

📅 9/1 DevOps企業實戰

📅 9/2 DevOps技能精進

📍 集思台大會議中心

DEVOPS 2015

開發敏捷與維運高效的IT新典範

DevOps 叢林裡的小隊游擊戰術

The Survival Guide for Small Team in DevOps Jungle

Cheng Wei Chen @  DEVOPS 2015

DevOps 叢林裡的小隊游擊戰術

The Survival Guide for Small Team in DevOps Jungle

DevOps Taiwan



DevOps Taiwan

DevOps Taiwan

DevOps Taiwan

公開社團 · 792位成員

<https://www.facebook.com/groups/DevOpsTaiwan/>



留個言吧……



William Yeh

3小時

今天在 DevOps 2015 Taiwan 的演講投影片：

DevOps 2015 Taiwan 的演講投影片



動態消息



交友邀請



Messenger



通知



更多



#general



hhuang 4:09 PM

我還沒決定，想先 Review 一下
2014 年的內容，和 2015 會講的主
題再決定



william_yeh 6:20 PM

今天在 DevOps 2015 Taiwan 的演
講投影片：

<https://devopstaiwan.slack.com/>

Whoscall 的 Realtime Monitoring
經驗分享

Whoscall 的 Realtime Monitoring 經
驗分享 from William Yeh



steven 6:44 PM



Message

Cheng Wei

DevOpsTW/chat



DevOpsTW/chat @@



wang-steven

10:11

沒用過 rspec,你沒設 timeout 嗎



hSATAC

12:53

肯定是死了
或卡在什麼地方



<https://gitter.im/DevOpsTW>



SammyLin

13:59

好喔 我等等再來看看



SarsTW

21:24

@qrtd Akami 業務有來我們公司推銷過，可惜
我們流量還不夠大

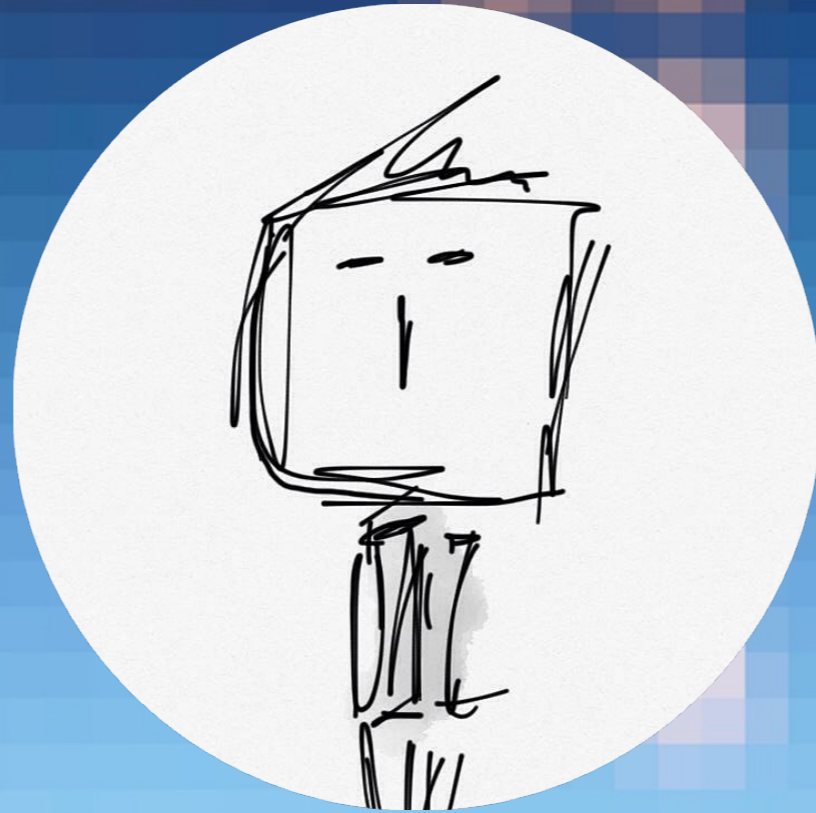


CREATE A ROOM



Click here to type a chat message. Supports GitHub
flavoured markdown.





Cheng Wei Chen 陳正璋

DevOps Engineer @ 得寬科技

<http://chengweichen.com>



The Qwan Technology Co. Ltd.

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A detailed black and white illustration of a dense jungle. The scene is filled with large, gnarled trees, thick vines, and various tropical plants. In the center, a blue circle is overlaid, containing the text 'DevOps' in a white, serif font. The overall style is reminiscent of a classic woodcut or engraving.

DevOps




DevOps



定義

DevOps

The background is a detailed, textured illustration of a dense forest. A path leads from the foreground towards the center, where a skeleton is visible. The overall color palette is dark and earthy, with shades of brown, tan, and black, creating a somber and mysterious atmosphere.

定義

DevOps

領域

定義

DevOps

工具

領域



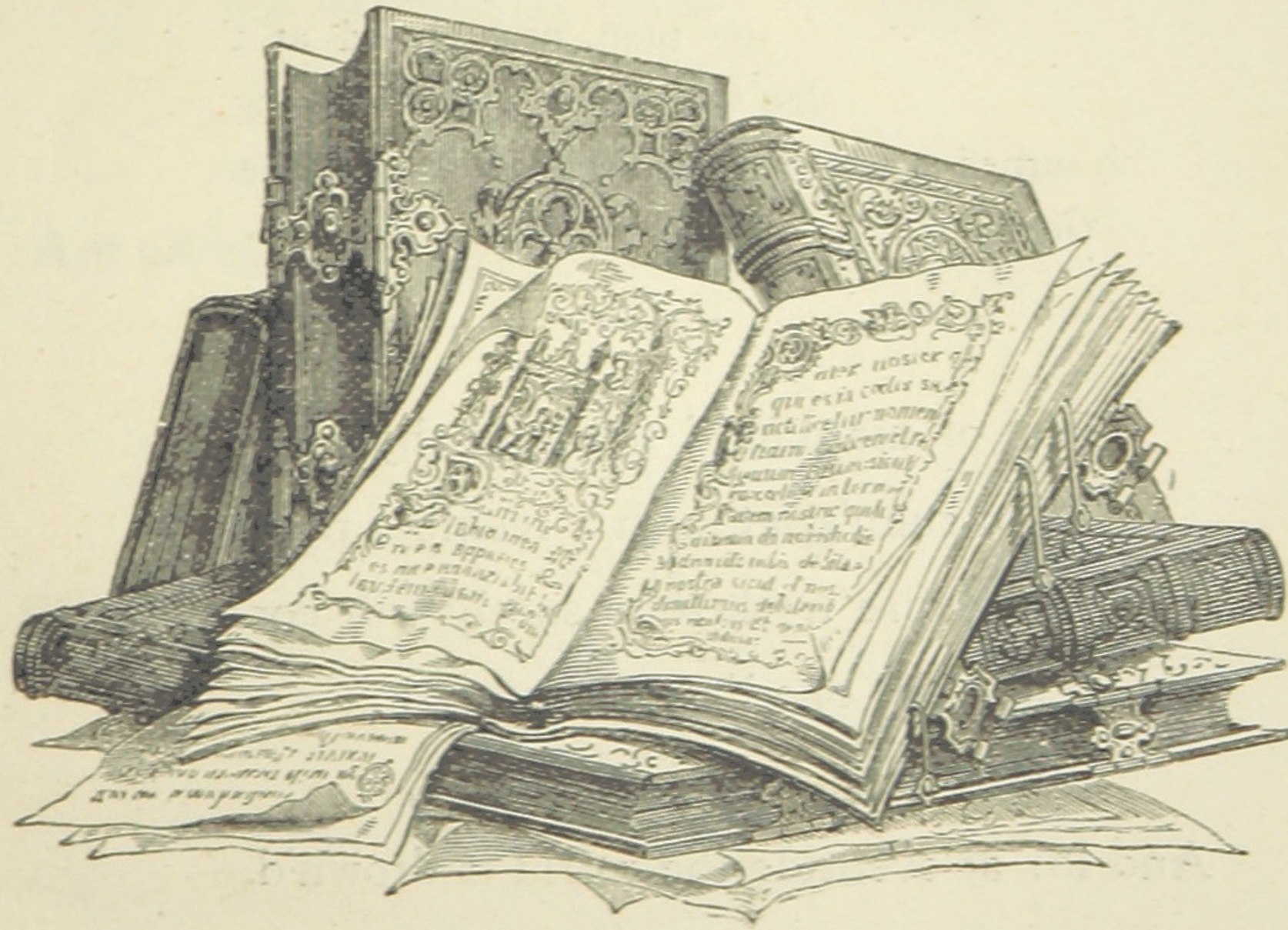
定義

DevOps

工具

領域

Survival Guide



Survival Guide

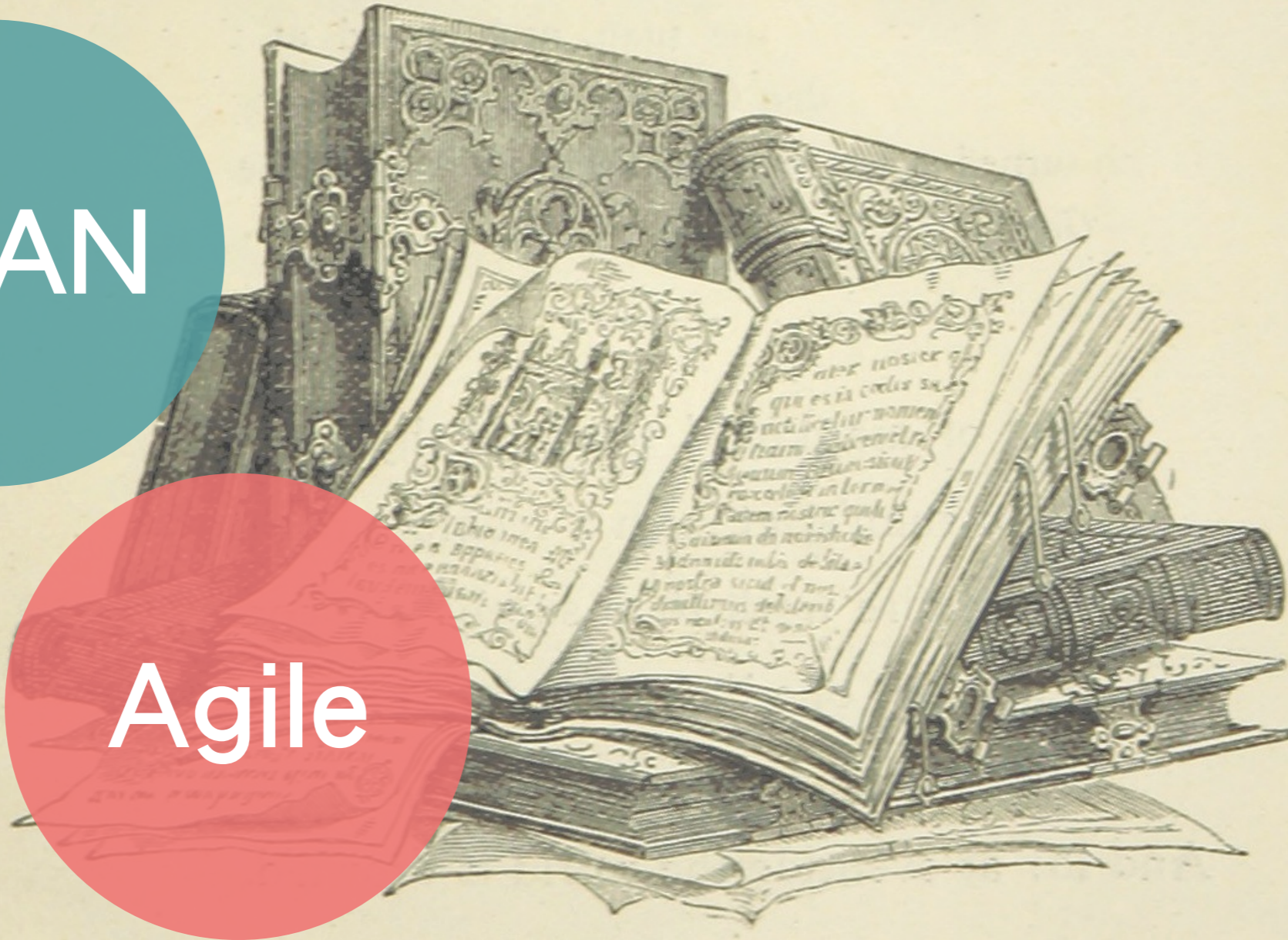
LEAN



Survival Guide

LEAN

Agile



Survival Guide

LEAN

Continuous
Integration

Agile

Survival Guide

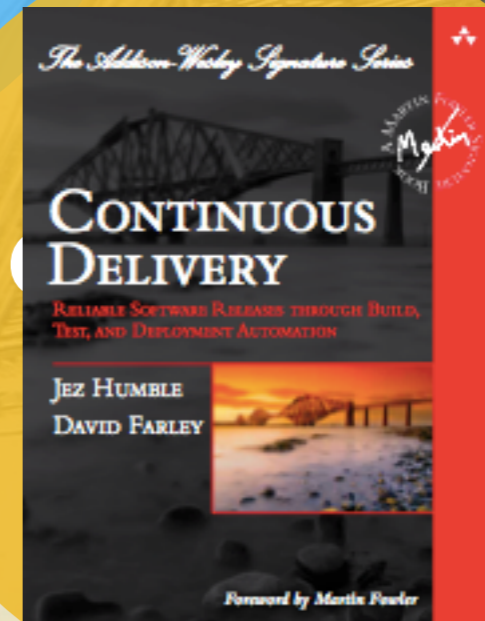
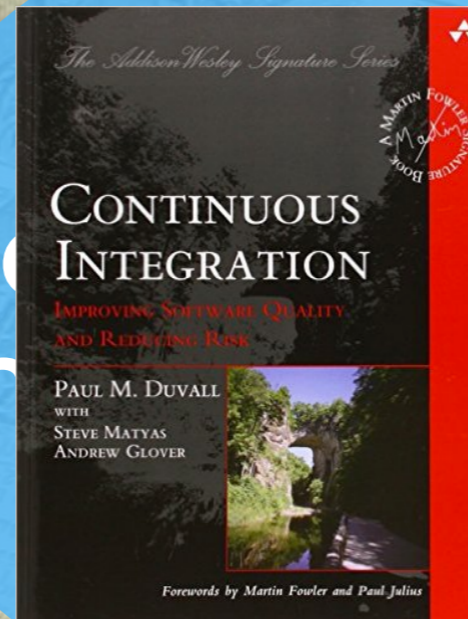
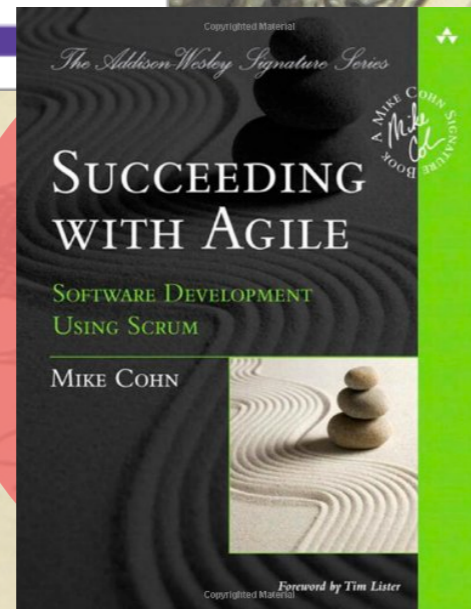
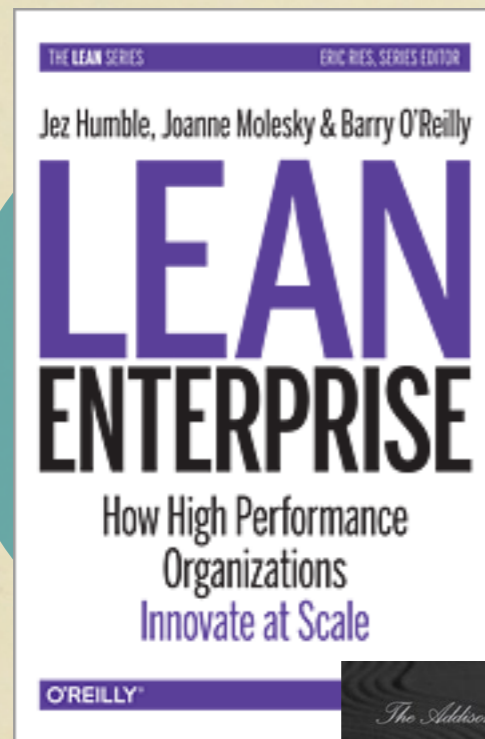
LEAN

Continuous
Integration

Agile

Continuous
Delivery

Survival Guide



puppet labs®

2015

STATE OF

DevOps

REPORT

In Partnership with

IT REVOLUTION

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來源: <http://puppetlabs.com/2015-devops-report>

The IT Revolution

DevOps Guide

**Selected Resources to
Start Your Journey**

Roadmap



Roadmap

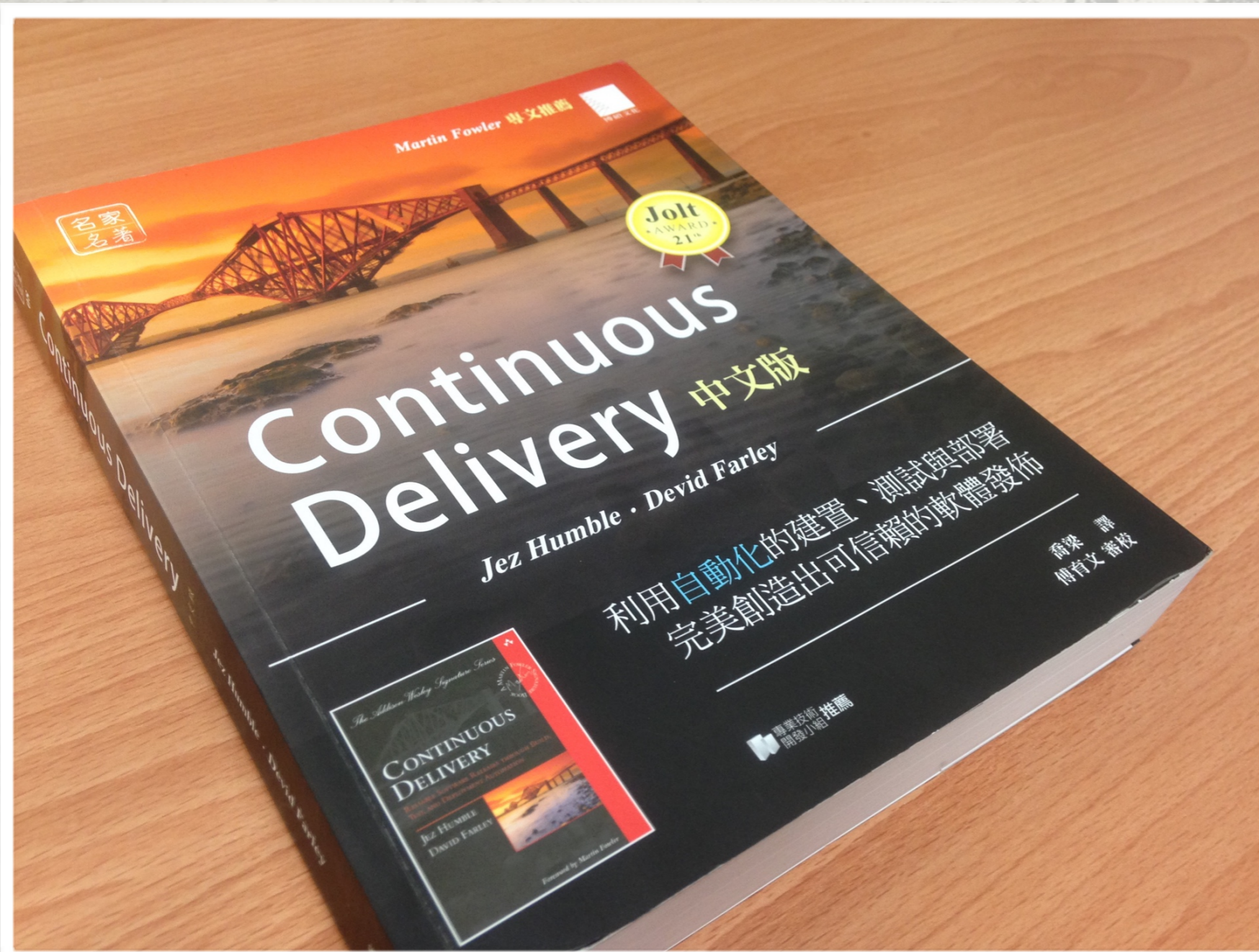
Software Value Stream

Workflow

Development Pipeline

.....

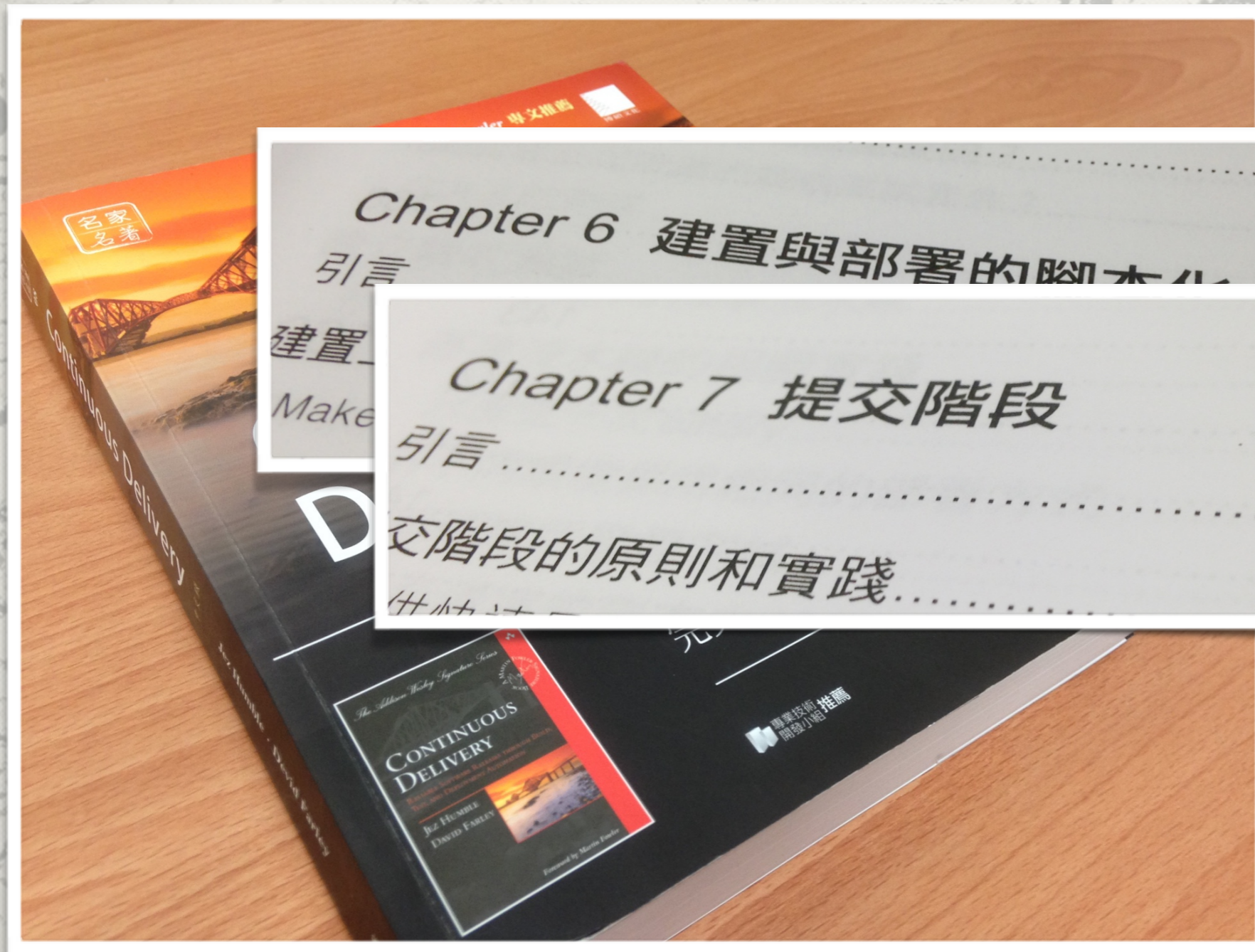
Roadmap



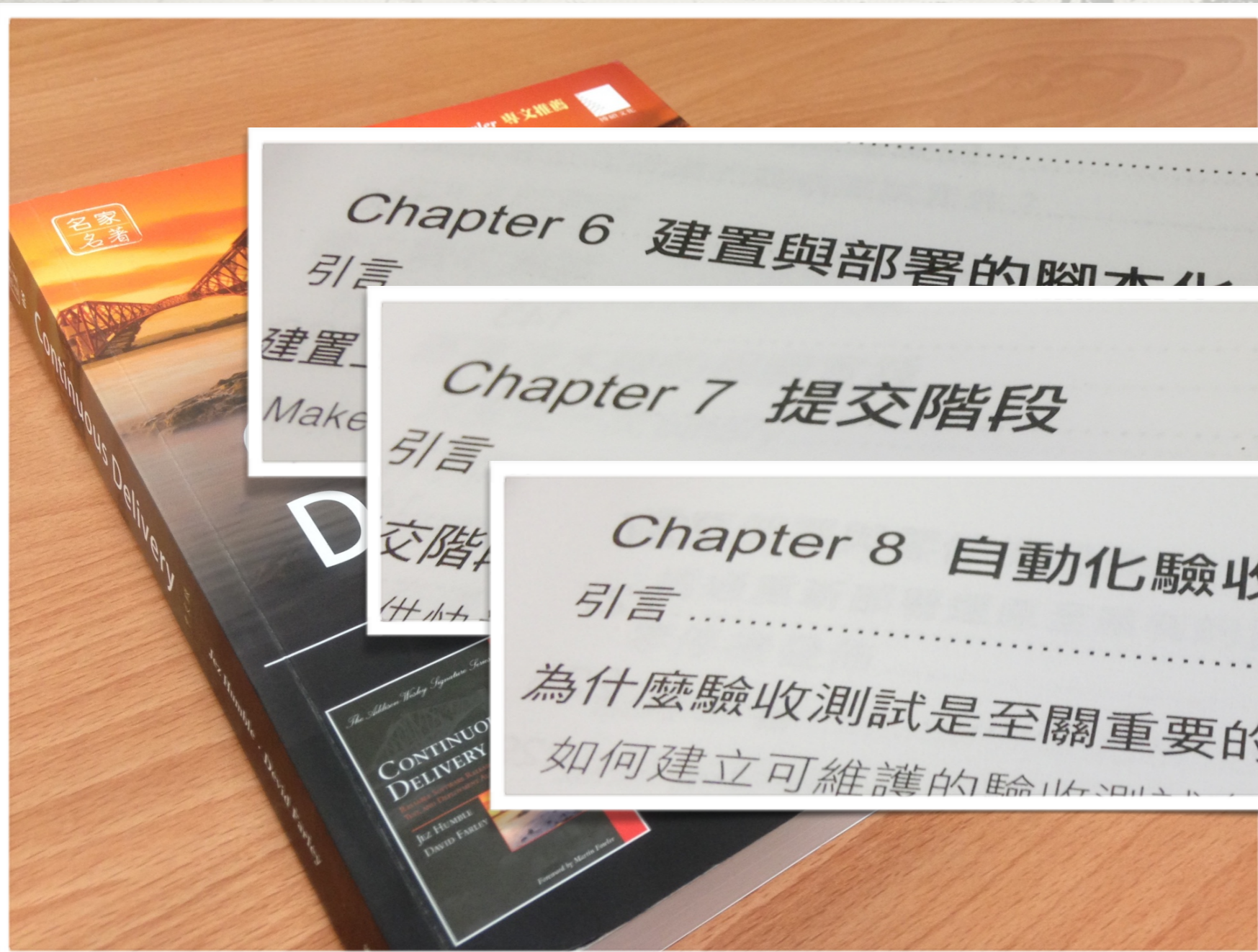
Roadmap



Roadmap



Roadmap



Chapter 6 建置與部署的脚本化
引言

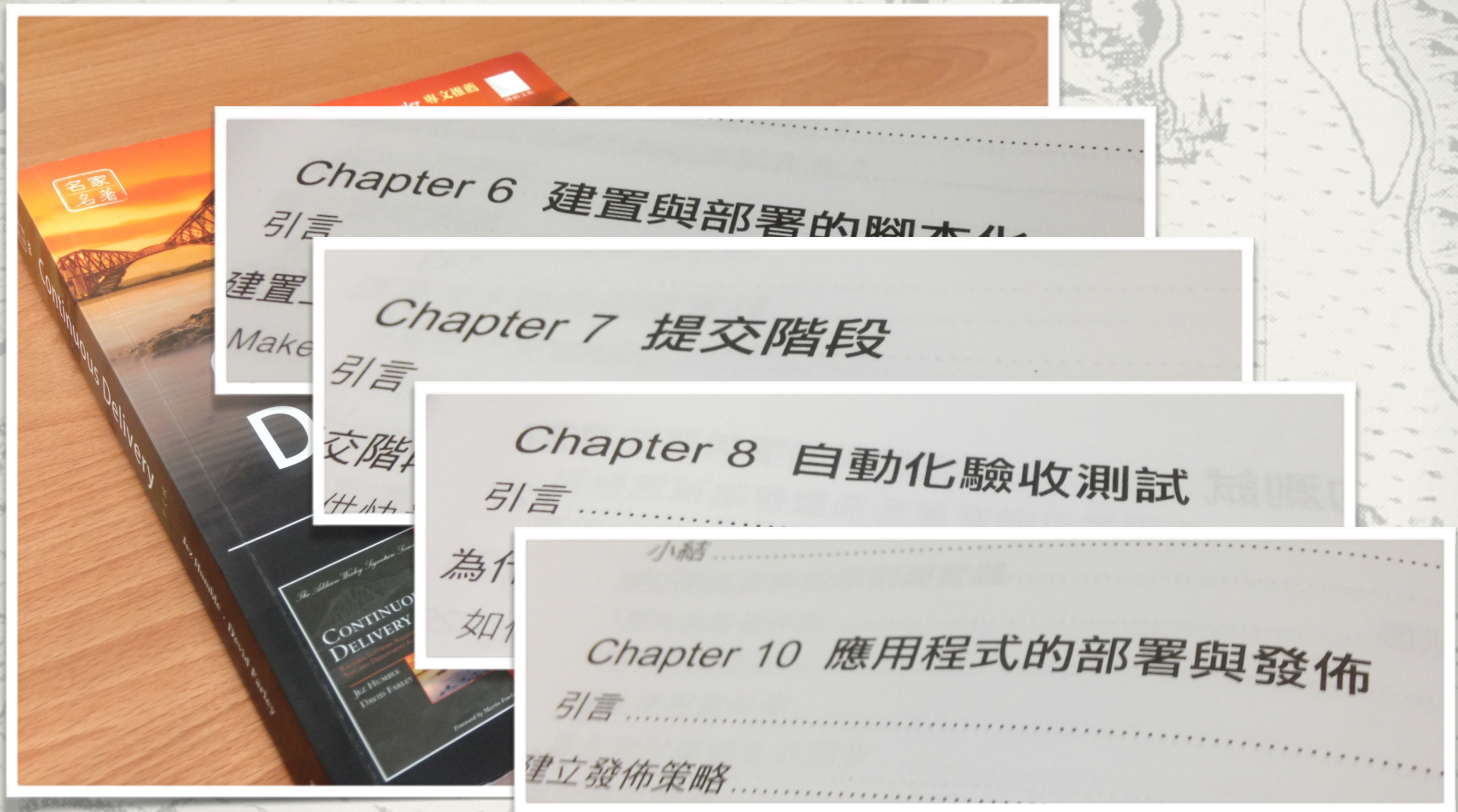
Chapter 7 提交階段
引言

Chapter 8 自動化驗收測試
引言

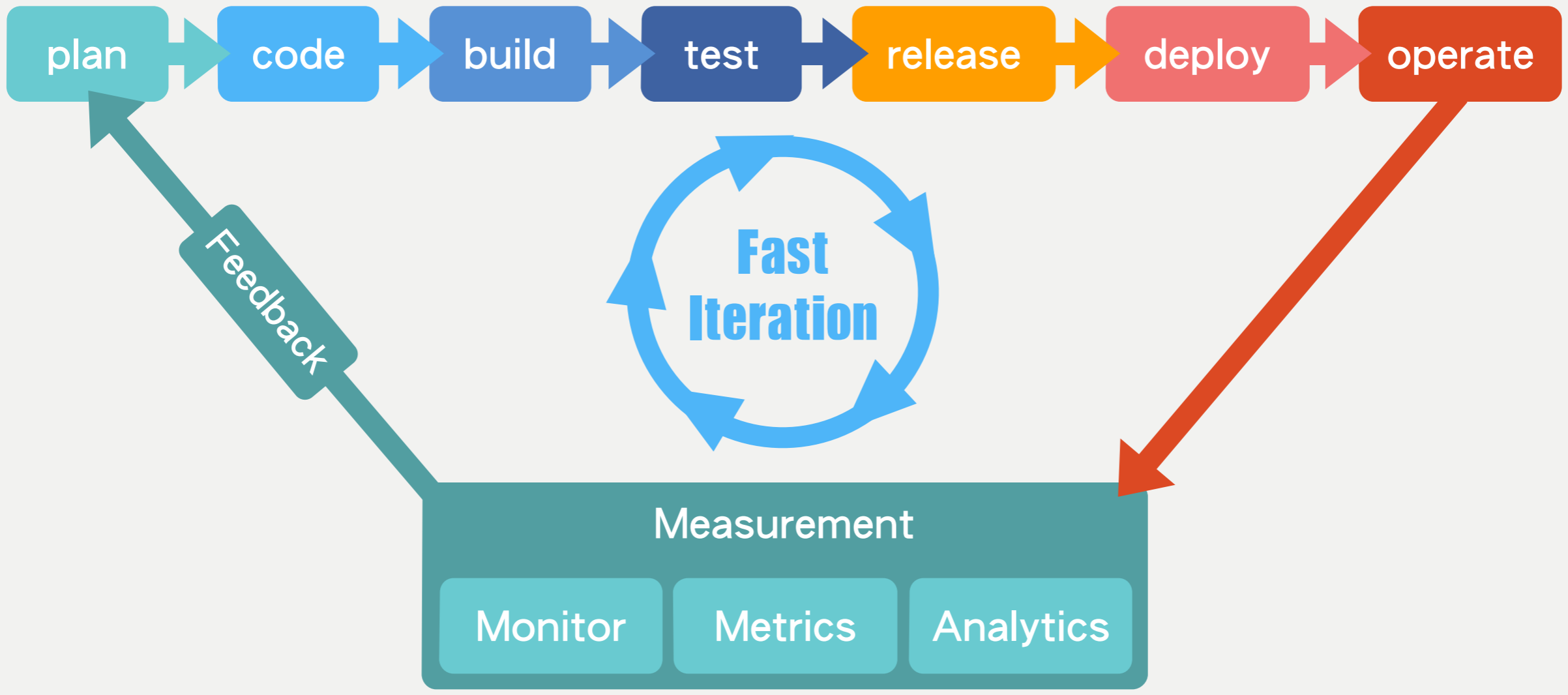
為什麼驗收測試是至關重要的？

如何建立可維護的驗收測試

Roadmap

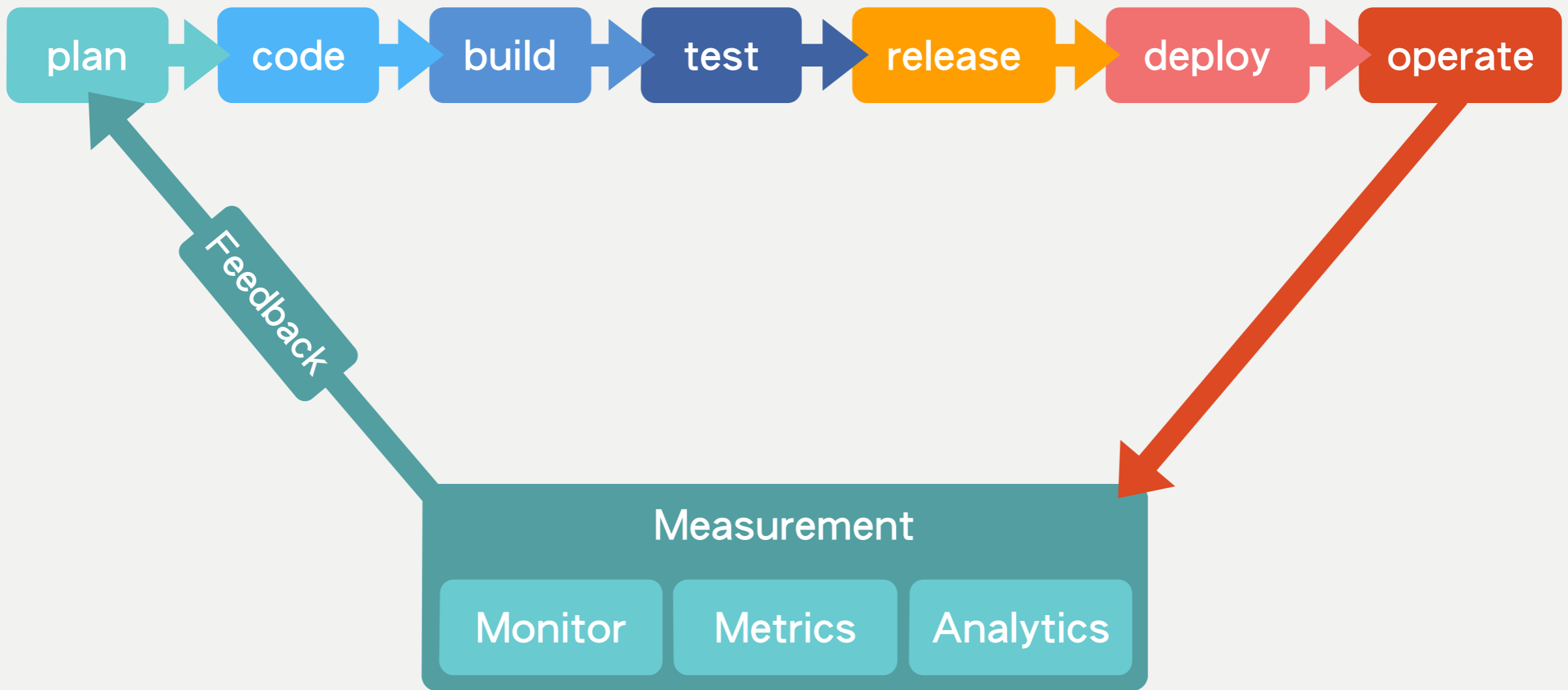


DevOps



DevOps

Continuous Integration



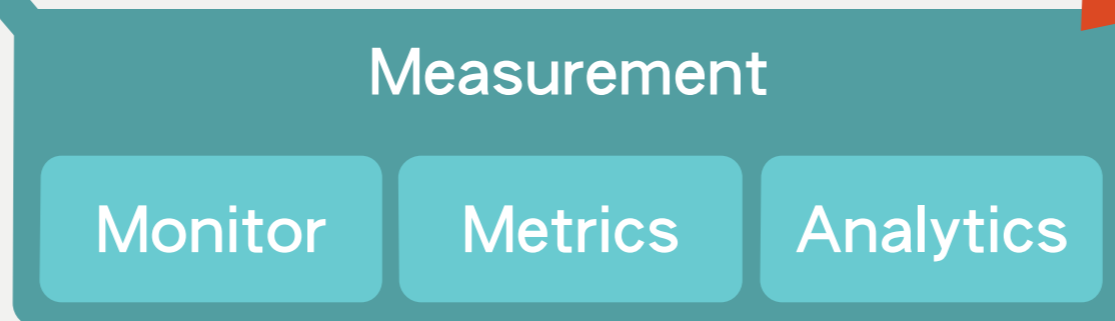
DevOps

Continuous Integration



Continuous Delivery

Feedback



DevOps

Continuous Integration



Continuous Delivery

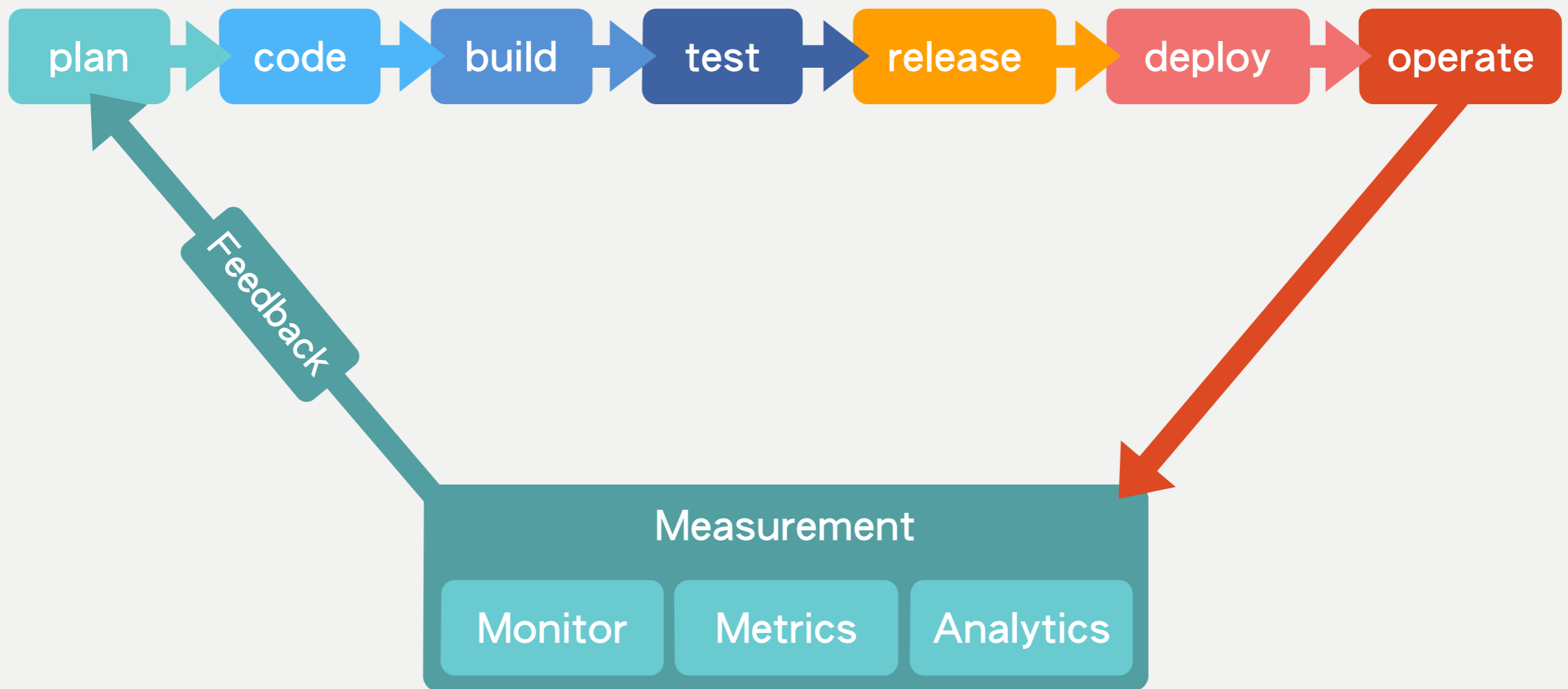
Automation

Monitoring

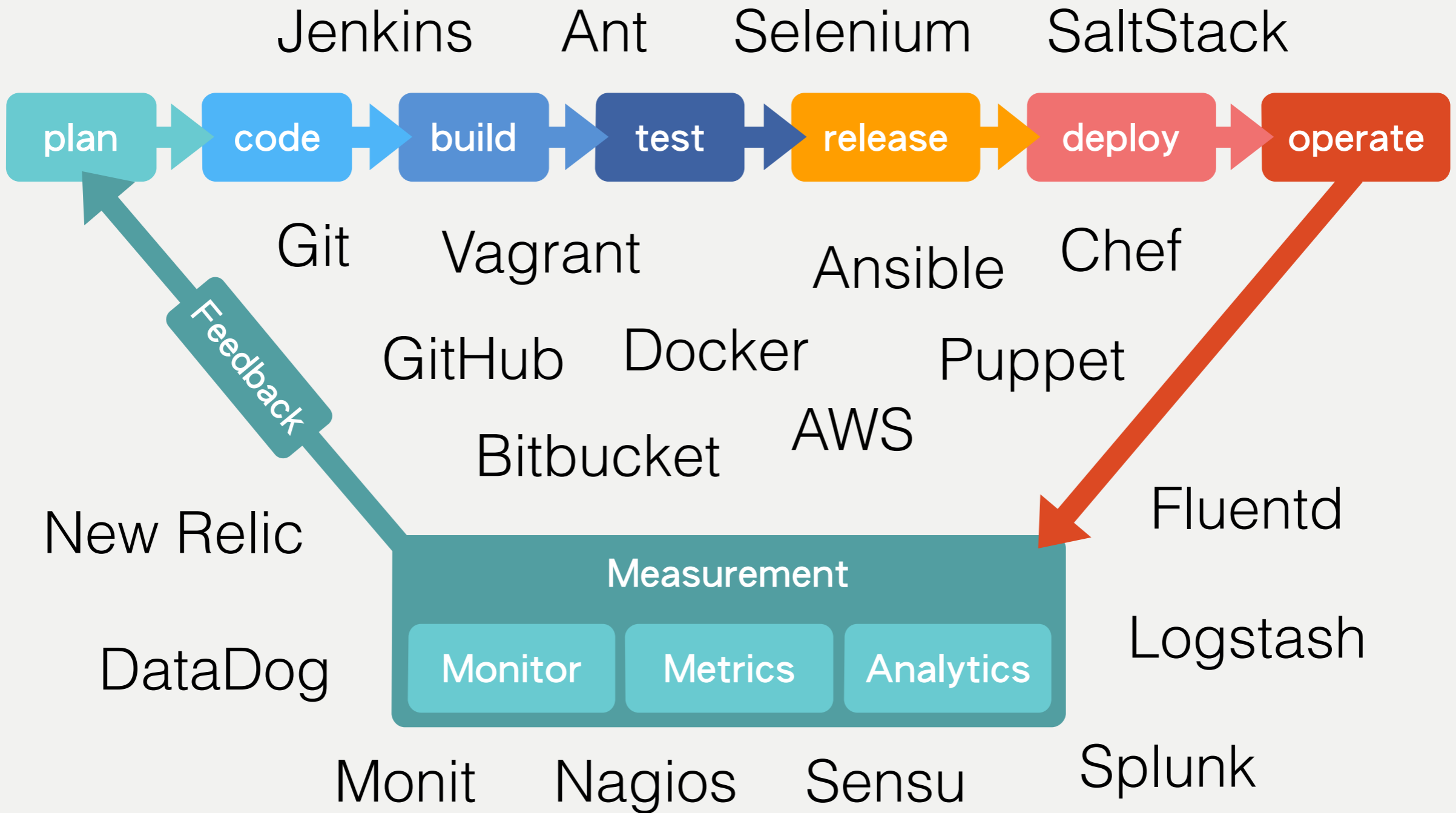
Feedback



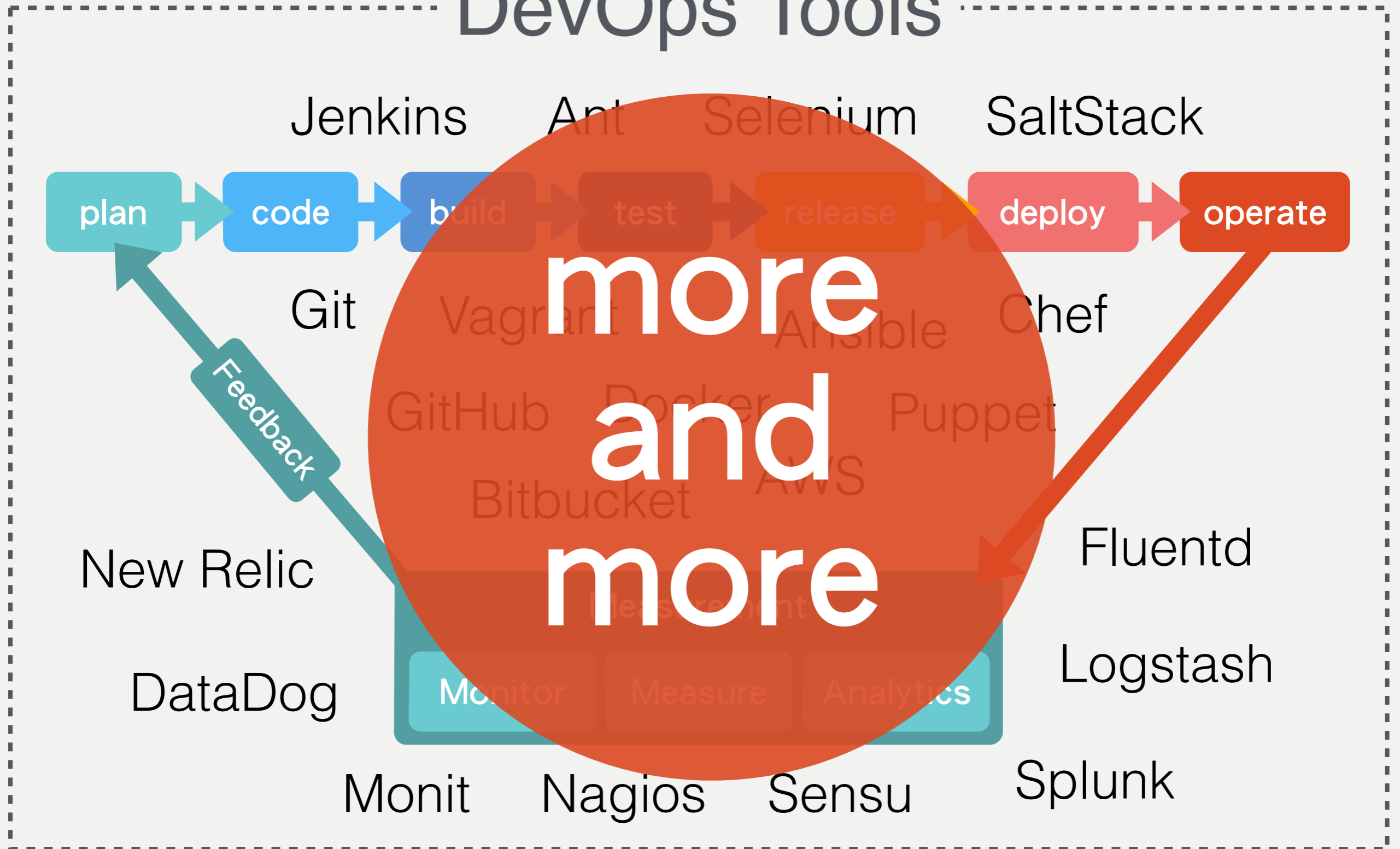
DevOps Tools



DevOps Tools

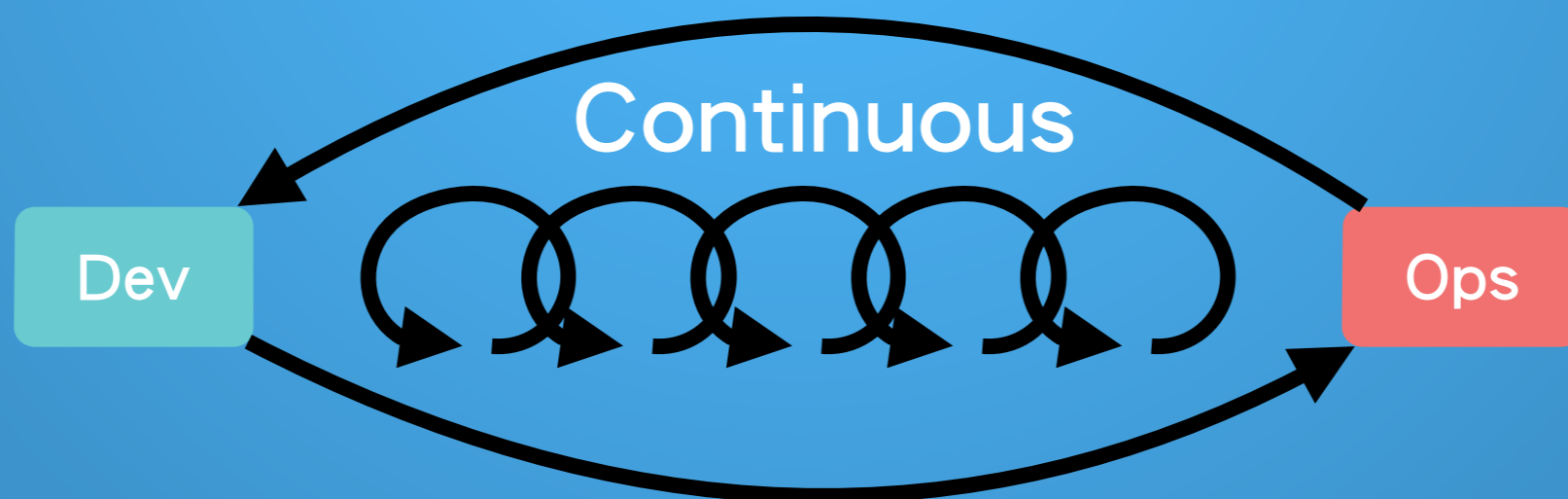


DevOps Tools



「這不只是選擇和使用什麼工具的問題……
更重要的是，如何正確使用實踐。」

- 《Continuous Delivery 中文版》





團隊



團隊

團隊規模



團隊

小

團隊規模

團隊

follow
me~

小

團隊規模

團隊組成

團隊

follow
me~

小

團隊規模

豐

團隊組成

團隊

follow
me~

小

團隊規模

豐

團隊組成

彈性

成本

單純

團隊架構



團隊架構



專案
編組

團隊架構



follow
me~

引路人

專案
編組

團隊架構



專案
編組

小
團隊

團隊架構



專案
編組

小
團隊

新創
團隊

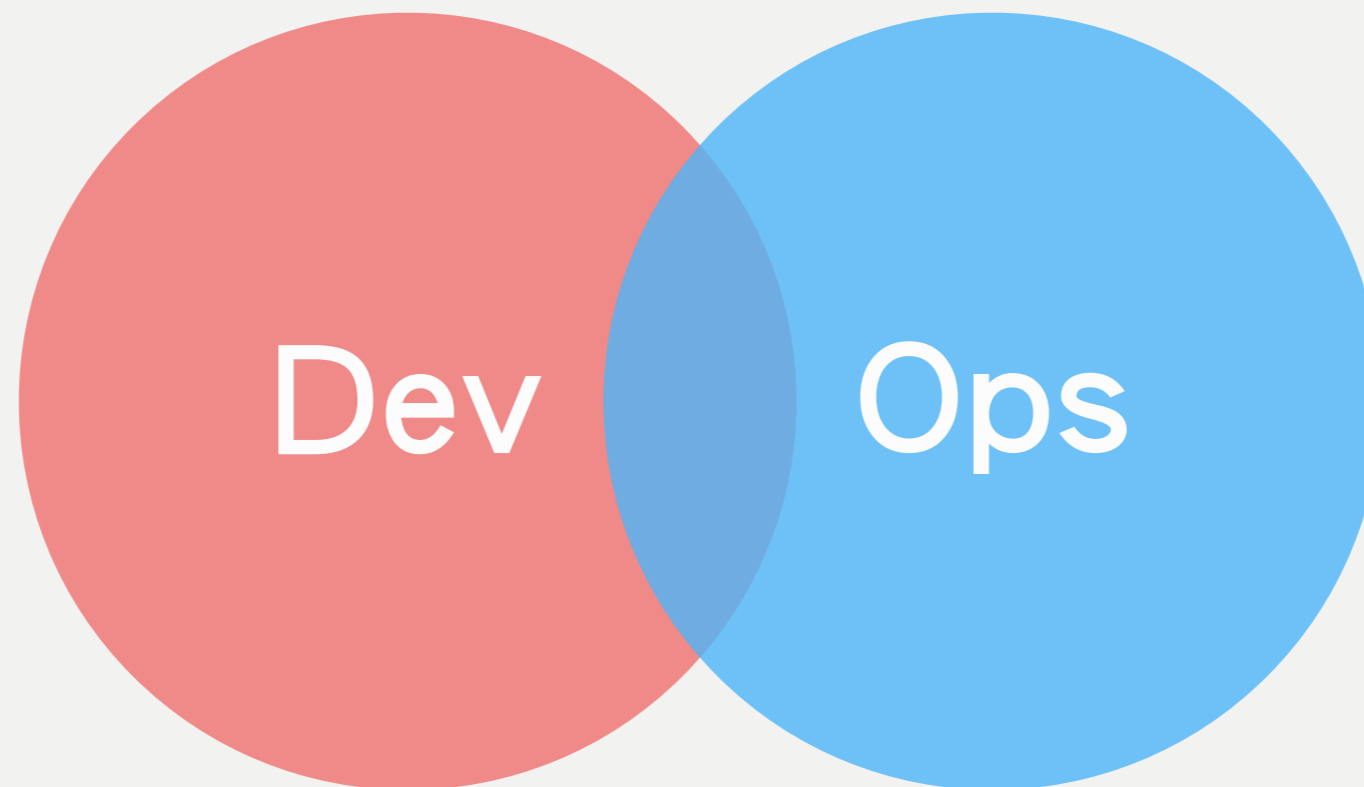
團隊架構



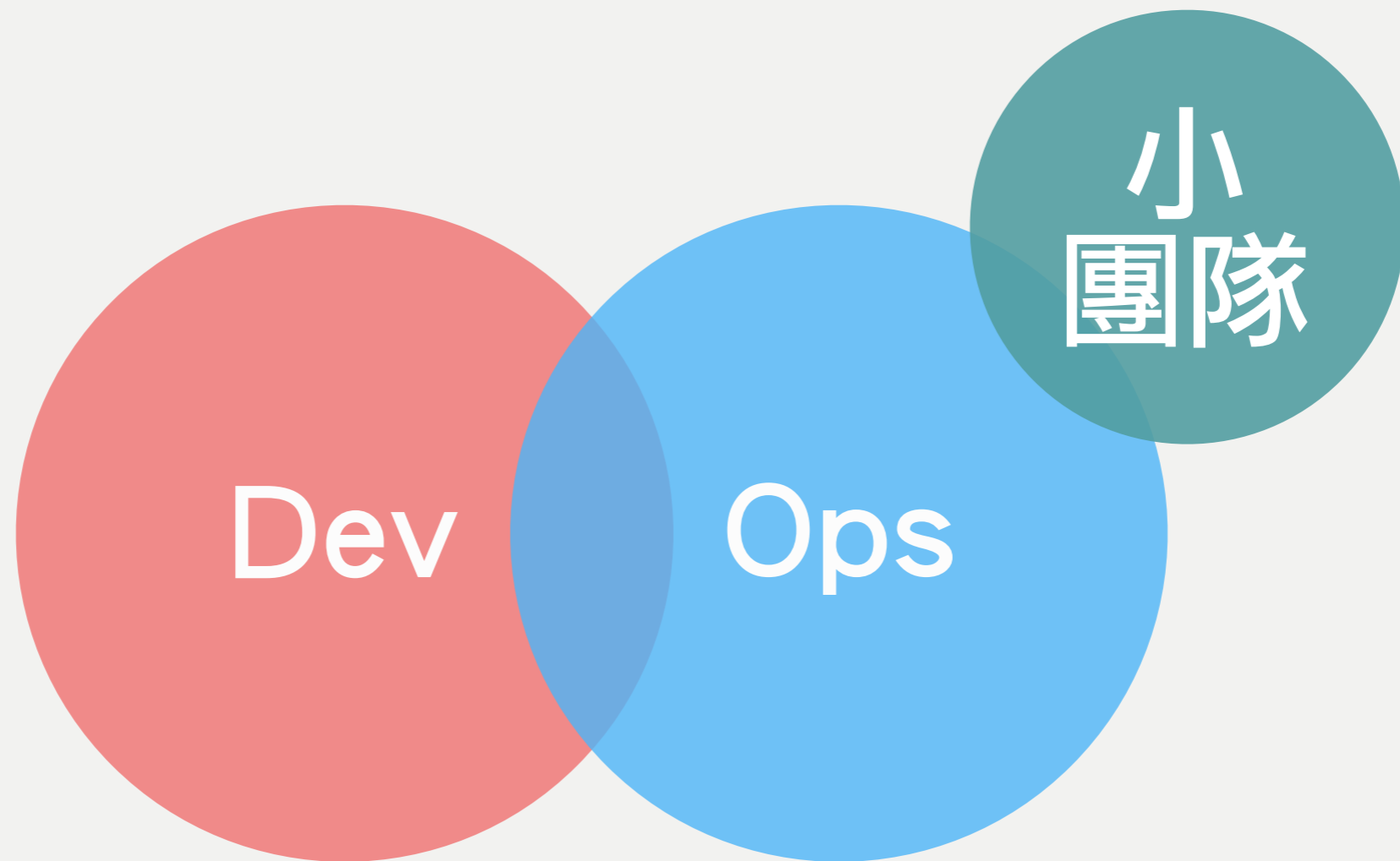
Dev

Ops

團隊架構



團隊架構



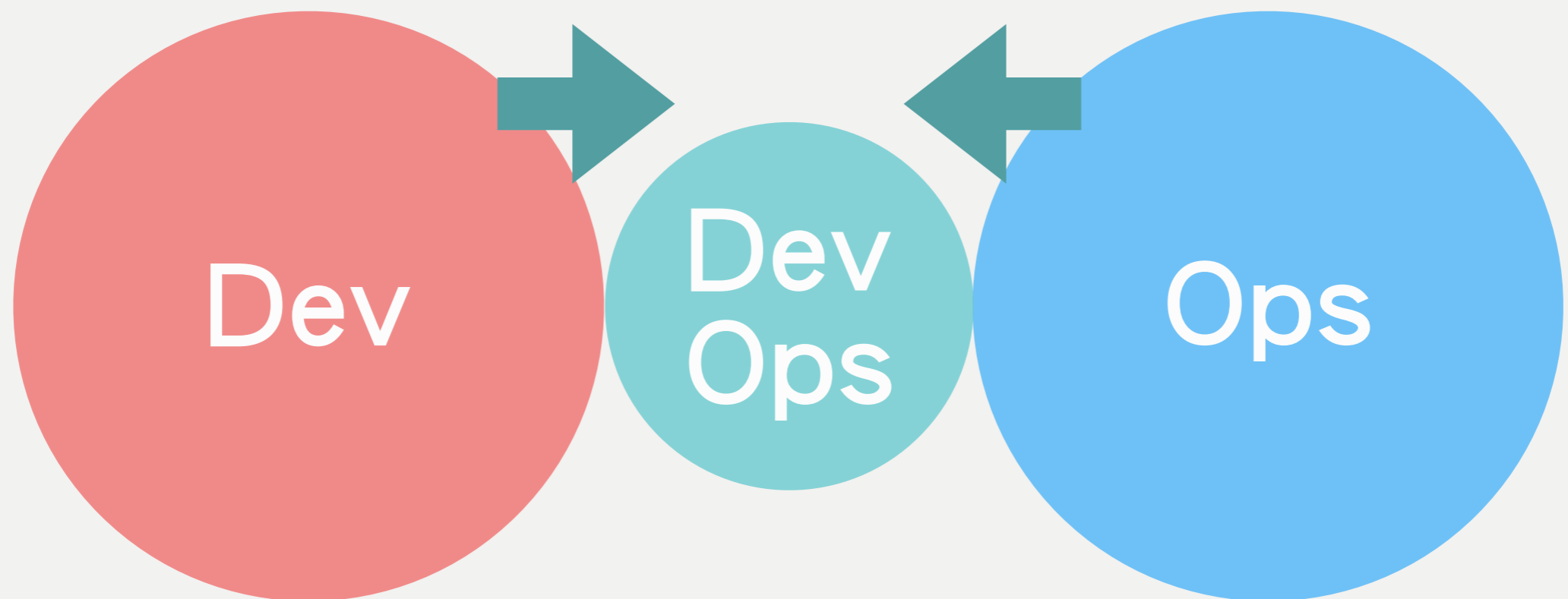
團隊架構



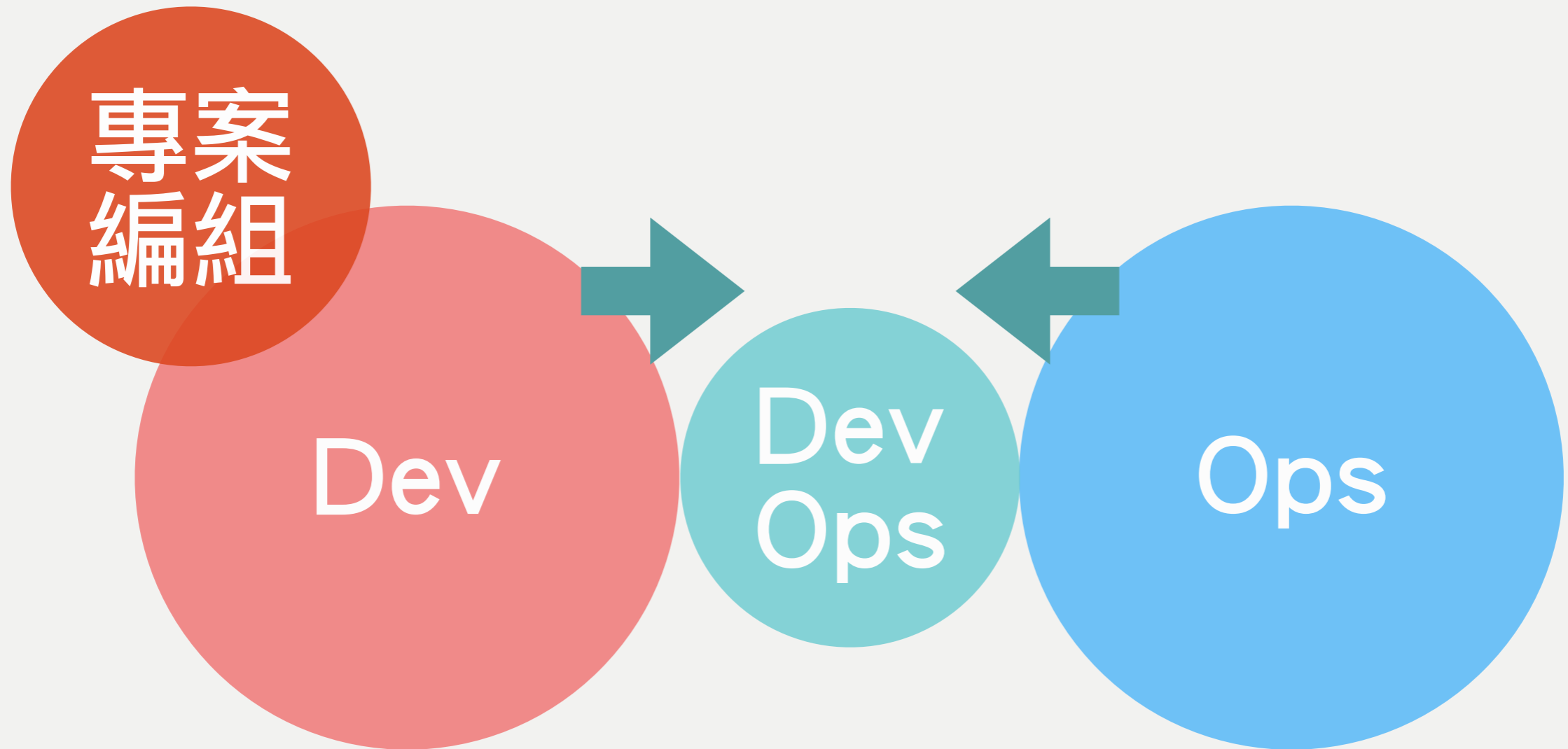
團隊架構



團隊架構



團隊架構



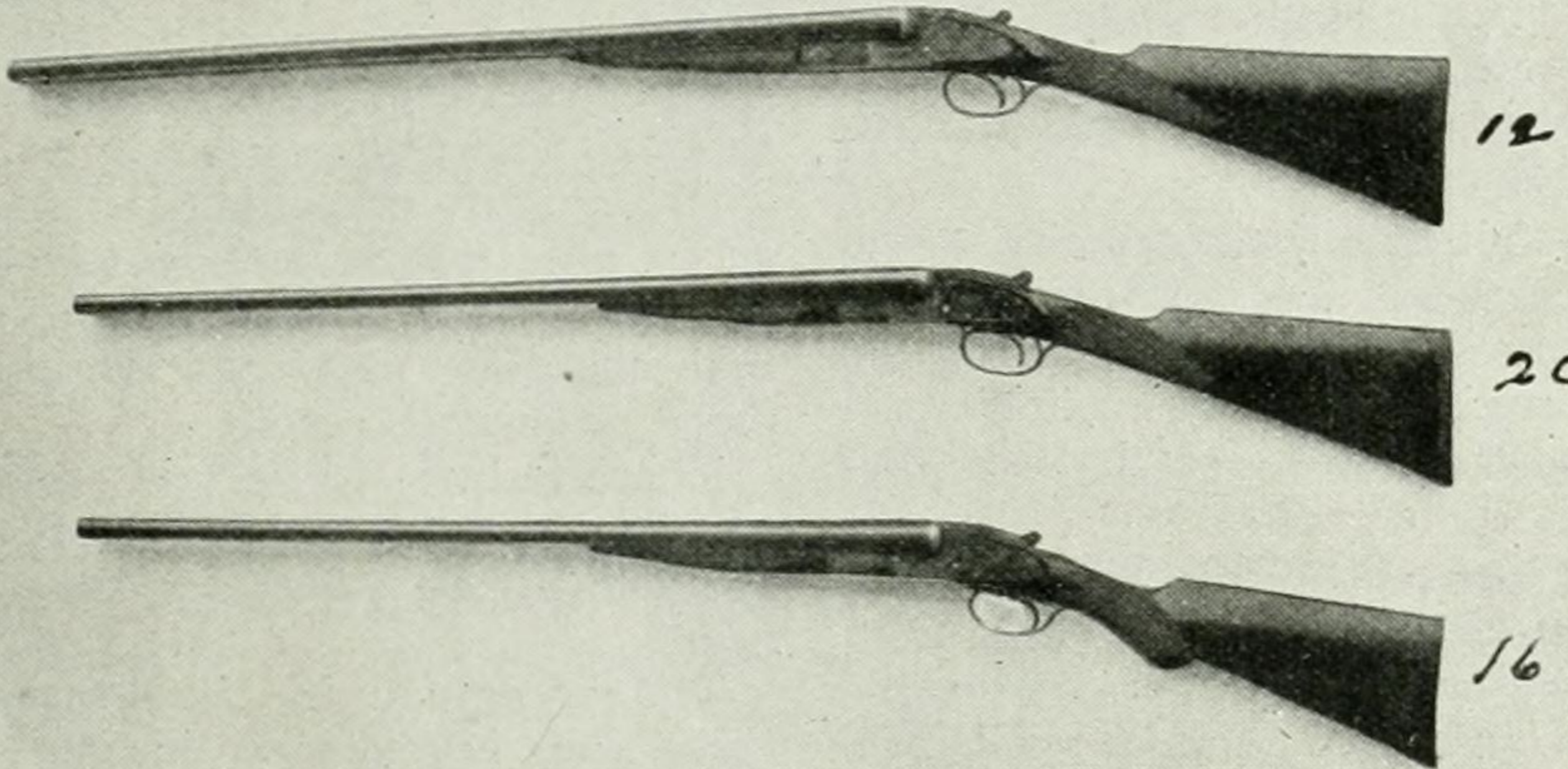
DevOps Topologies

What Team Structure is Right for DevOps to Flourish?

Posted on [October 22, 2013](#) by Matthew Skelton (@matthewpskelton)

The primary goal of any DevOps setup within an organisation is to **improve the delivery of value for customers and the business**, not in itself to reduce costs, increase automation, or drive everything from configuration management; this means that different organisations might need different team structures in order for effective Dev and Ops collaboration to take place.

DevOps 工具



Chef CTO likens devops to kung fu: It has multiple variants, each with their own characteristics

來源: <http://www.infoworld.com/article/2905307/devops/what-is-devops-depends-on-whom-you-ask.html>



來源: https://youtu.be/_DEToXsgrPc

啊...噠噠噠噠！

BE

A

DEVOPS

KUNG FU

MASTER

啊...噠噠噠噠！

BE

A

PS

少林武功好~ 誒~

KUNG FU

MASTER

啊...噠噠噠噠！

BE

A

PS

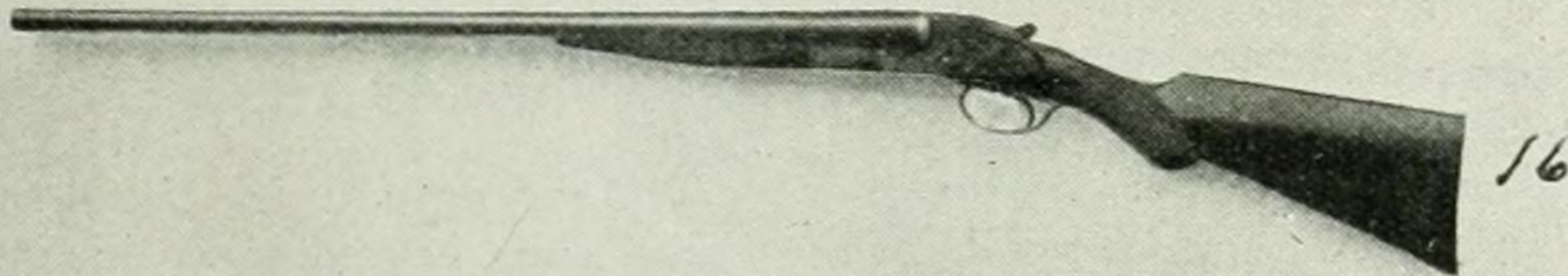
哼哼哈兮！快使用雙截棍！

少林武功好

KUNG FU

MASTER

~~DevOps~~ 工具



DevOps 工具

工具
選擇策略

工具選擇策略

符合需求



工具選擇策略

符合需求

學習成本

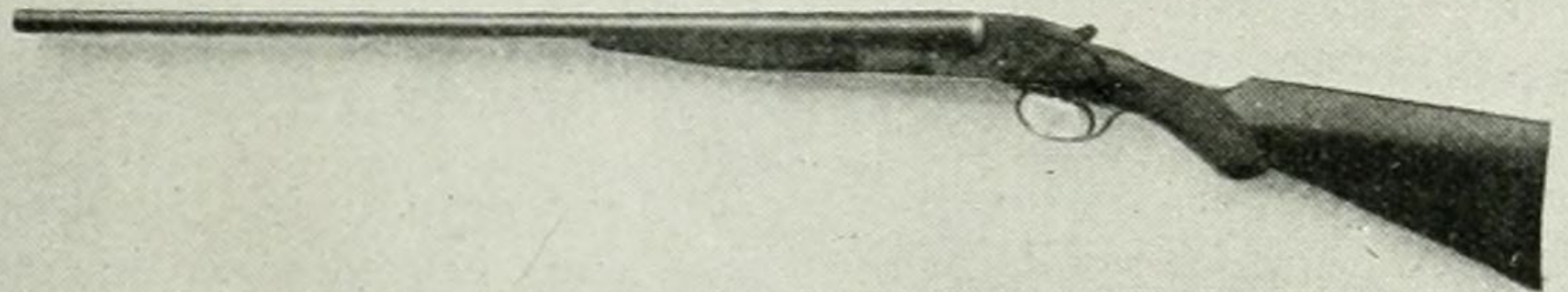
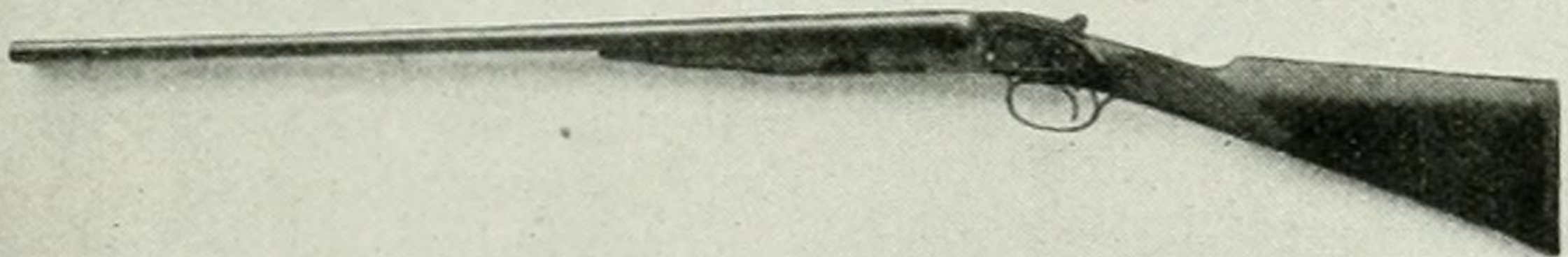


工具選擇策略

符合需求

學習成本

設計邏輯



工具選擇策略

符合需求

學習成本

設計邏輯

價格

20

16

工具選擇策略

符合需求

學習成本

設計邏輯

價格

售後服務

工具選擇策略

符合需求

學習成本

設計邏輯

價格

售後服務

商業支援

工具選擇策略

符合需求

學習成本

設計邏輯

價格

售後服務

商業支援

教學資源

工具選擇策略

符合需求

學習成本

設計邏輯

價格

售後服務

商業支援

教學資源

社群

工具選擇策略

符合需求

學習成本

設計邏輯

價格

售後服務

商業支援

教學資源

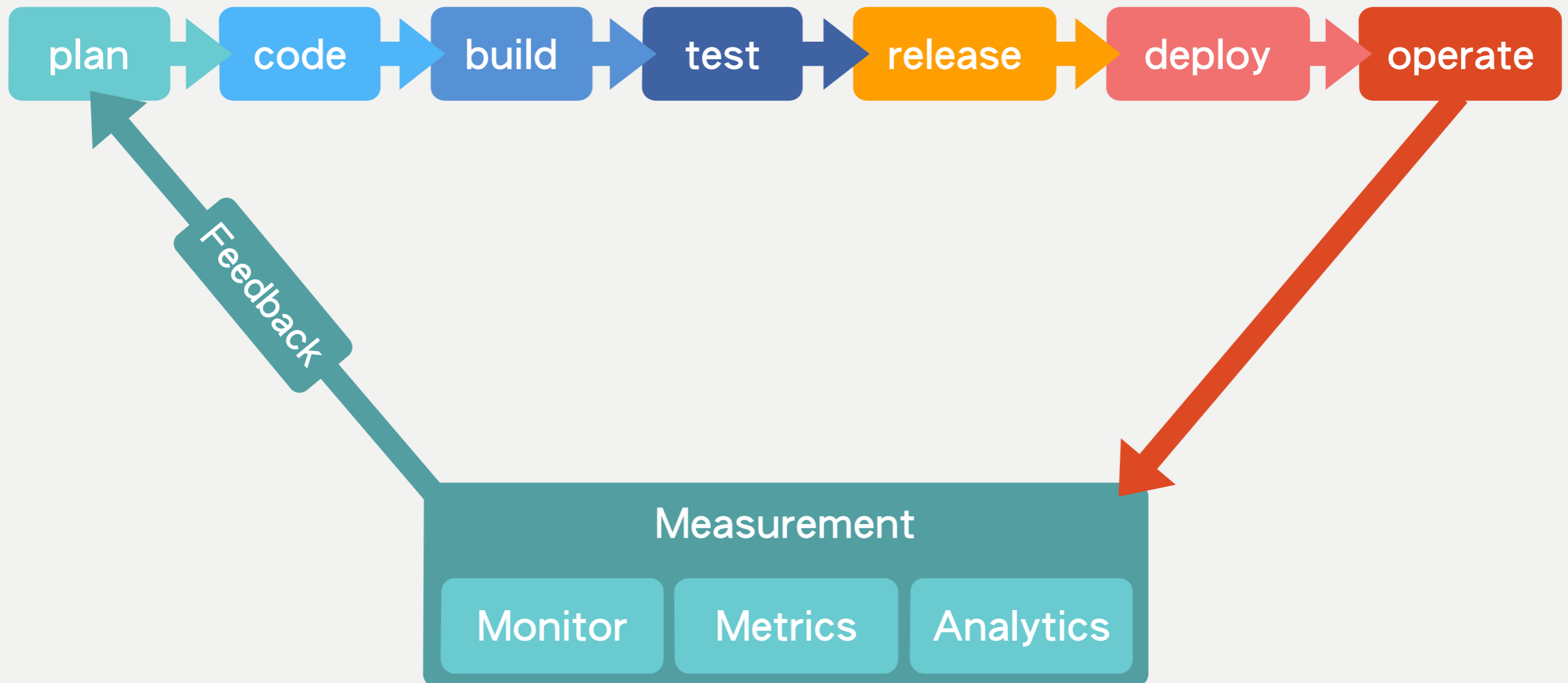
社群

生態系

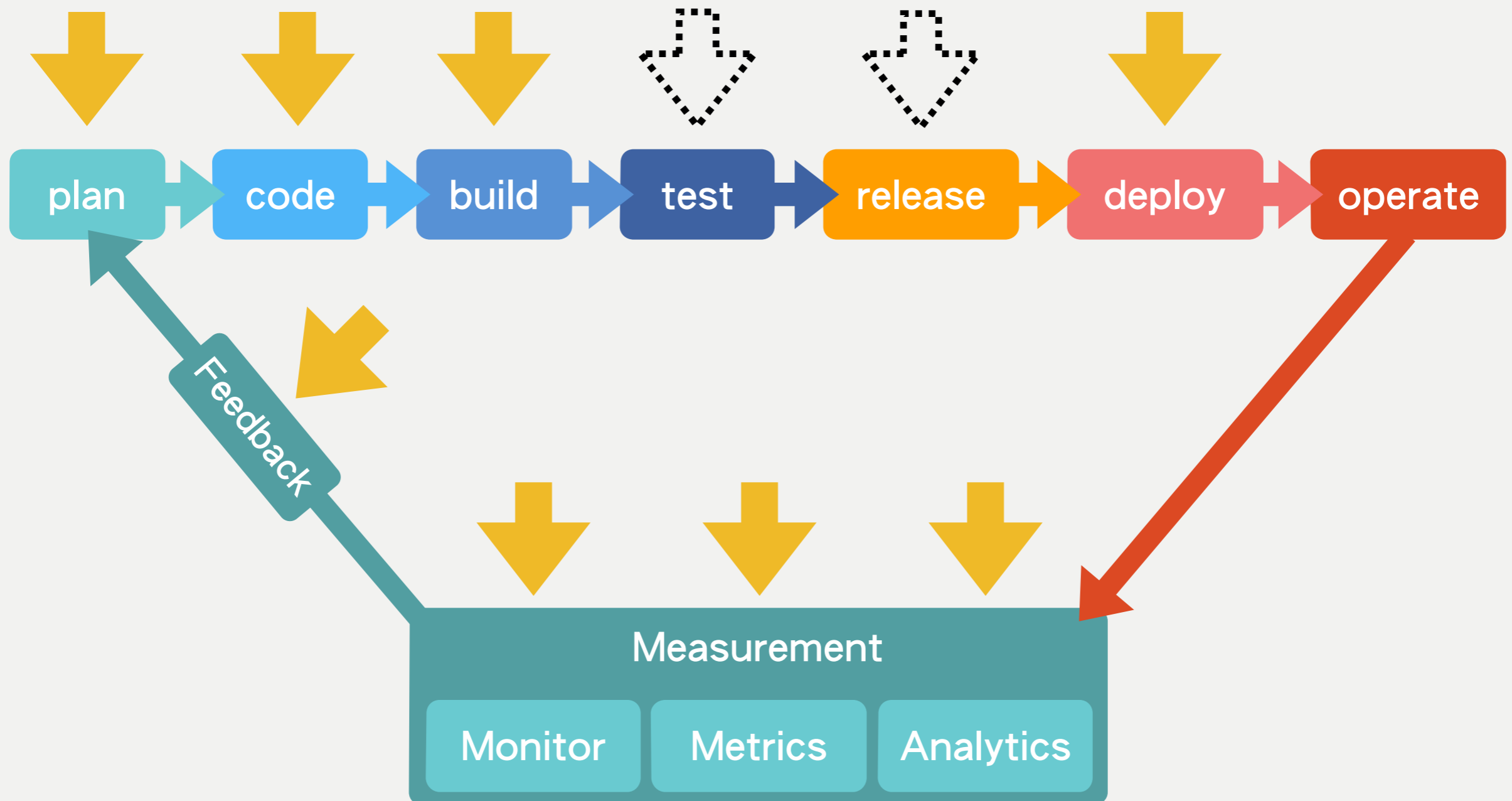
DevOps Practices



DevOps Practices



DevOps Practices



DevOps Practices

┌────────── Before Development Pipeline ─────────┐

plan

除了討論 Functional requirements

還要討論 Non-Functional requirements

DevOps Practices

Before Development Pipeline

plan

Non-Functional requirements

Security

Backups

High Availability

Configuration
management

Upgradeability

Monitoring

Logging

Metrics

DevOps Practices



DevOps Practices



Version Control



 Bitbucket

DevOps Practices



Version Control



Provisioning



DevOps Practices



Version Control



Provisioning

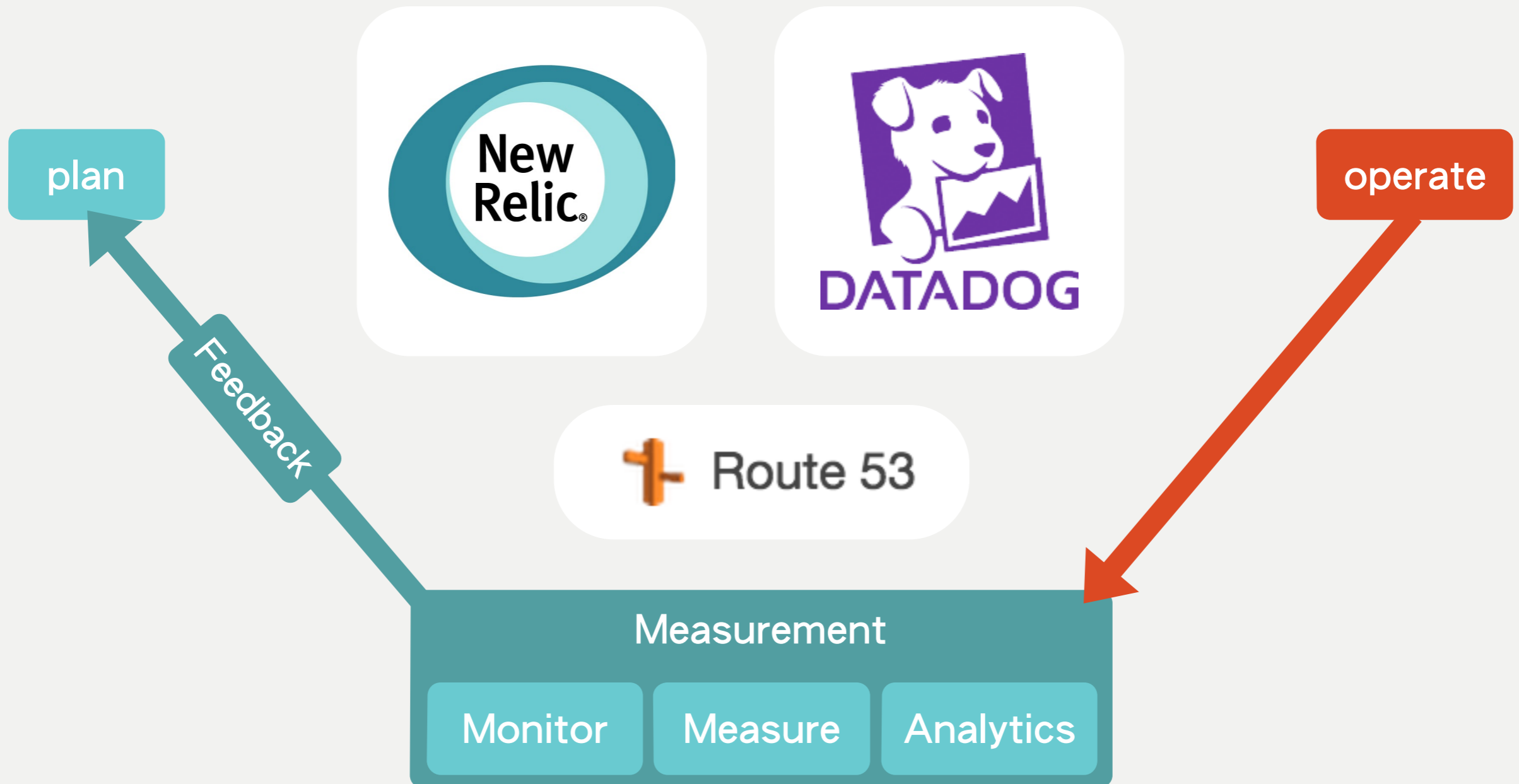


Configuration Management

Deployment

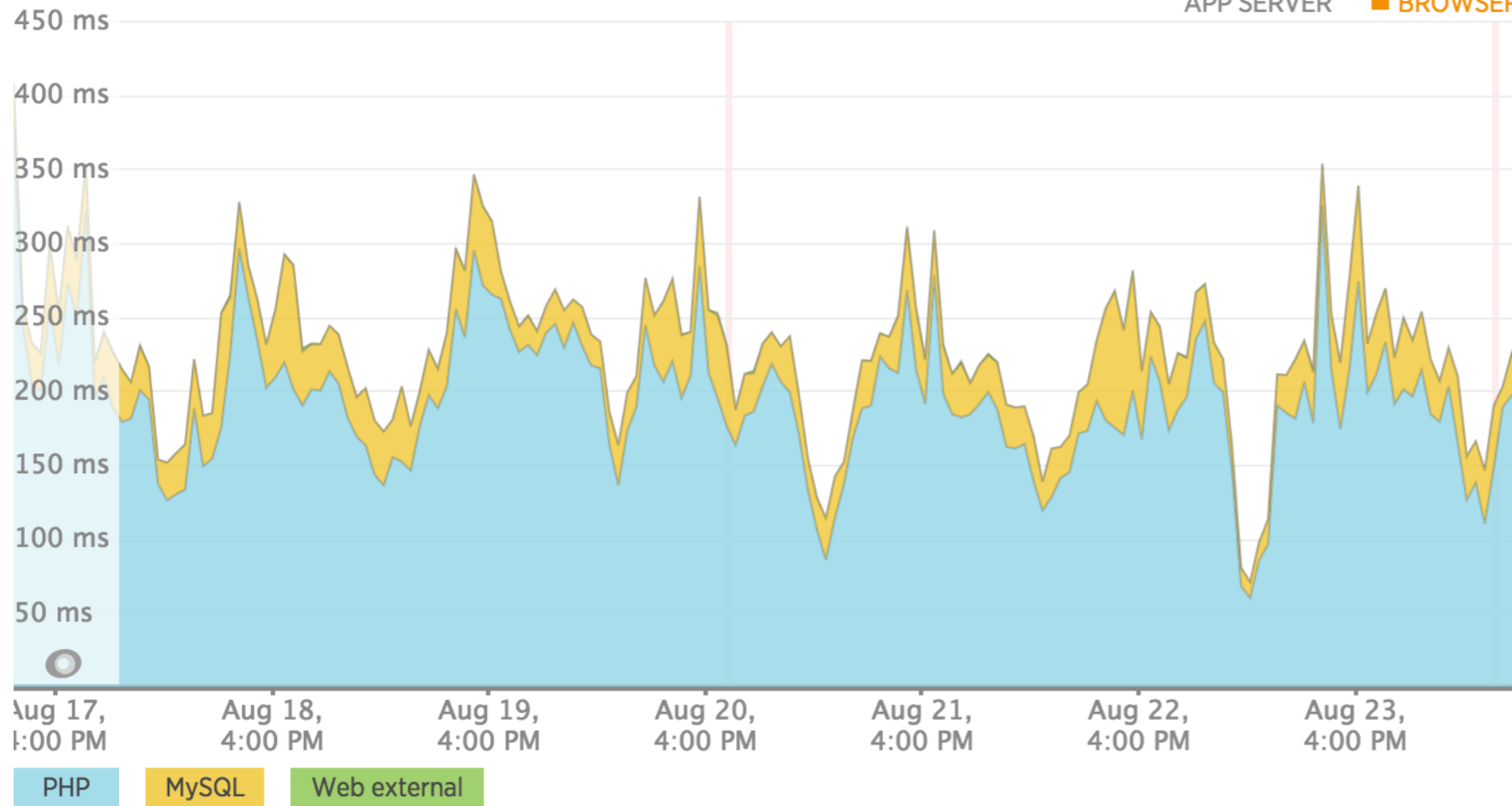


DevOps Practices

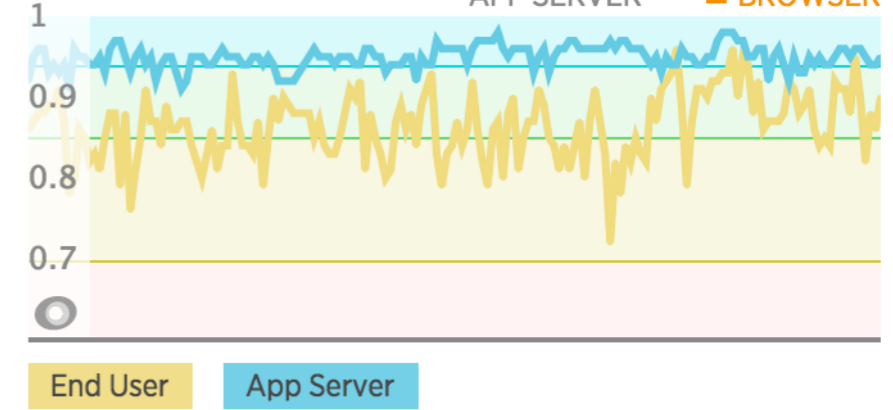


Web transactions response time

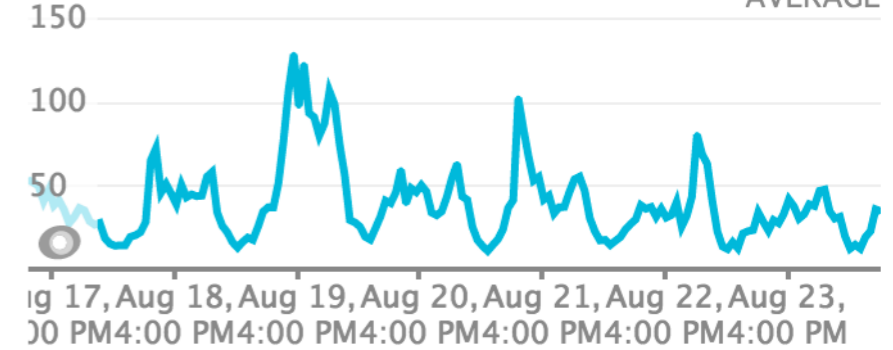
245 ms APP SERVER
5.66 s BROWSER



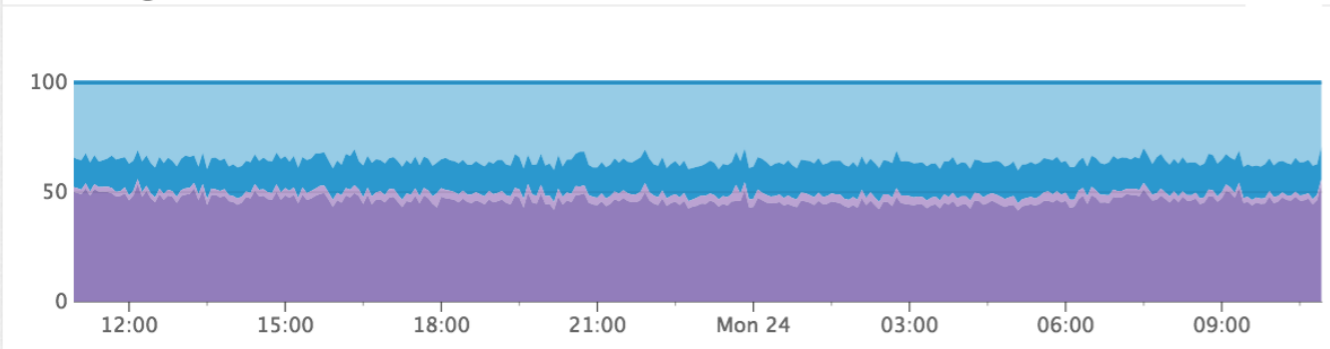
Apdex score ? 0.95 [0.5] 0.87 [7.0]
APP SERVER BROWSER



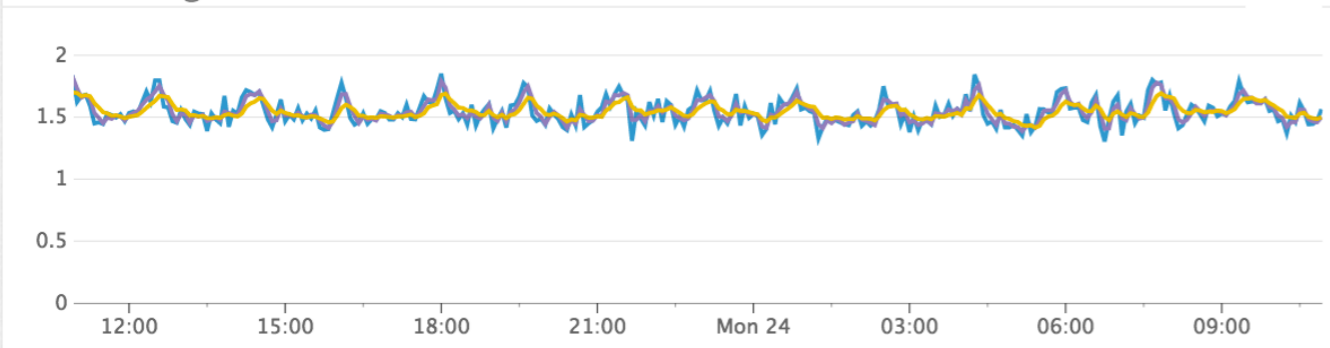
Throughput 39.2 rpm
AVERAGE



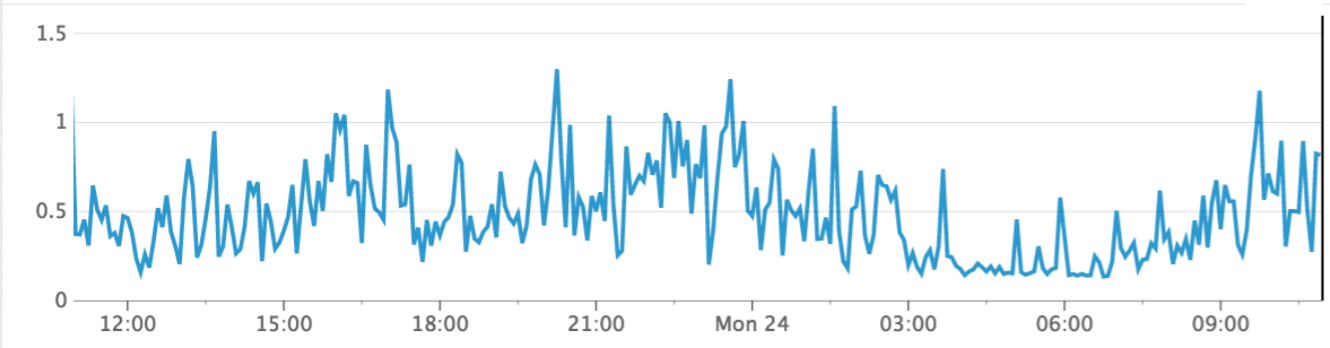
CPU usage (%)



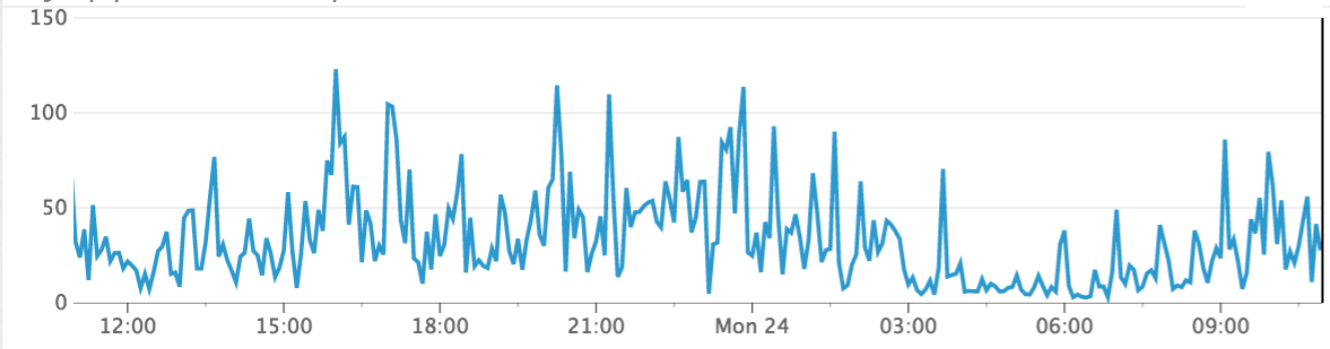
Load Averages 1-5-15



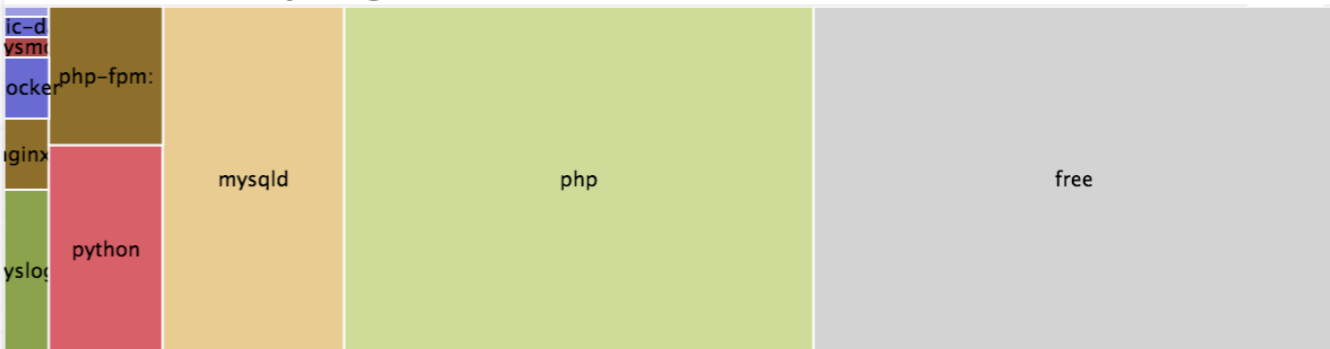
mysql.net.connections



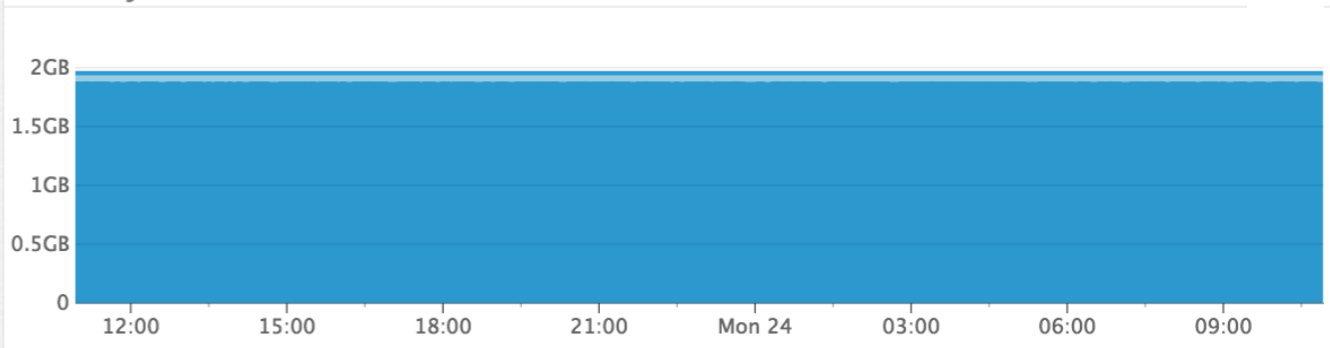
mysql.performance.queries



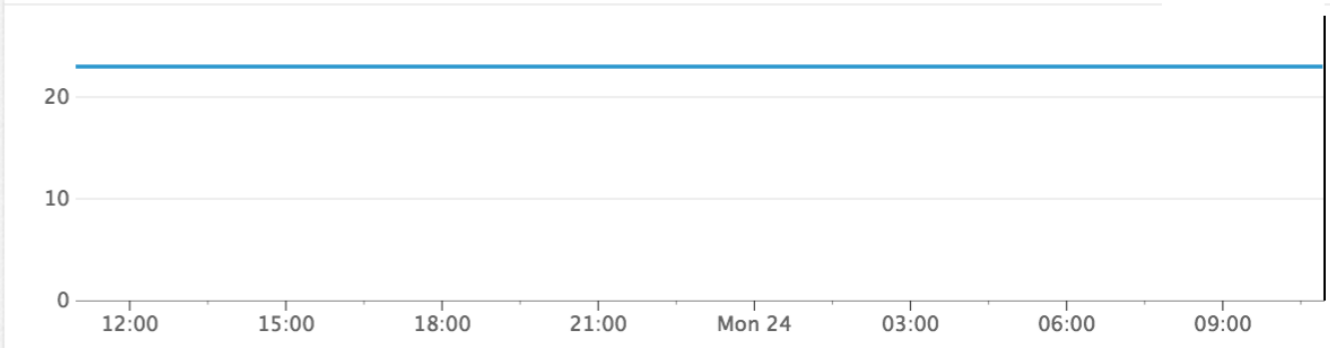
Processes memory usage



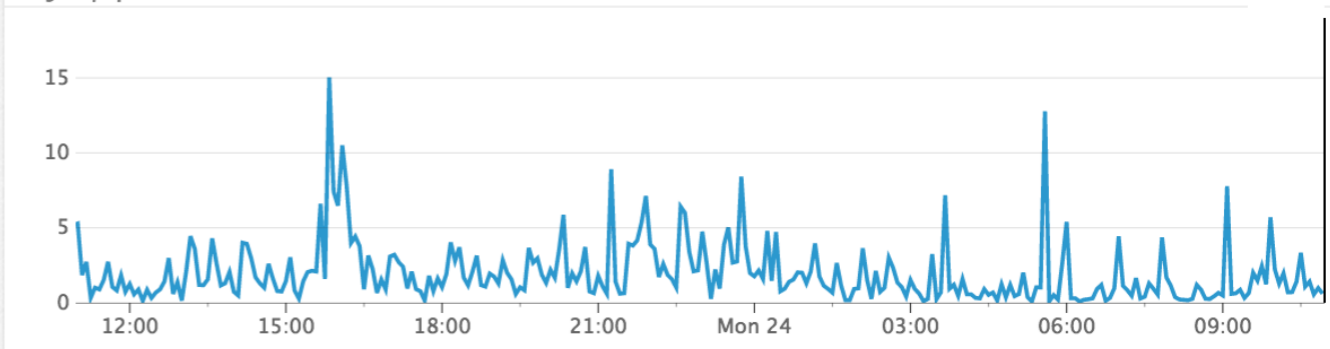
Memory breakdown



mysql.net.max_connections



mysql.performance.user_time



Before, After

Before, After

又短又快

create VM

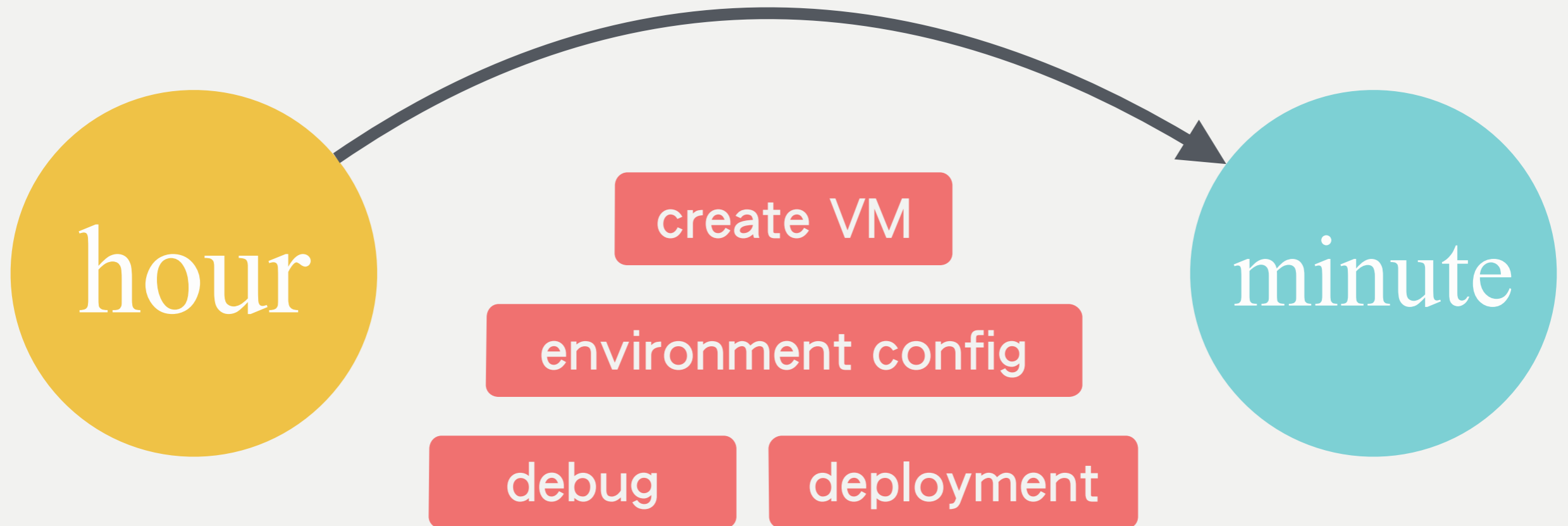
environment config

debug

deployment

Before, After

又短又快



Before, After

安全有效率，品質有保障

Source Control

Collaboration

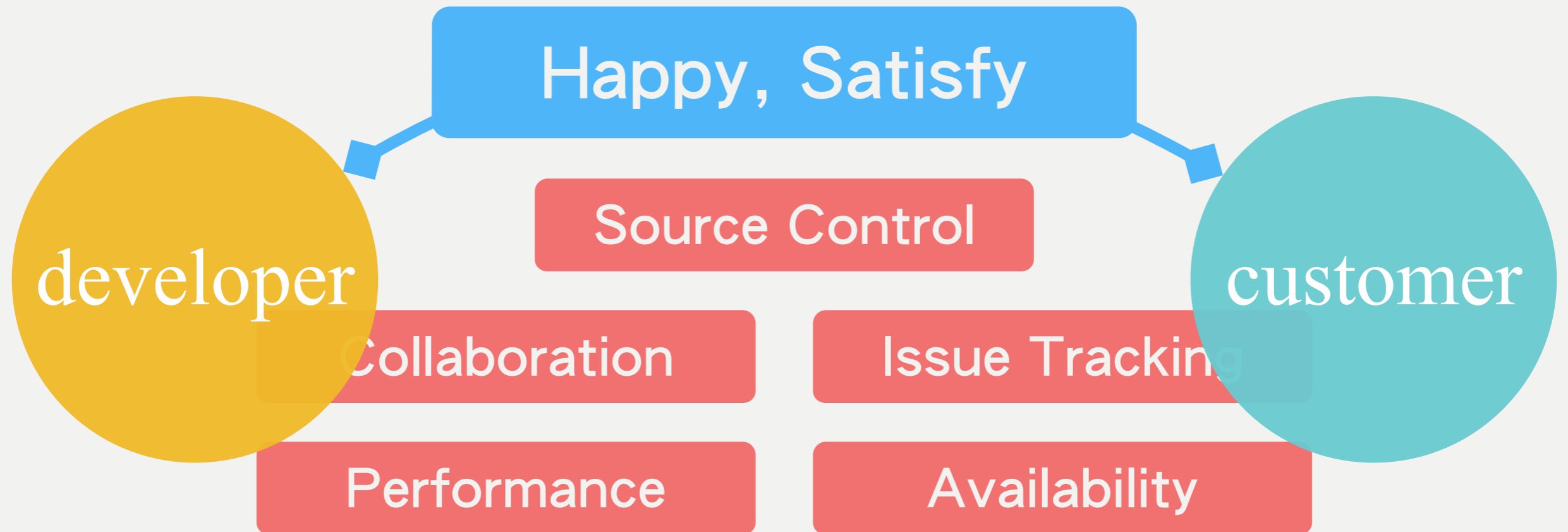
Issue Tracking

Performance

Availability

Before, After

安全有效率，品質有保障



Summary

Survival Guide



LEAN

Continuous
Integration

Agile

Continuous
Delivery

Survival Guide

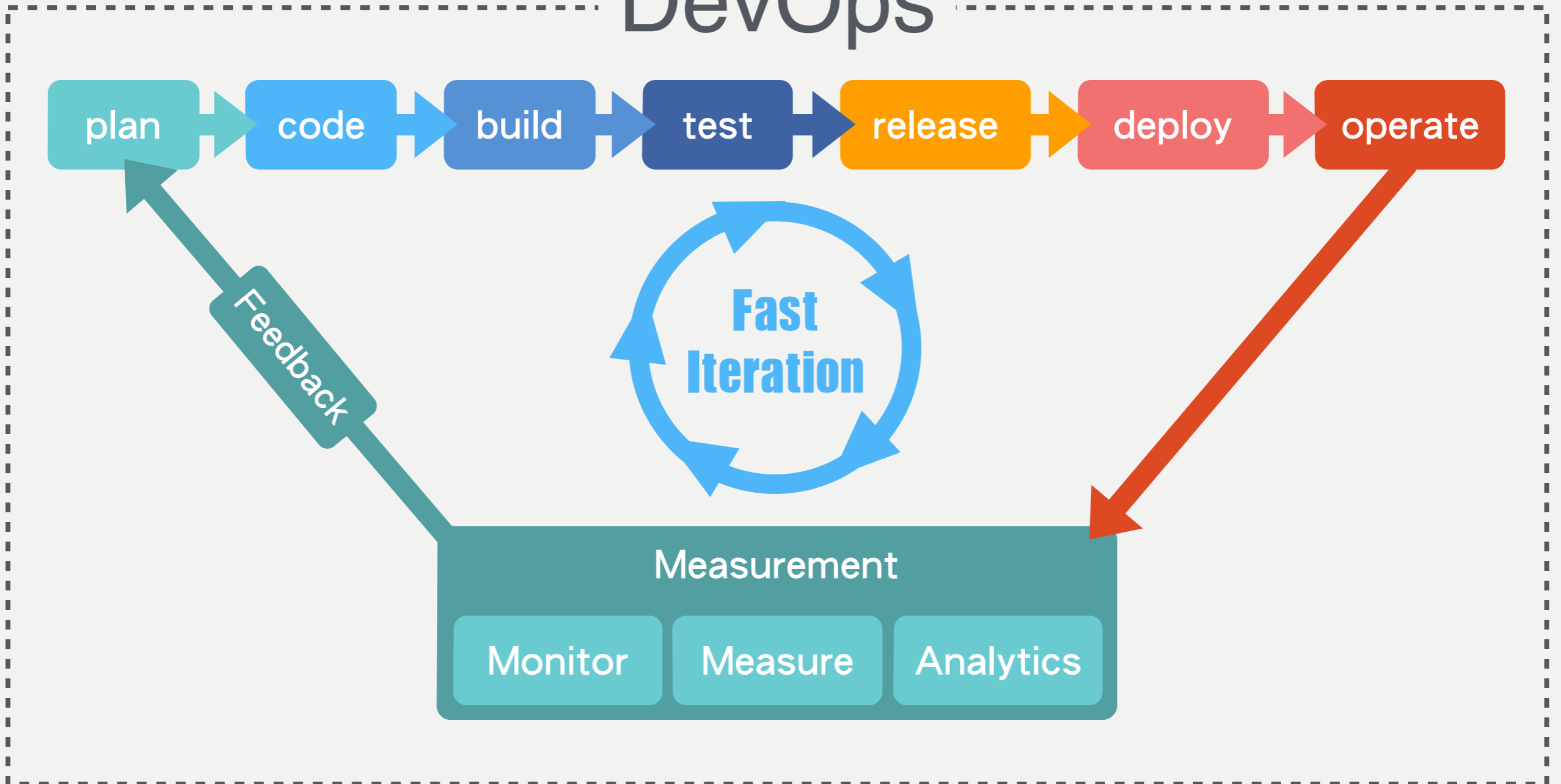
LEAN



Continuous
Improvement

流程

DevOps



最佳實踐

團隊規模

流程

產品\架構

最佳
實踐

工具選擇策略

符合需求

學習成本

設計邏輯

價格

售後服務

商業支援

教學資源

社群

生態系



Dead



Alive



**Thank
You**