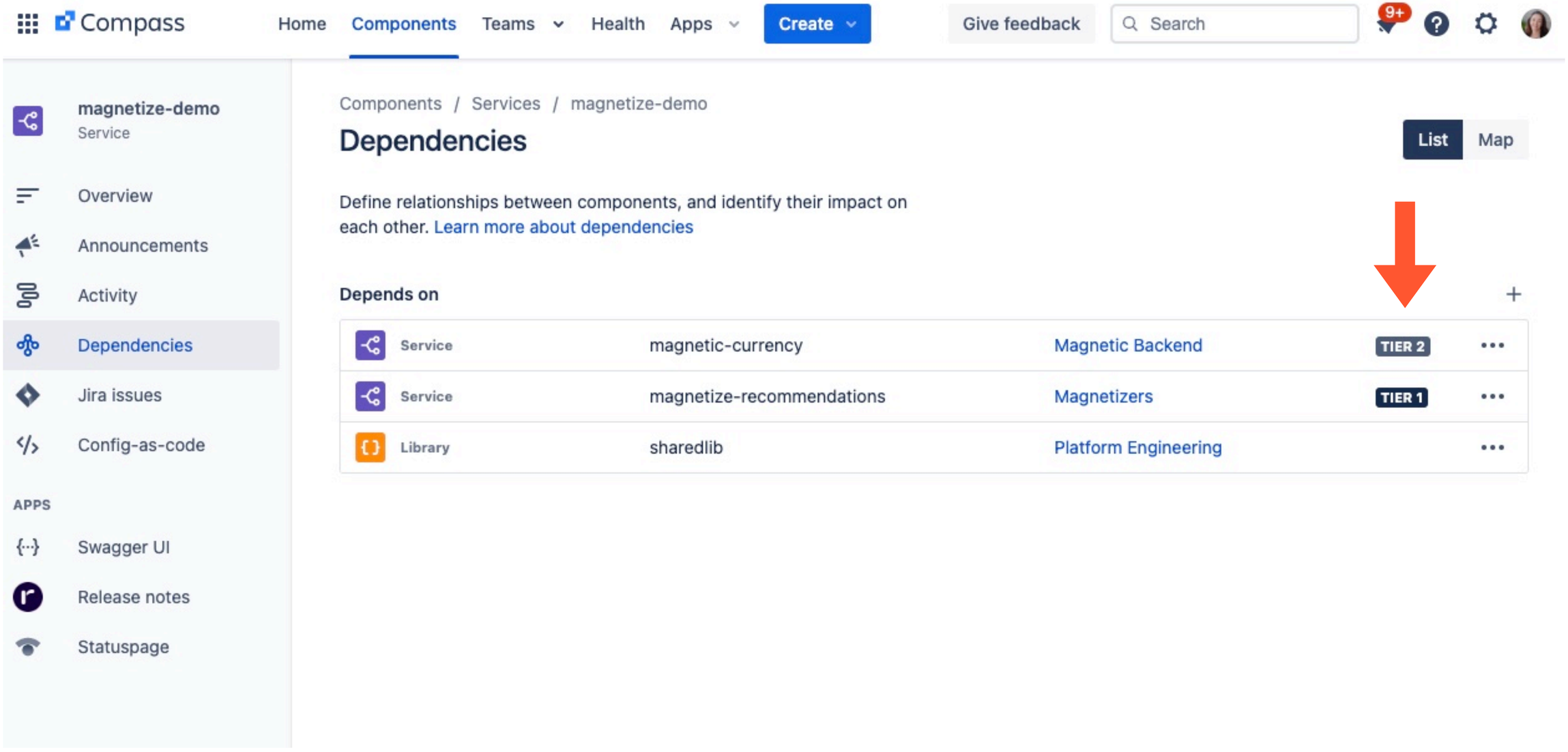
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Statuspage
Components / Services / magnetize-demo
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List
Map
Define relationships between components, and identify their impact on each other. Learn more about dependencies
Depends on
Service
magnetic-currency
Magnetic Backend
TIER 2
Service
magnetize-recommendations
Magnetizers
TIER 1
Library
sharedlib
Platform Engineering

FEATURE FLAG-DRIVEN DEVELOPMENT

Waterfall

Agile

Feature Flag-Driven (Lean)

Ticket

Build

Customer Testing

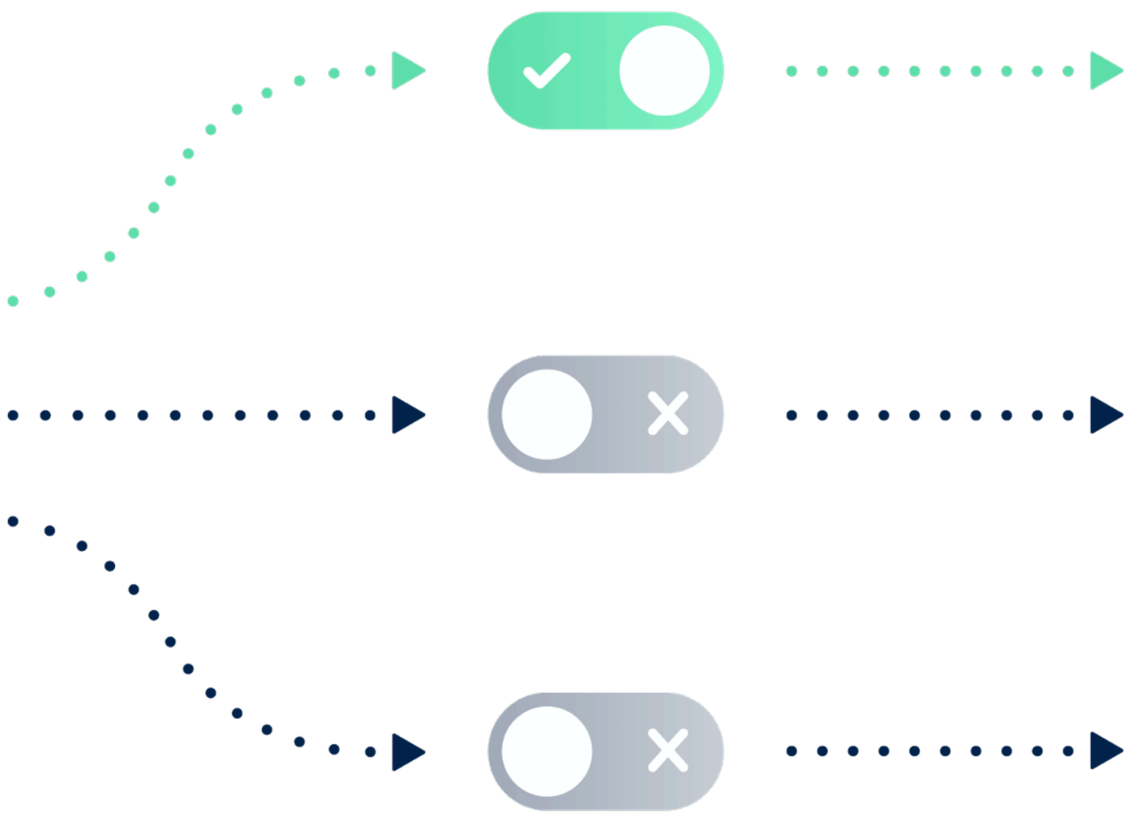
Deploy

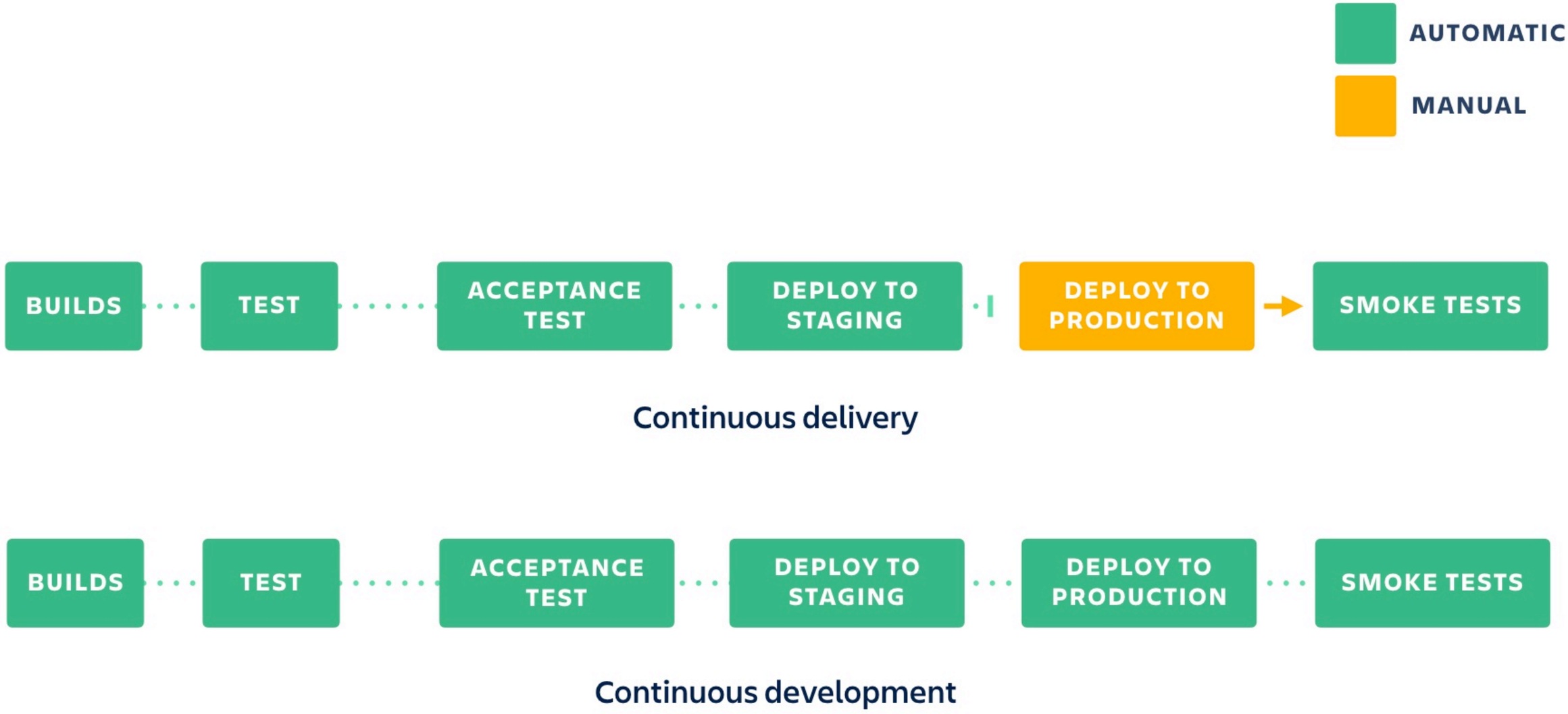
Market Feedback

New feature

Feature flags

Customers

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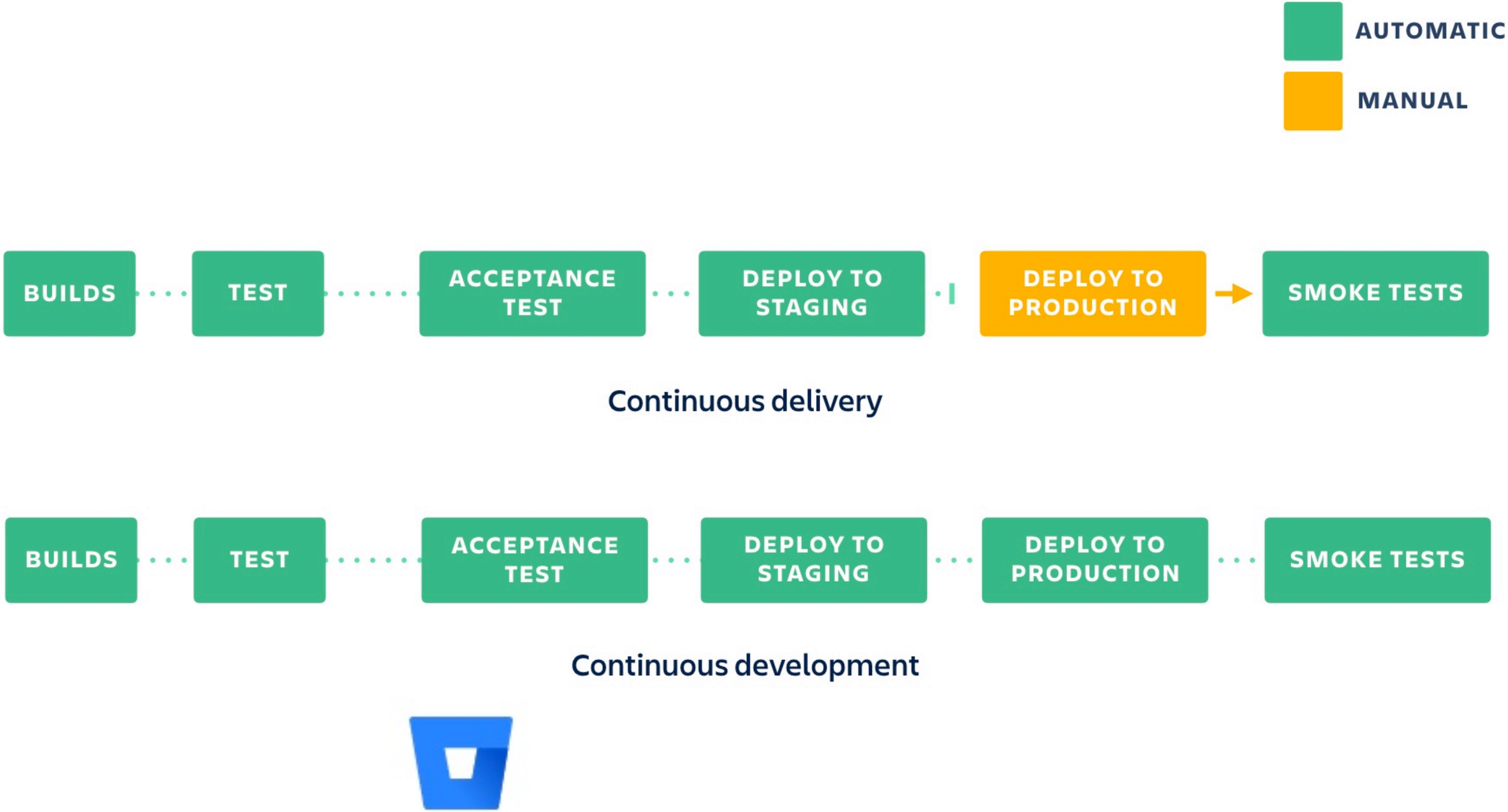
MANUAL
BUILDS
TEST
ACCEPTANCE TEST
DEPLOY TO STAGING
DEPLOY TO PRODUCTION
SMOKE TESTS
Continuous delivery
BUILDS
TEST
ACCEPTANCE TEST
DEPLOY TO STAGING
DEPLOY TO PRODUCTION
SMOKE TESTS
Continuous development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MANUAL
BUILDS
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Continuous delivery
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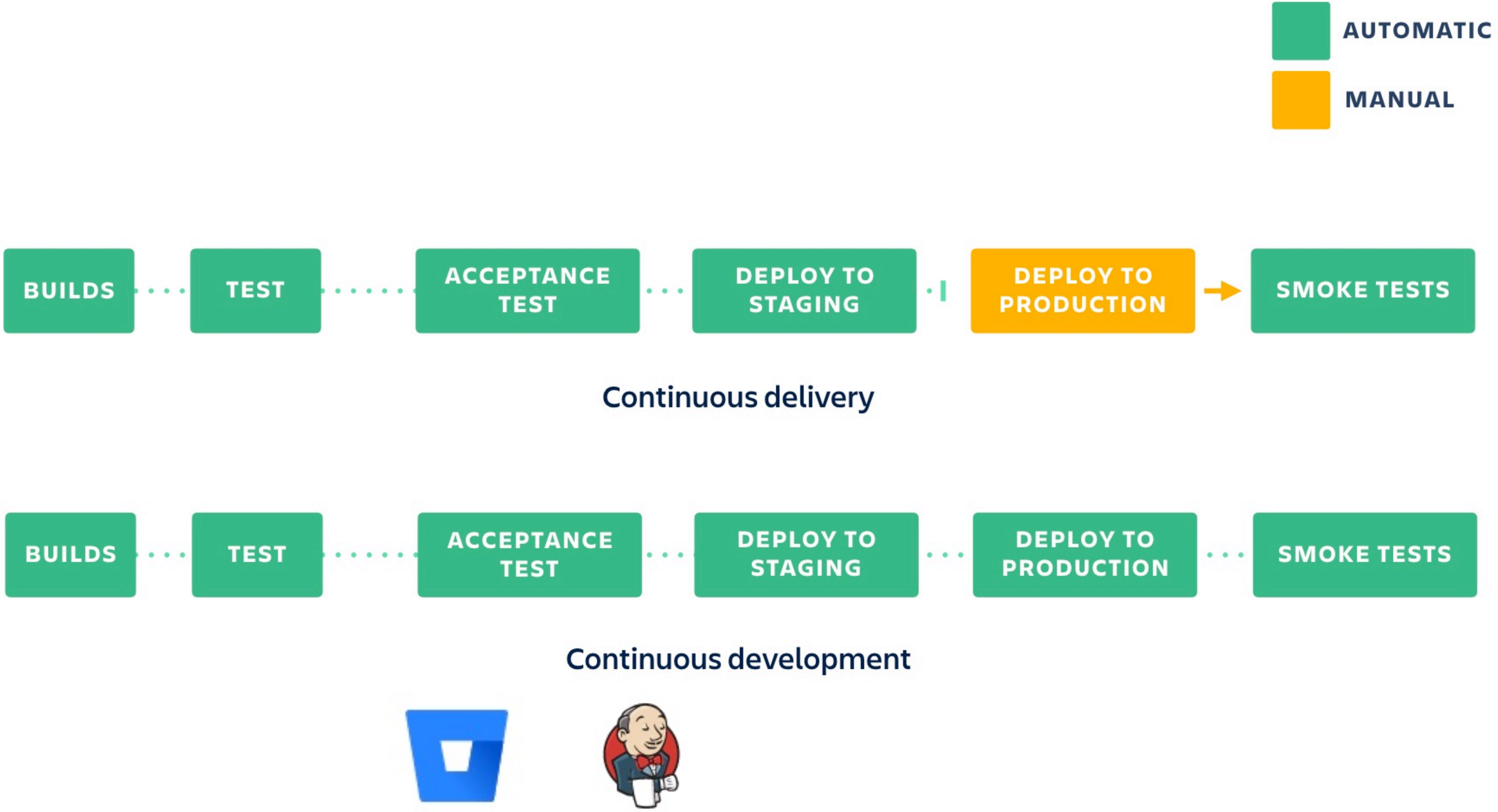
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MANUAL
BUILDS
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Continuous delivery
BUILDS
TEST
ACCEPTANCE TEST
DEPLOY TO STAGING
DEPLOY TO PRODUCTION
SMOKE TESTS
Continuous development

Continuous delivery

Continuous development

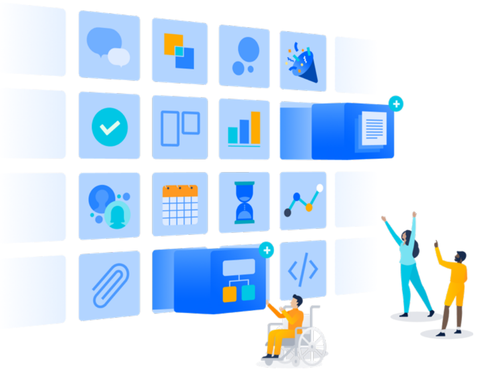
AUTOMATIC

MANUAL

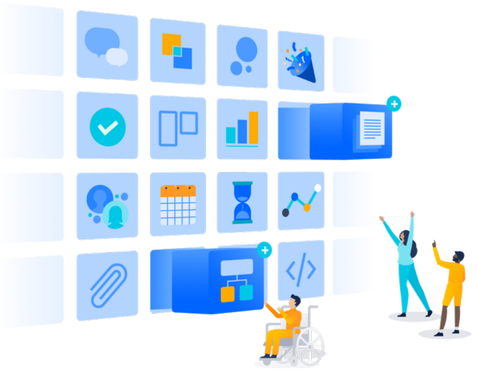
Continuous delivery

Continuous development

Putting it all together



Loosely coupled architecture

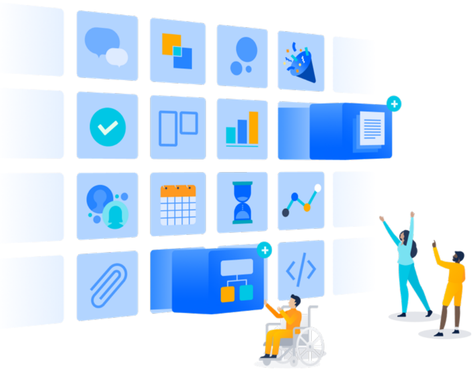


Loosely coupled architecture

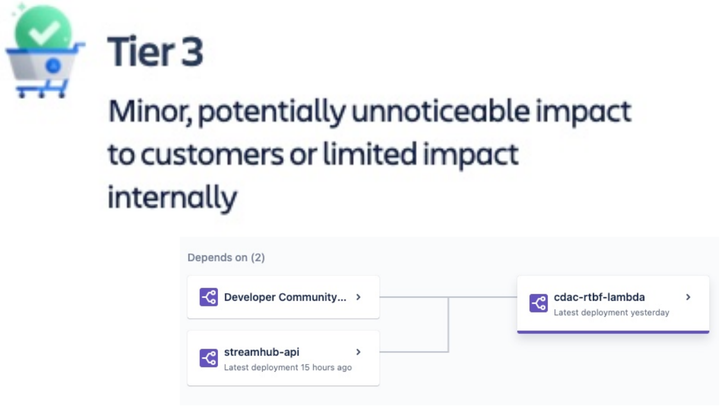
Tier 3

Minor, potentially unnoticeable impact to customers or limited impact internally

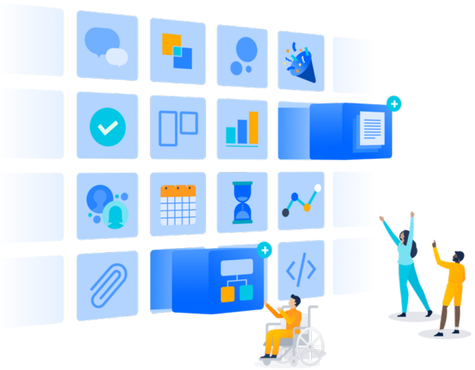
Low-risk service



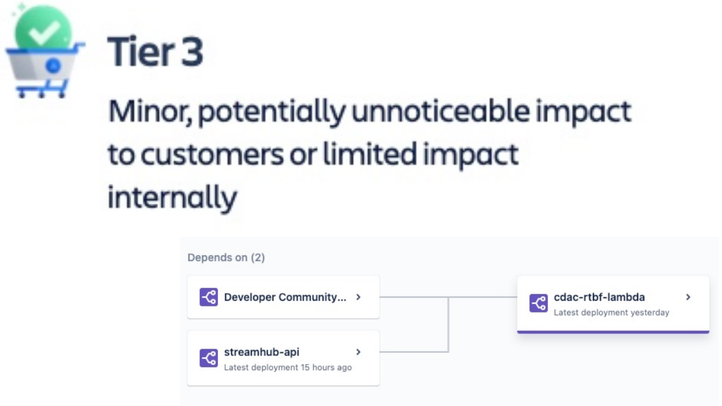
Loosely coupled architecture

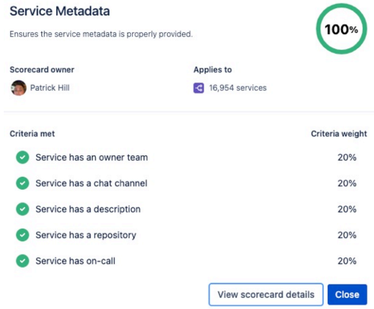


Low-risk service

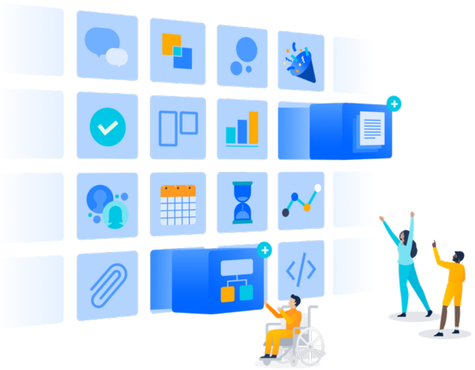


Loosely coupled architecture

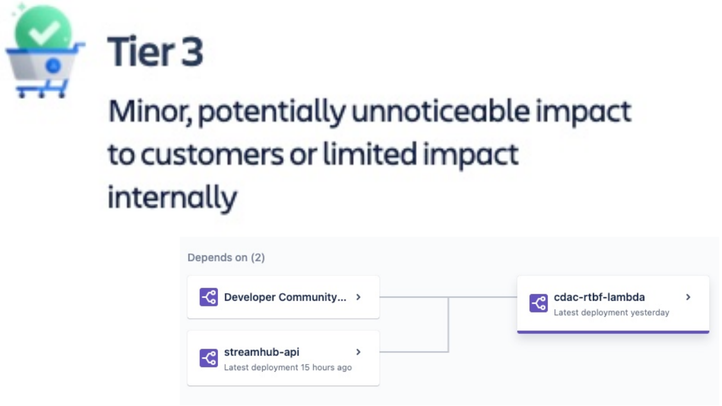




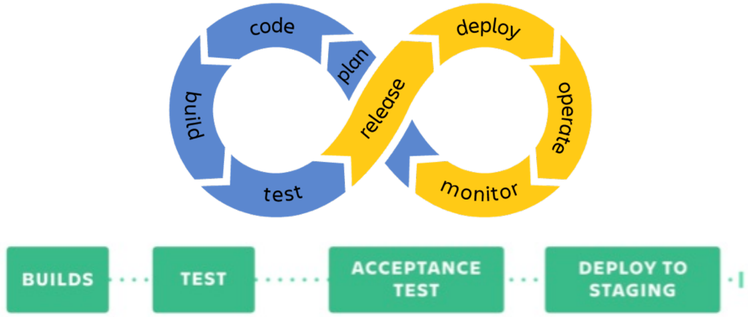
Low-risk service



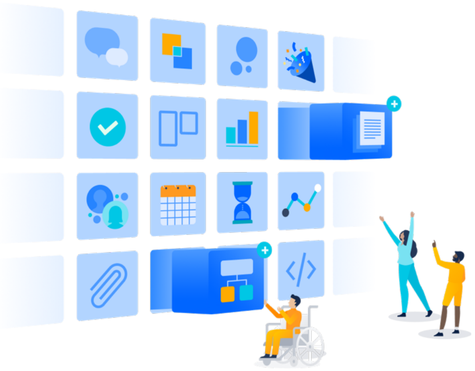
Loosely coupled architecture



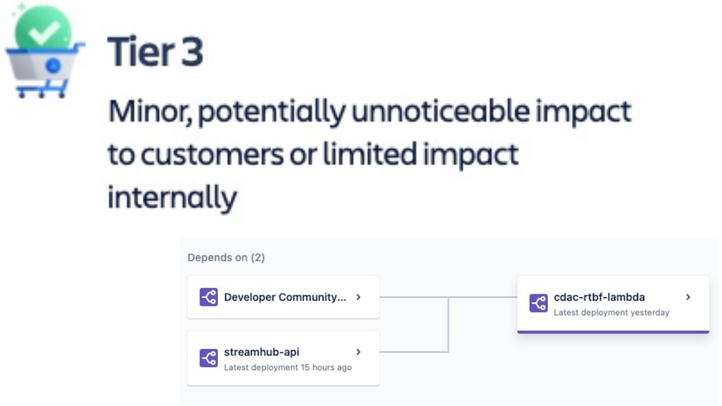
Low-risk service



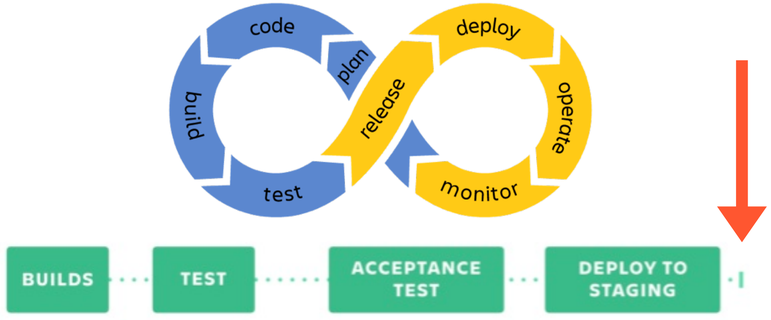
Continuous delivery



Loosely coupled architecture



Low-risk service



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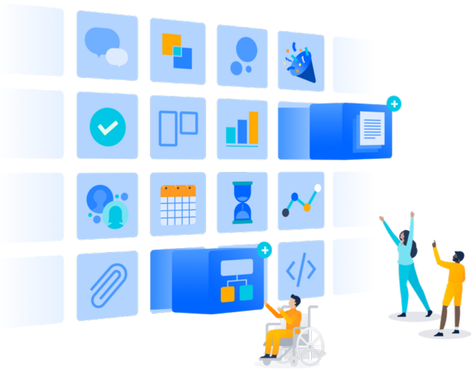
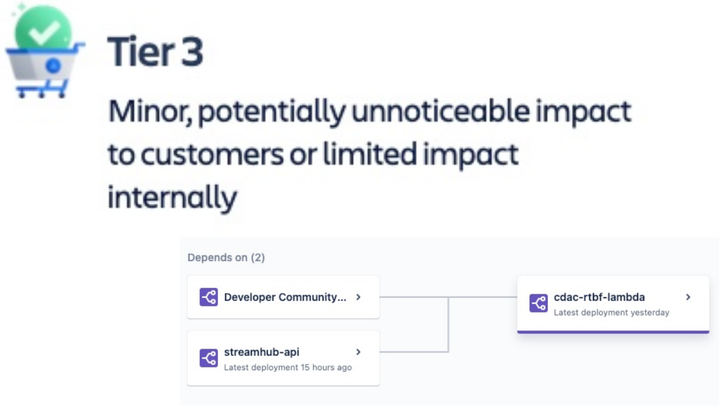
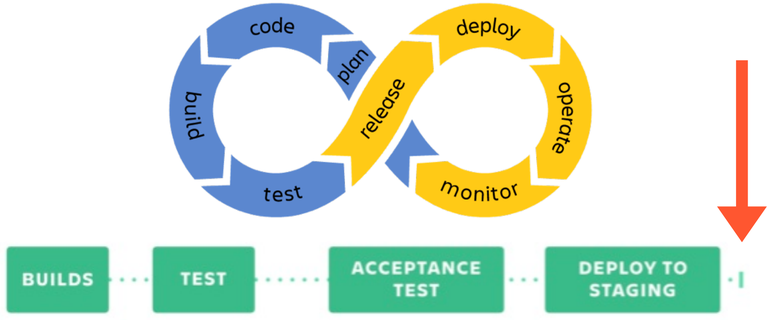


Loosely coupled architecture



Low-risk service



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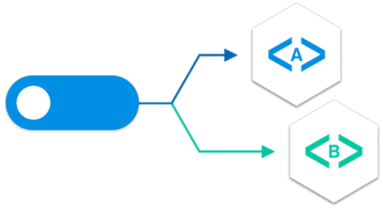
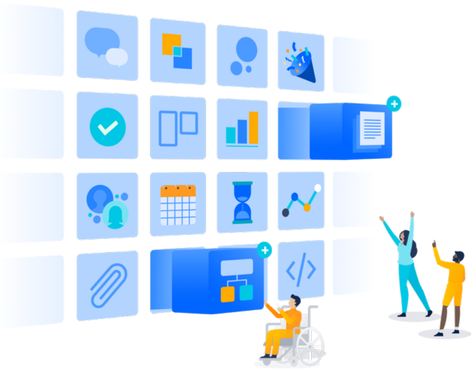
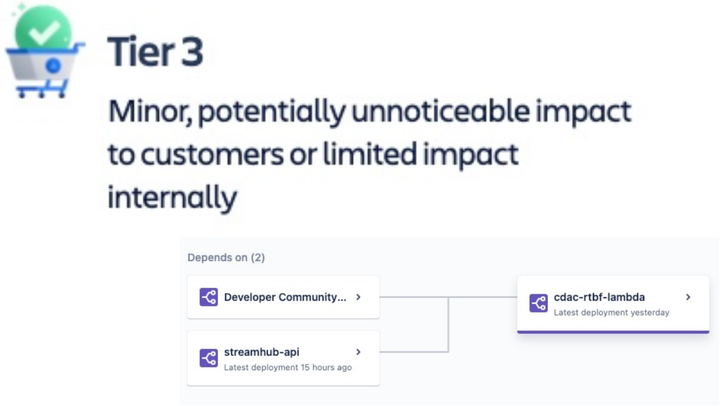


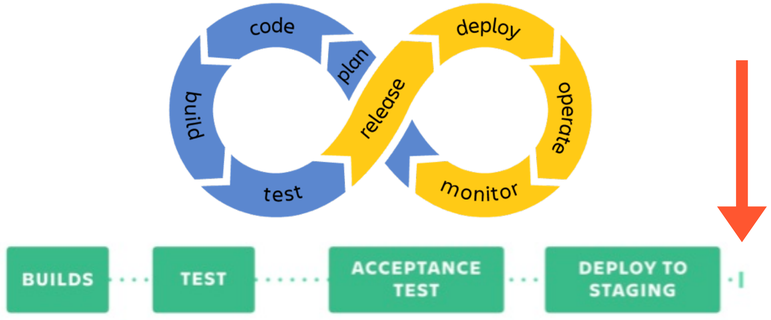
Feature flags



Loosely coupled architecture



Low-risk service



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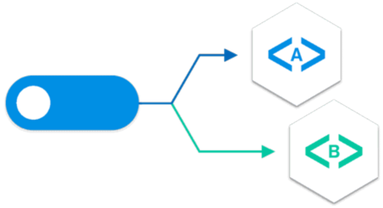

Feature flags

Change failure rate

Deliver value faster

Deliver value faster

Free up resources

MEASURE THE RIGHT THINGS

Focus on shipping, we'll take care of the rest

Get the foundation for DevOps right out of the box

Work where you want with our open tools approach

Automation keeps you focused on the things that matter

TOOLCHAIN OPTIMIZATION SERVICE

Interview

Analyze

Share

TOOLCHAIN OPTIMIZATION SERVICE

COMPASS OFFICE HOURS

ATLASSIAN Compass

Q & A

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