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# Mastering complexity in software delivery with Platform Engineering and Compass



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**Deliver high-quality  
software, fast.**

**What's driving this diversity  
in performance?**



Stage 1

Let's play a game

# Memory game

## Who

Batman



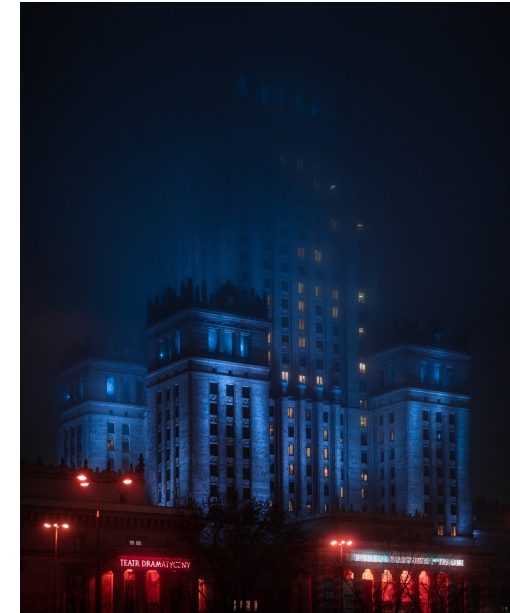
## What

Superhero



## Where

Gotham



# Who

Andrei Bocan



Mike Cannon-Brookes



# What

Principal engineer



Co-CEO



# Where

San Francisco



Sydney



Stage 1

Where does  
Batman live?

# Who

Batman



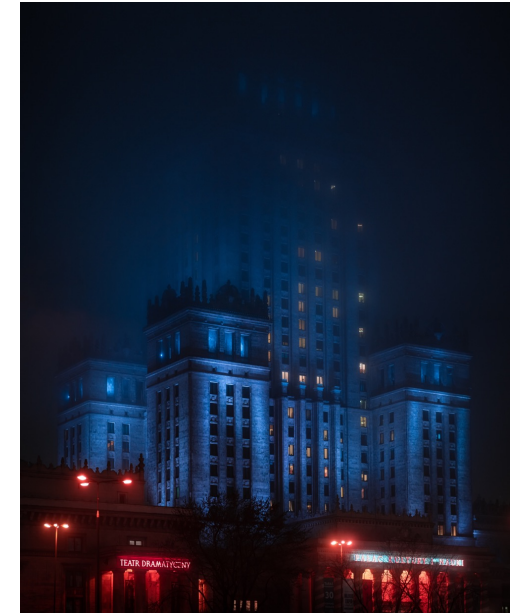
# What

Superhero



# Where

Gotham



# Stage 2



# Who

Spiderman



# What

Student



# Where

Queens



Buzz Lightyear



Toy



Andy's House





# Who

Grogu



# What

Unknown



# Where

The Razor Crest



Mickey



Wizard



Disneyland



Stage 2

What color was the symbol on  
Mike Cannon-Brookes' hat?

Mike Cannon-Brookes



Co-CEO



Sydney



# Stage 3

257895

928736

456852



## Stage 3

Which two fictional  
characters appeared in  
another person's row?

# Who

Andrei Bocan



# What

Principal engineer



# Where

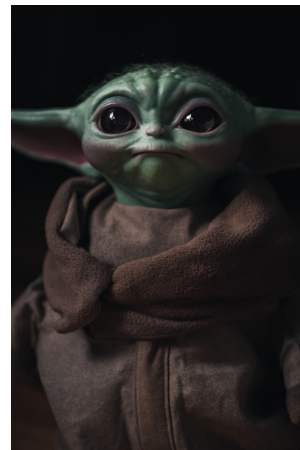
Springfield



Grogu



Unknown



The Razor Crest



# Who

Mike Cannon-Brookes



# What

Co-CEO



# Where

Sydney



Mickey



Wizard

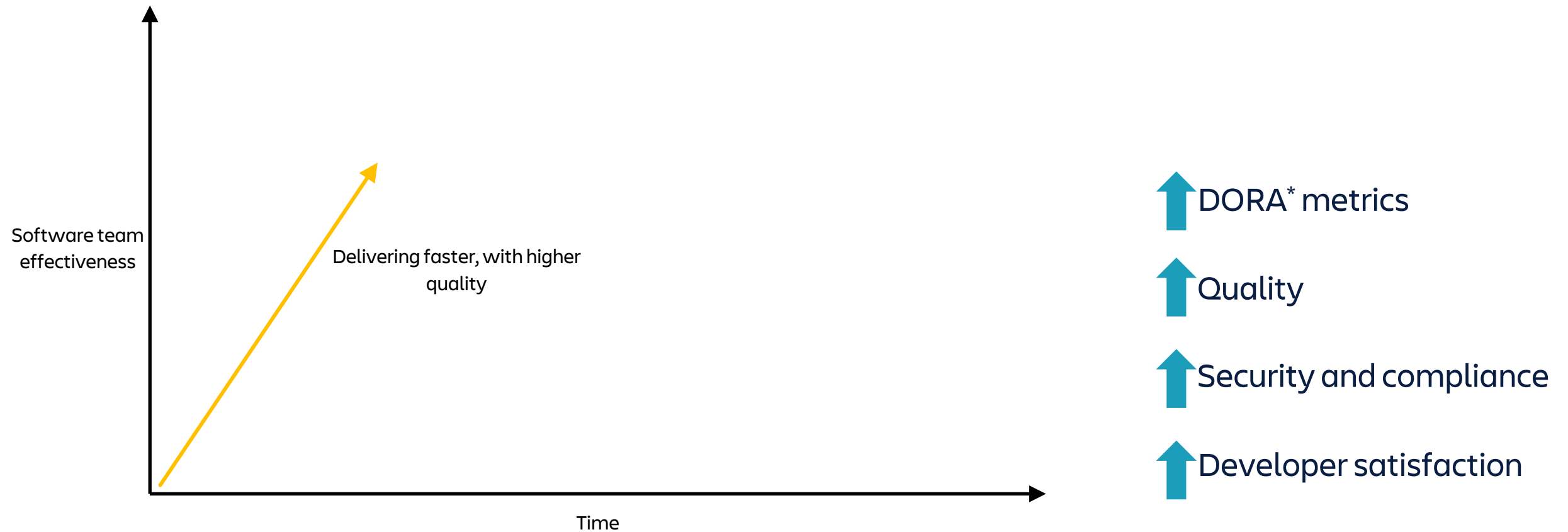


Disneyland



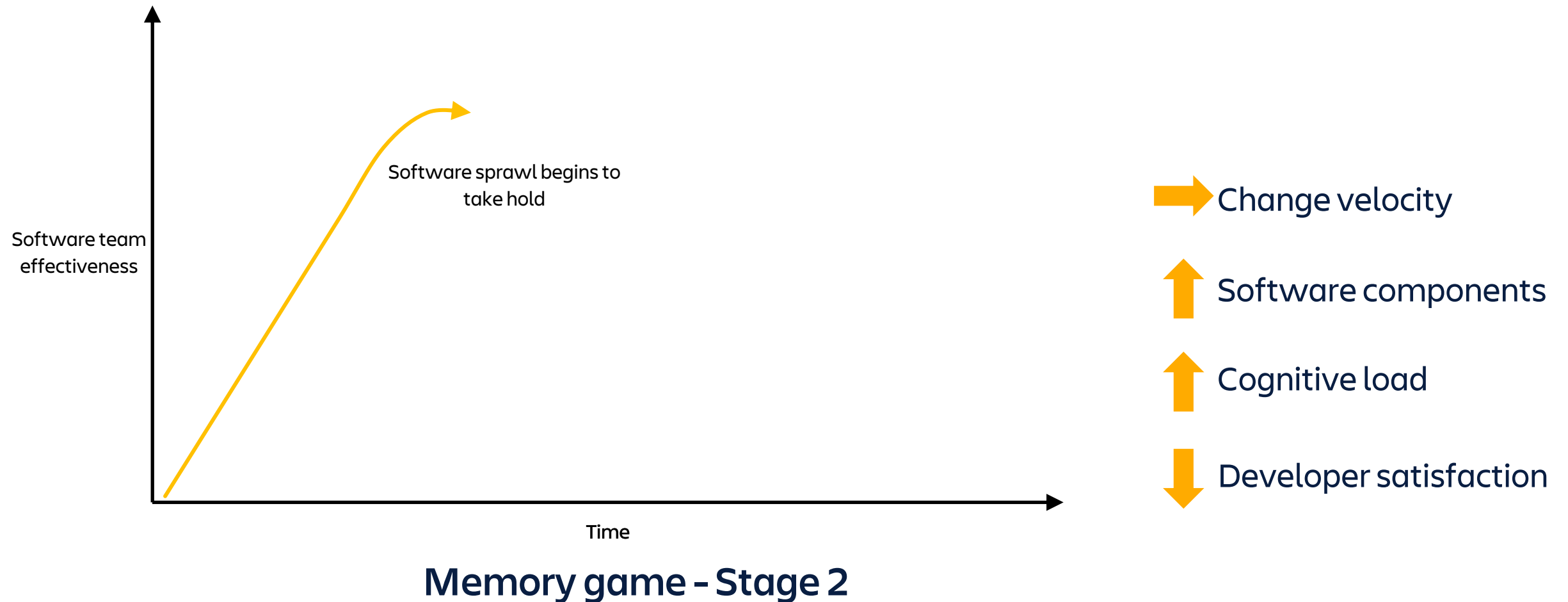
# Complexity in software delivery

# The Atlassian microservices journey

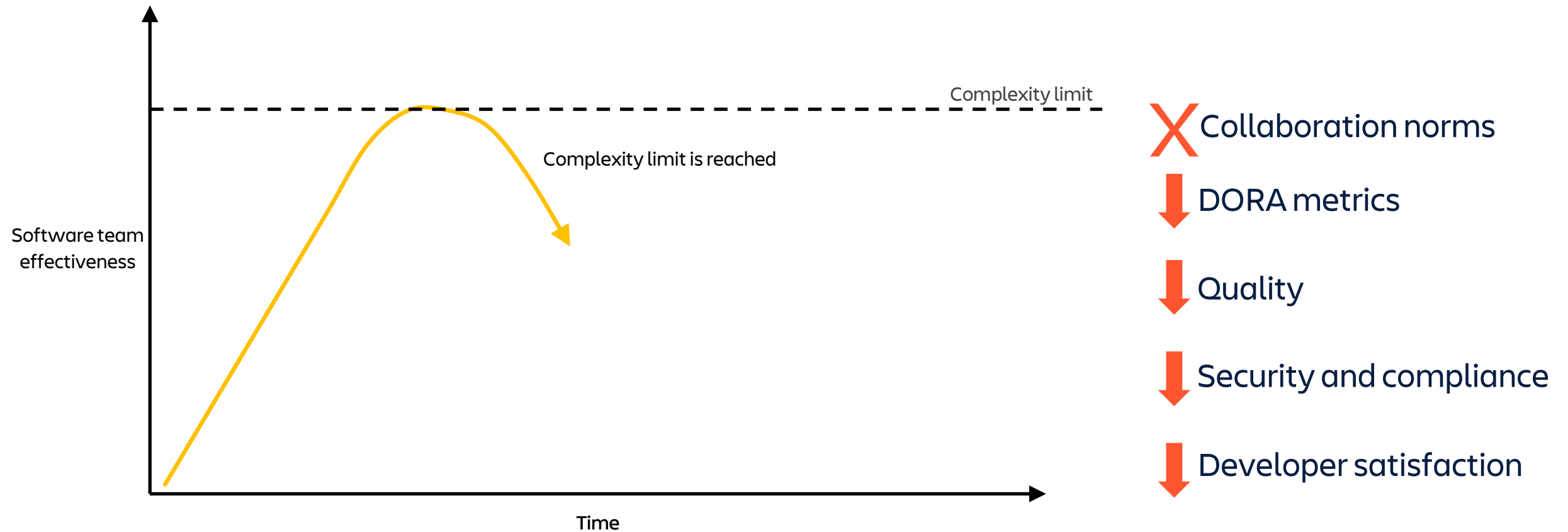


Memory game - Stage 1

# The Atlassian microservices journey



# The Atlassian microservices journey



Memory game - Stage 3



# Simplification is a losing strategy

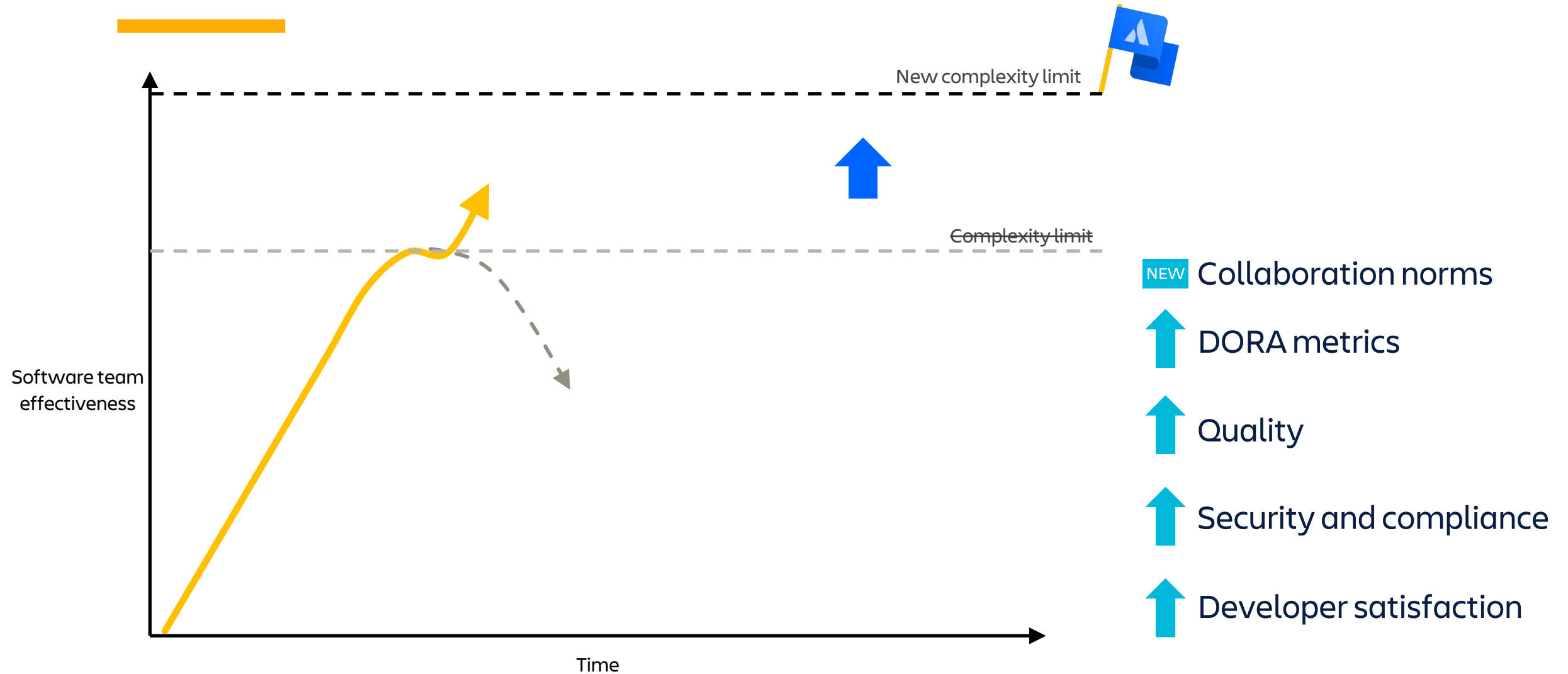
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- Complexity will grow faster than you can simplify.
- Simplification “projects” operate in the same complex environments that they aim to simplify.



What if we increase the  
complexity limit for  
software teams?

# The Atlassian microservices journey





**Reduces cognitive  
load for software  
teams**

## Who, what, where?

Teams no longer need to remember which team to engage, what the thousands of components do, or where to go for information.



## Requirements up front

Teams know up front the standards they need to meet, and can track compliance as they progress.



## Information on demand culture

Self-serve information leads to high value collaboration between teams when required.

**COMPLEX SYSTEMS**



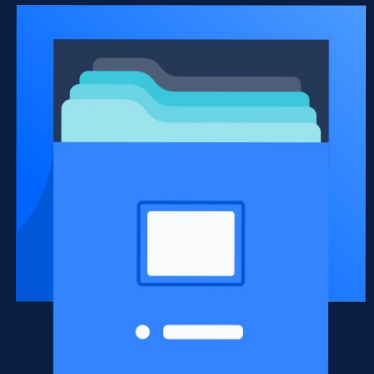
**New service**




## COMPLEX SYSTEMS

---

# Tracking software components





# COMPONENT CATALOG


 Compass BETA


[Home](#)


[Components](#)




[Teams](#) 


[Health](#) 

[Apps](#) 

[Create](#) 

 Search

 **Publishing Platform**  
Service

Overview

Announcements

Activity

Dependencies

Jira Issues

Config-as-code

APPS

LaunchDarkly

Statuspage

Swagger UI

Components / Services / Publishing Platform

**Publishing Platform**

Managed by compass.yml in Bitbucket • Latest deployed 52 minutes ago

Active

Tier 1

Description

Displays Eats Network web content.

Labels

epsilonweb eats-network

Activity

See all activity

30 Nov AM

20:0022:0000:0000:0002:0004:0006:0008:0010:0030 Nov PM

✓✓✓✓✓✓✓✓✓

Scorecards

64% DevOps Health  
NEEDS ATTENTION

49% Engineering Security  
NEEDS ATTENTION


+ Apply scorecard

Metrics

Pull Request Cycle Time  
10hr 37min

Deployment Frequency  
23 25 deploys/week

Owner team

 +2 Epsilon

Chat Channels

#epsilon-pub-plat

On call

Opsgenie

Epsilon OG

On-call now • Level 1

Tanya Kandemir

April 20, 2023 at 04:00 PM - April 27, 2023 at 04:00 PM

Repositories

Eats-Tweets-LLC/publishing-platform  
Updated on April 20, 2023

Eats-Tweets-LLC/CDK-Infra  
Updated on April 18, 2023

eats-network/publishing-content  
Updated on April 19, 2023

Projects

Publishing Platform

Documentation



# COMPONENT CATALOG

Compass

BETA

Home

Components

Teams

Health

Apps

Create

Q

Search

?

Components

CreateImport

Q

Search component information

Type










Tier

Owner team

Label

Scorecard

702 components

Component	Description	Tier	Owner team	Scorecards
 card-authorization	This service decides which requests are allowed access to the card...	TIER 3	Epsilon	2 FAILING
 cc-pipeline-support-app	cc-pipeline-support-app		Sigma	ALL PASSING
 blackline-app	blackline-app between Trello DB and Blackline SFTP		Alpha	ALL PASSING
 People Data Platform (Socrates)	Central record for the People Data Platform catalog	TIER 1	Beta	2 NEEDS ATTENTION
 perms-echo-go	Parent for Perms and Perms-canary microservices		Epsilon	ALL PASSING
 og-ci16-apps-alert-service	og-ci16-apps-alert-service	TIER 2	Alpha	ALL PASSING
 Identity Management			+ Add owner team	2 FAILING
 Publishing Platform		TIER 1	Epsilon	ALL PASSING
 Tweet Processing			Alpha	ALL PASSING

# Creating a new service

# Component templates



Ownership



Metadata



Discoverability

# TEMPLATES

Compass

BETA

Home

Components

Templates

Teams

Health

Apps

Create

Search

Templates

Create template

Search

Category

Owned

Templates created and owned by you and Magnets Inc.

Compass Spring Boot Template

Owned by Magnets Inc

An opinionated Java or Kotlin template that offers a Micros service using Spring Boot with compatible health checks and JSON logging.

Java

Spring

Use

Atlassian UI Platform Starter Kit

Owned by Crux Engineering

Delivers UI Platform's greatest hits pre-assembled - supercharging application development, and with presets for UIP capabilities.

Typescript

UI

Relay Starter

Owned by Vega

Monorepo template (seed project) configured with GraphQL API, PostgreSQL, React, Relay, Material UI.

Typescript

UI

All

ASPNET Core React Template

Owned by Trello Eng

ASP.NET Core 3.1 / React SPA template app

Spring Boot Orbital

Owned by Micros

A Maven Spring Boot template with Atlassian's Orbital assets bootstrapped.

Python Flask

Owned by Crux Engineering

A Python template that offers a Micros service with compatible health checks, JSON logging and supports Python 3 via Docker.

# SCORECARDS

Compass

BETA

HomeComponentsTeamsHealthAppsCreate

Publishing Platform

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Managed by compass.yml in

Active

Description

Displays Eats Network

Labels

epsilonwebeats-

Activity

Scorecards

DevOps Health

NEEDS ATTENTION

64%

Metrics

Connect metric

Service Readiness

67%

This scorecard is for preparing your services to be tracked in a production environment.

Scorecard owner

Jenny Smith

Applies to

304 services

Criteria not met

Repository

Add a repository to your component

Criteria met

Owner team

Added

Description

Added

Chat channel

Added

View scorecard details

Close

# SCORECARDS

Compass

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Active

Tier 1

Description

Displays Eats Network web content.

Labels

epsilonweb

eats-network

Activity

See all activity

Scorecards

64%

DevOps Health

NEEDS ATTENTION

40%

Engineering Security

FAILING

100%

Service Readiness

PASSING

+ Apply scorecard

Matrics

Own

Chat

On ca

Opsge

E

On-ca

T

A

0

Repos

E

L

E

U

e

U

Projec

P

Docu

# Disaster recovery planning



Spreadsheet



Emails



Messages



Walking



# Disaster recovery planning



Spreadsheet



Emails



Messages



Walking

# Disaster recovery planning



Spreadsheet



Emails



Messages



Walking

# Disaster recovery planning



Spreadsheet



Emails



Messages



Walking

# DISASTER RECOVERY PLANNING

## Scorecard

×

Onboarding

Criterion type

Field

Field

Dashboard

Weight

33

%

×

Validation

A specific link is added (regex)


Regular expression (regex)

Troubleshooting

Criterion type

Metric

Metric

 Pull Request Cycle Time

Weight

33

%

×

Operator

Less than

Value

600

min

Criterion type

Field

Field

Documentation

Weight

1

%

×

Validation

A specific link is added (regex)

Regular expression (regex)

Disaster Recovery



# DISASTER RECOVERY PLANNING

Scorecard

CheckOps

Reporting

Compass <span>BETA</span> <span>Home</span> <span>Components</span> <span>Teams</span> <span>Health</span> <span>Apps</span> <span>Create</span> <span>Search</span>				
Scorecards				
<div><div></div>Service Readiness</div>				<div>Edit scorecard</div>
This scorecard is preparing your services to be tracked in a production environment.				
Low scores				
Component name	Description	Owner team	Score	
<div><div></div>async-email-v2</div>		Sigma	<div></div>	33%
<div><div></div>Delivery Repository</div>		No owner team	<div></div>	33%
<div><div></div>Identity Management Service</div>	Identity management and ancillary	Sigma	<div></div>	66%
<div><div></div>ingestion-service</div>	A service that ingests tweets	Epsilon	<div></div>	99%
<div><div></div>Aggregation Service</div>	Filters and aggregates inbound events	Alpha	<div></div>	99%
<div><div></div>Publishing Portal</div>	Allows publishing and updating Eats	Beta	<div></div>	99%
<div><div></div>Administrative Portal</div>	Publishing platform administrative	Beta	<div></div>	99%
<div><div></div>Diagnostics Service</div>	The service is used to send diagnostic	Alpha	<div></div>	100%
<div><div></div>Delivery Service</div>	Delivers messages to customers	Alpha	<div></div>	99%
<div><div></div>Publishing Platform</div>	Displays Eats Network Web content	Epsilon	<div></div>	99%
<div><div></div>Rendering Service</div>	Render media for customers engaging	Alpha	<div></div>	100%



# Incidents



3:00 AM

Alerting tool

Monitoring tool

Find dashboard

Determine faulty service

Find runbook

Logging tool

Figure out service owner

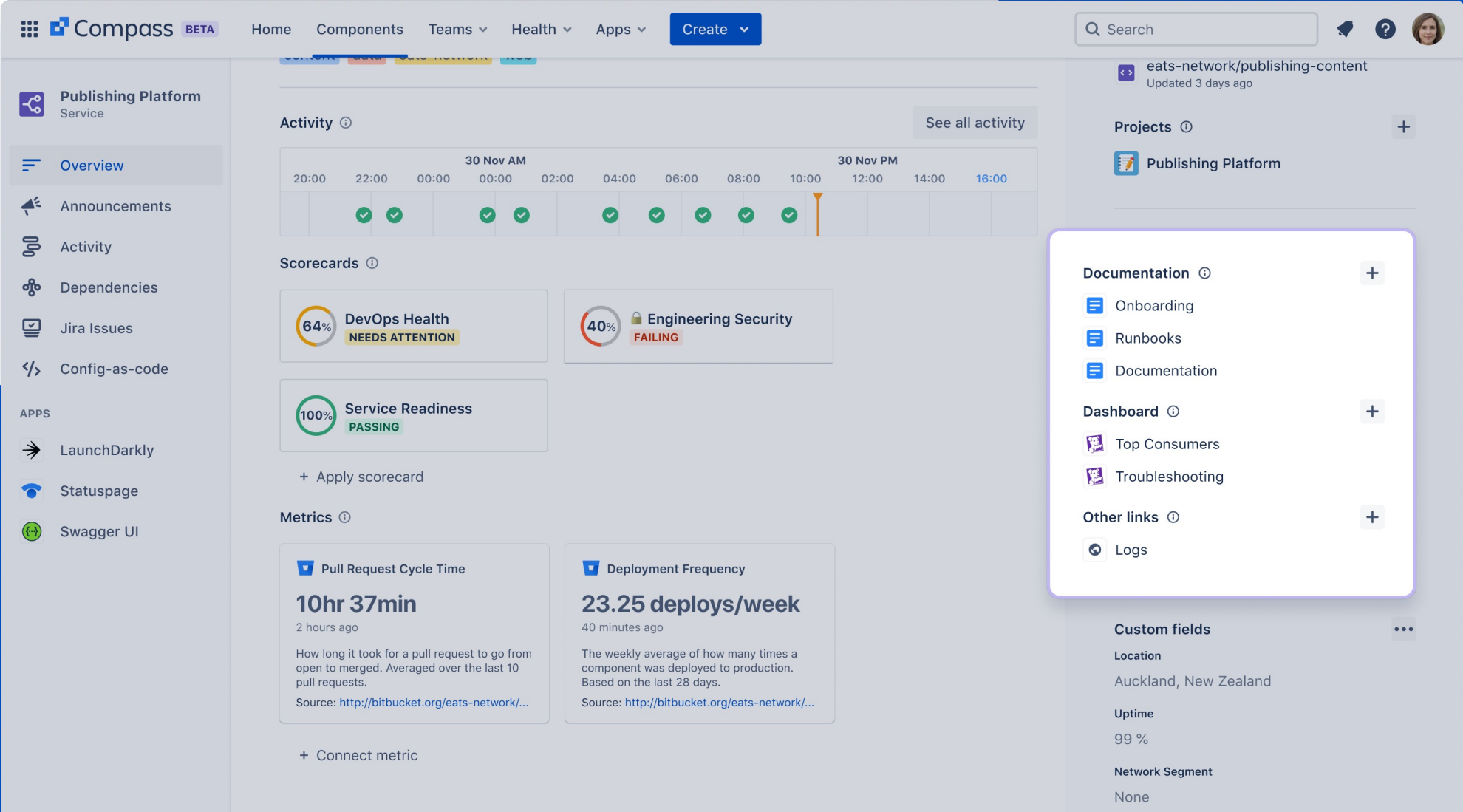
Contact service owner



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# DOCUMENTATION



# OWNERSHIP

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Active

Tier 1

Description

Displays Eats Network Web content and data.

Labels

epsilonwebeats-network

Activity

20:0022:0000:0000:0002:0004:0006:0008:0010:0012:0014:0016:00

✓✓✓✓✓✓✓✓✓

Scorecards

64%

DevOps Health

NEEDS ATTENTION

40%

Engineering Security

FAILING

100%

Service Readiness

PASSING

+ Apply scorecard

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Last commit 4 days ago

Eats-Tweets-LLC/CDK-Infra

Updated on October 18, 2021

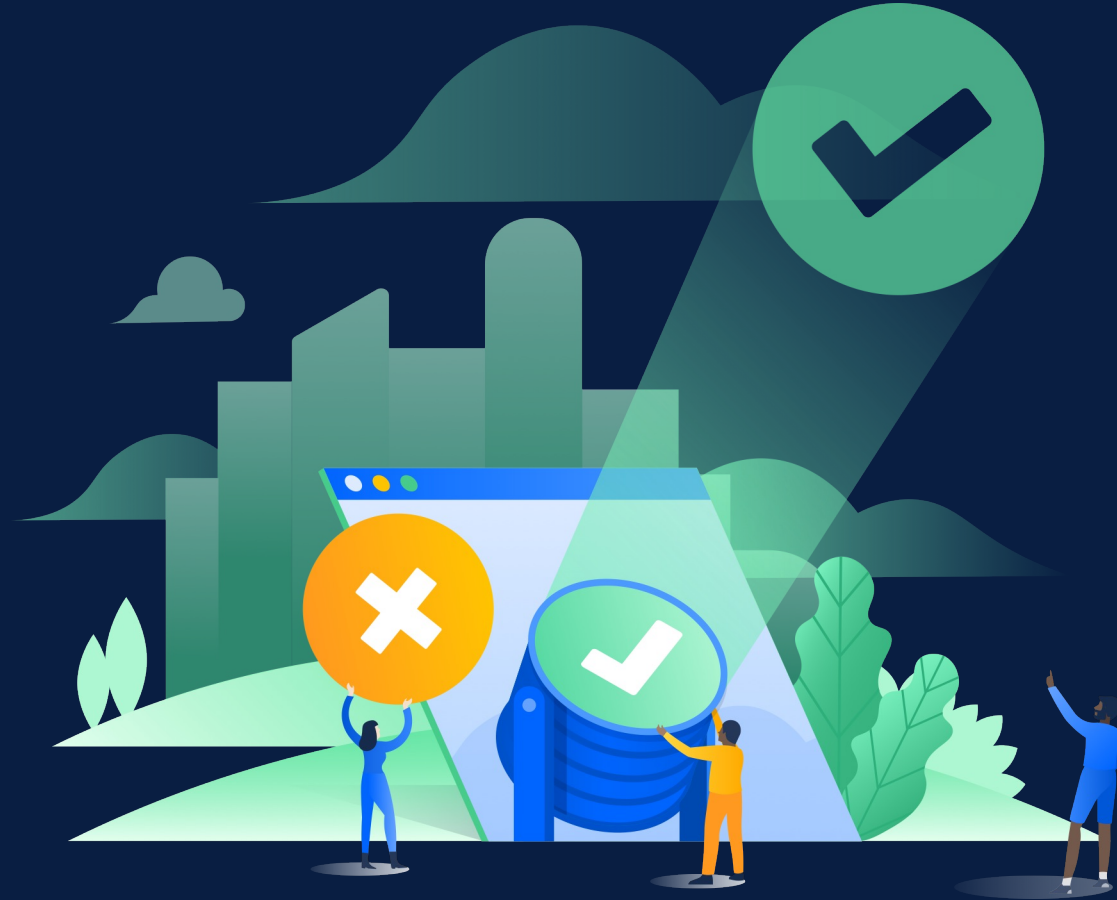
eats-network/publishing-content

Updated 3 days ago

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# Unlock the potential of software teams with Compass



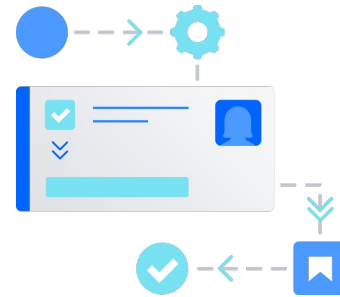
## Catalog

Single pane of glass  
for all information



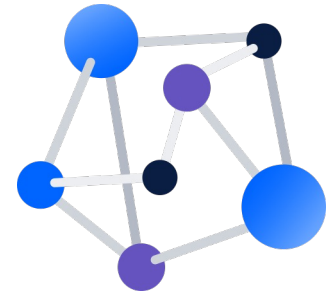
## DevOps Health

Build quality  
software at speed



## Templates

Self-service access  
to infrastructure



## Ecosystem

Highly extensible  
with marketplace



# Panel discussion



**Clemens Reijnen**

Global CTO Cloud and  
DevOps leader,  
Sogeti-Capgemini



**Preeti Kota**

Head of Engineering –  
Compass, Atlassian



**Andrew Boyagi**

Senior Technical  
Evangelist,  
Atlassian





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Thank you!