



IBM 2019
Cloud
& **AI** 高峰會

服務導向的 現代化應用與 IT 架構

—

SoftLeader
Gary Lee

Agenda

1. 數位轉型
 2. 微服務架構
 3. Kubernetes
 4. DevOps
- Q&A

數位轉型

Bank 1.0

Bank 2.0

Bank 3.0

Bank 4.0

400 years

40 years

5 years

Bank1.0

Bank2.0

Bank3.0

Bank4.0



開分行



ATM



行動/網銀

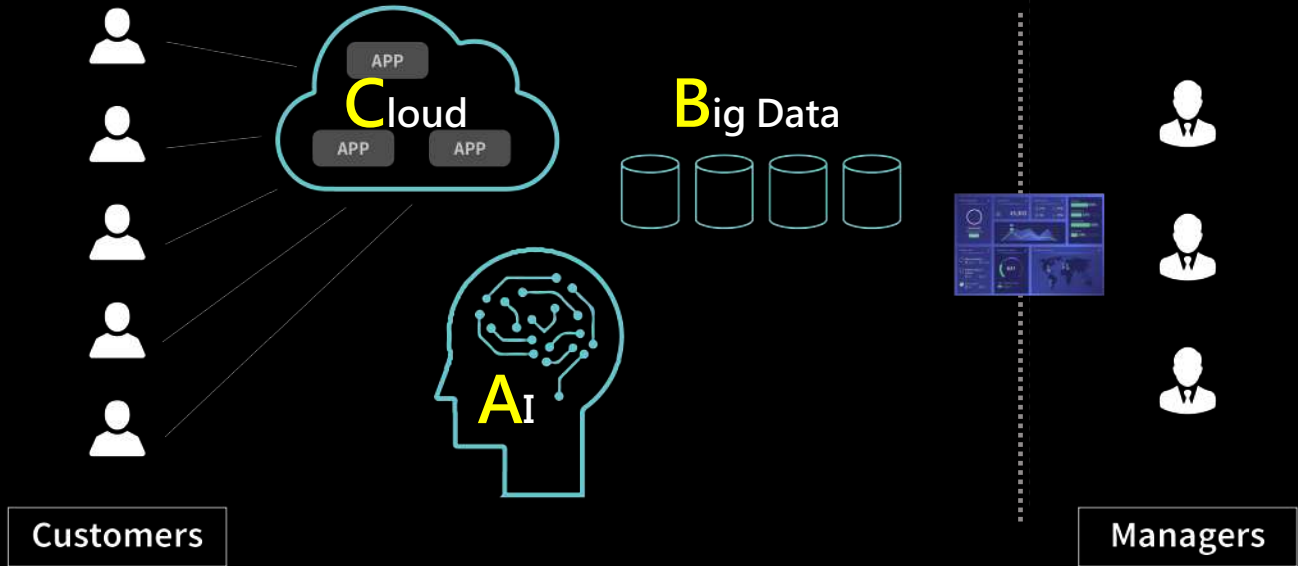
提供銀行服務



回饋數位足跡

Banking Not Banks
領有銀行執照的科技公司

資料驅動



目前遇到的問題

維護較
為困難

系統
效能瓶頸

資訊安全
不足

市場反應
較慢



人才招
募不易

系統設計目標



API
Standardize



Scaling



Zero
Downtime

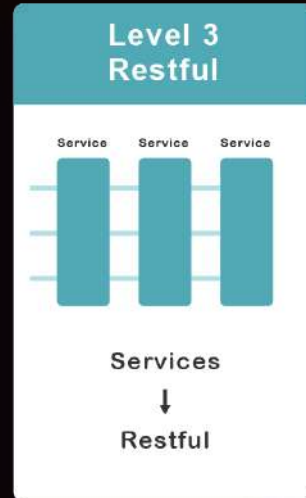
微服務架構



大量重複的程式碼

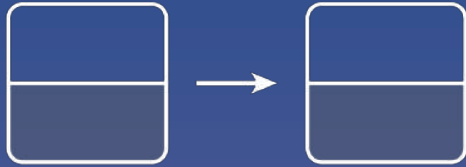


無法跨語言使用



API 😊

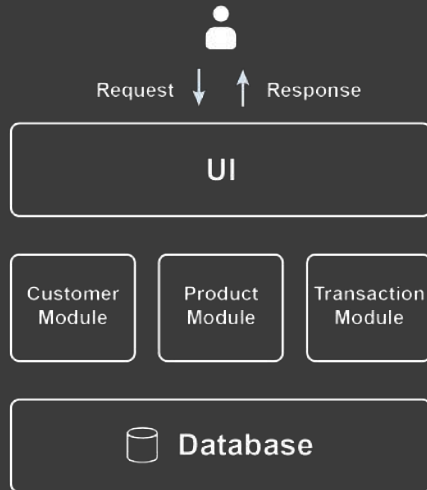
Project A → Project B



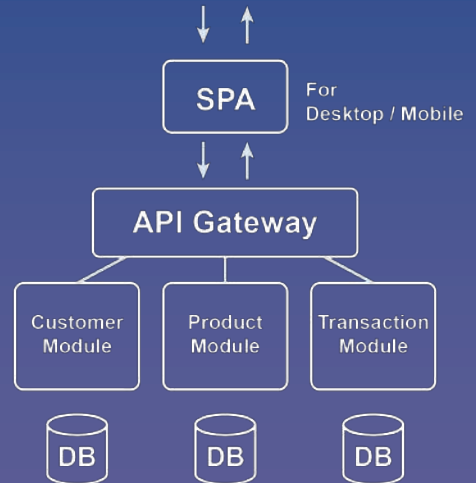
- COPY (Branch)
- Modify
- Re-package
- Deploy
- Test
- Production

- 產品化不足
- 無法進行單一模組調整
- 測試佈署時間久
- 問題追蹤不易
- 無法跨語言整合

Monolithic

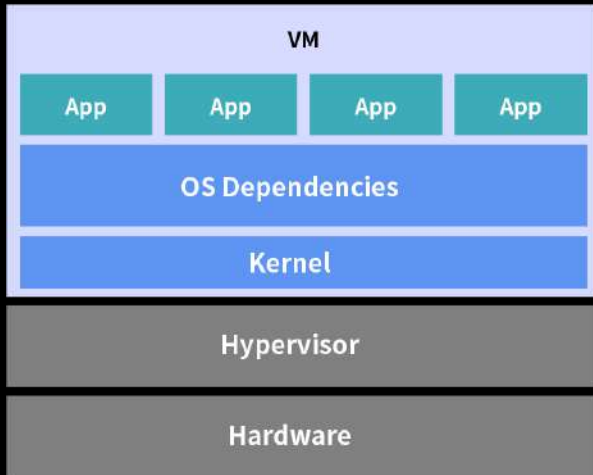


MicroService

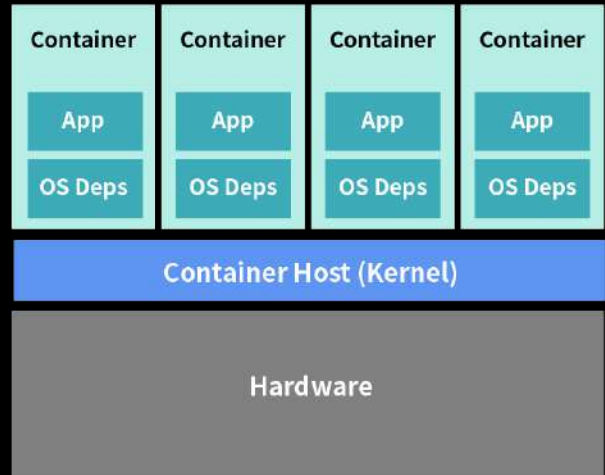


Kubernetes

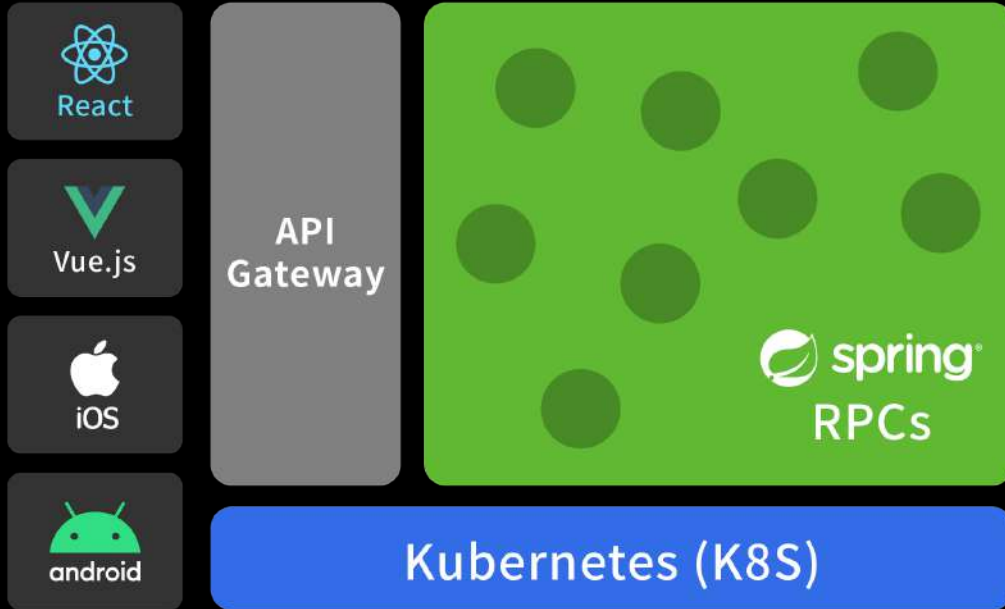
Virtual Machines



Containers



我們的架構



當初的選擇...

Red Hat



VMWare



IBM

Google



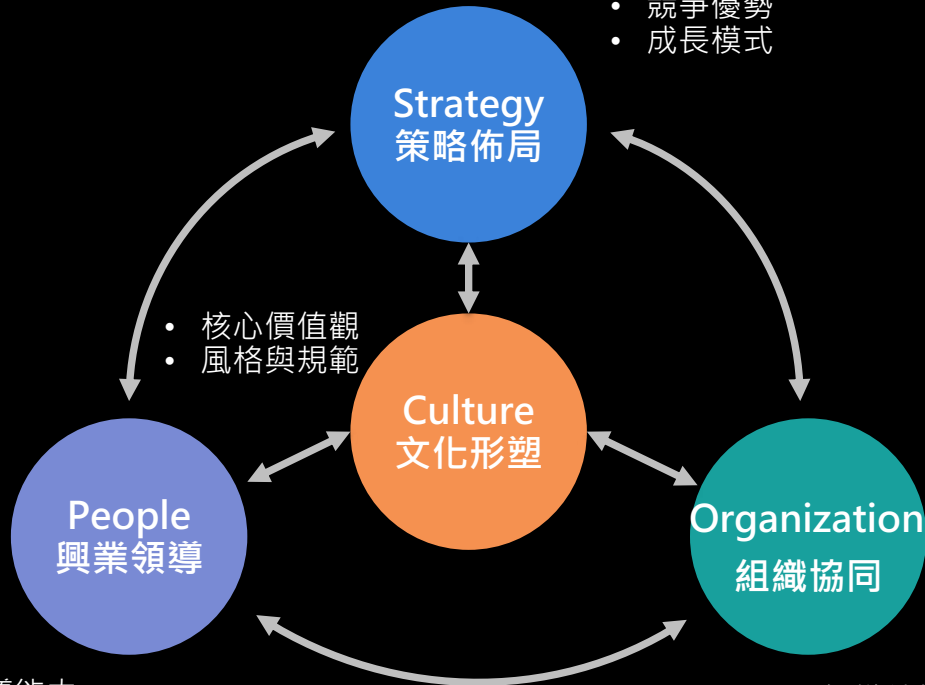
IBM Cloud Private



Kubernetes Native

DevOps

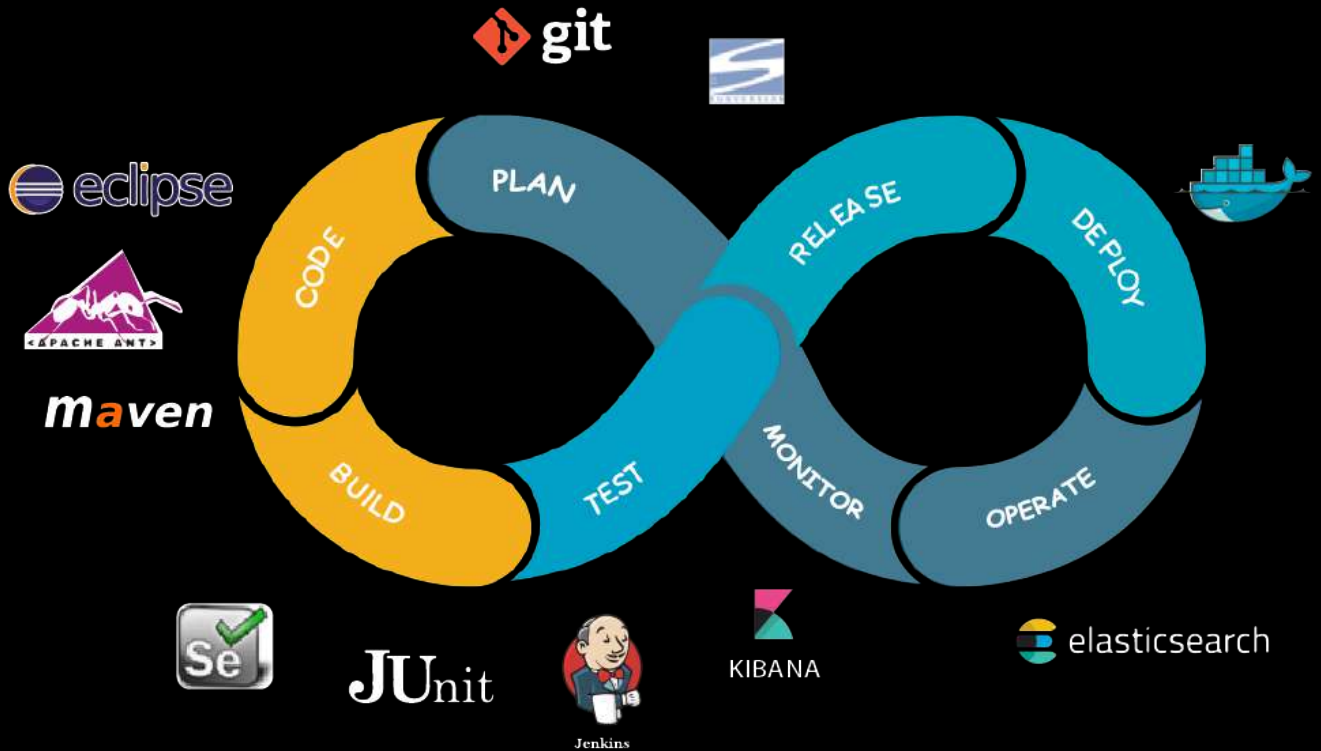
- 事業佈局
- 競爭優勢
- 成長模式

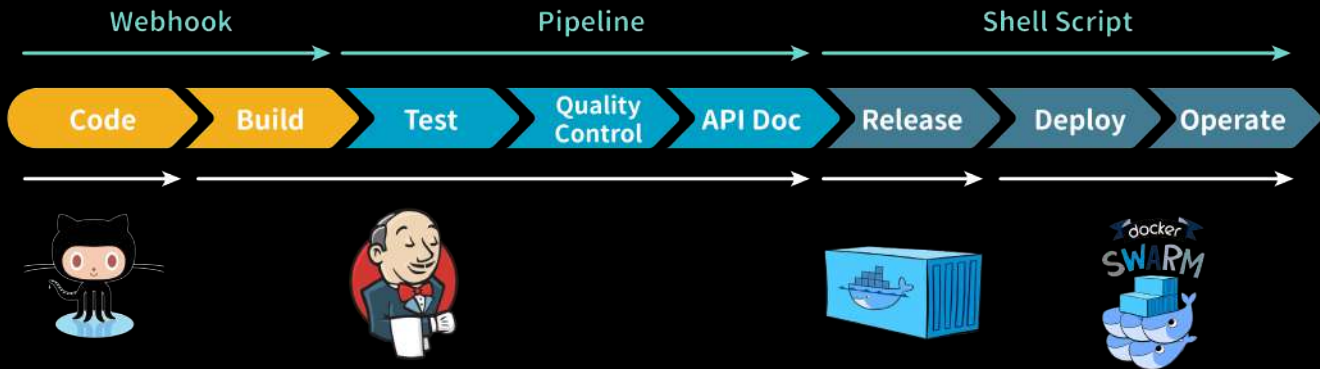


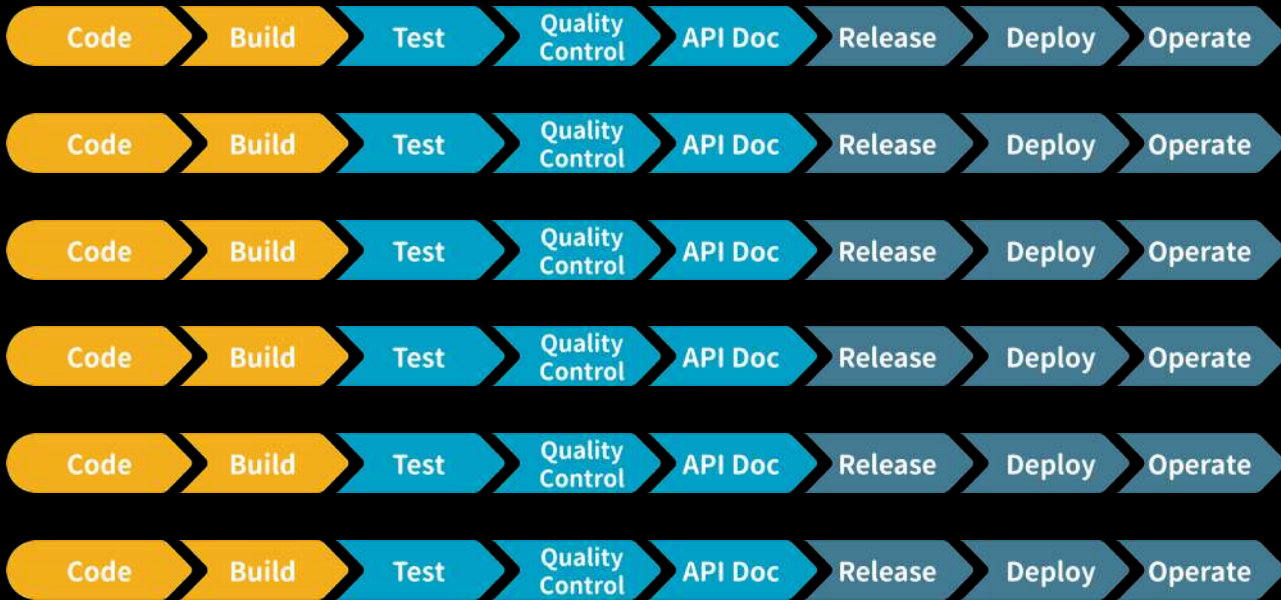
- 核心價值觀
- 風格與規範

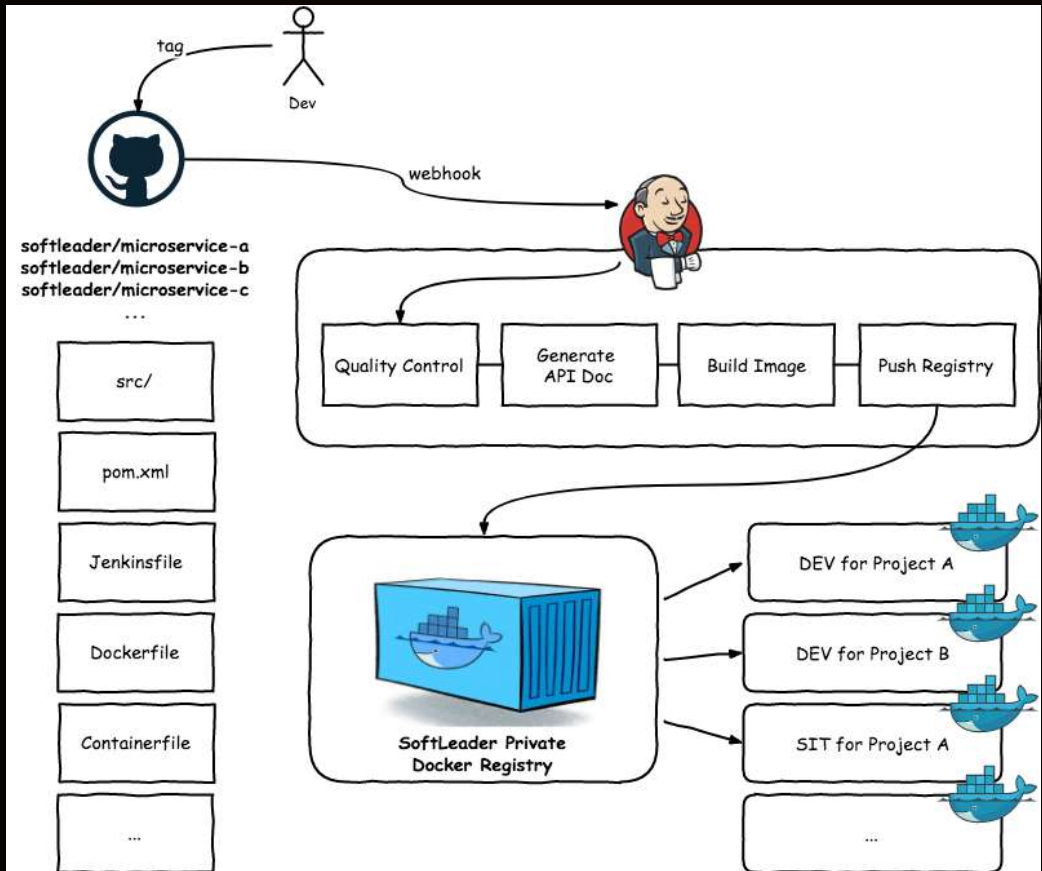
- 興業領導能力
- 領導梯隊發展

- 組織結構對焦調整
- 關鍵營運流程優化
- 績效管理模式活化









- Home
- Catalog
- Workloads
- Networking
- Storage
- Builds
- Monitoring
- Compute
- Administration ▾
 - Cluster Status
 - Cluster Settings
 - Namespaces
 - Service Accounts
 - Roles
 - Role Bindings
 - Resource Quotas
 - Limit Ranges
 - Custom Resource Definitions

 Project: all projects ▾
⊕ Add ▾

Cluster Status

Health

Kubernetes API

UP

All good

OpenShift Console

UP

All good

Alerts Firing

0

Alerts

Crashlooping Pods

2

Pods

Control Plane Status

API Servers Up

Controller Managers Up

Schedulers Up

API Request Success Rate


Capacity Planning

CPU Usage

Memory Usage

Disk Usage

Pod Usage


Events


 All Types ▾

 All Categories ▾

Software Info

Kubernetes

v1.13.4 #12cc675

Documentation

[Full Documentation](#)

From getting started with creating your first application, to trying out more advanced build and deployment techniques, these resources provide what you need to set up and manage your environment as a cluster administrator or an application developer.

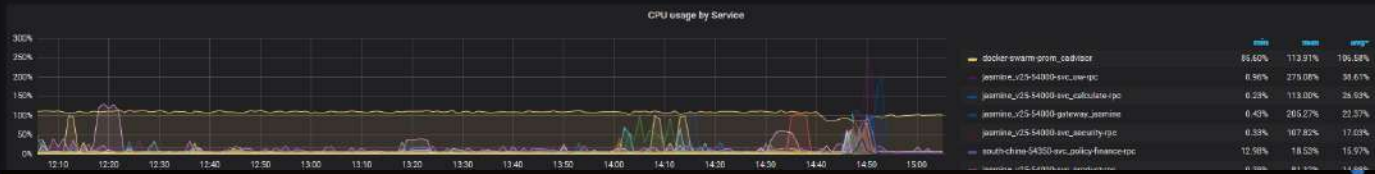
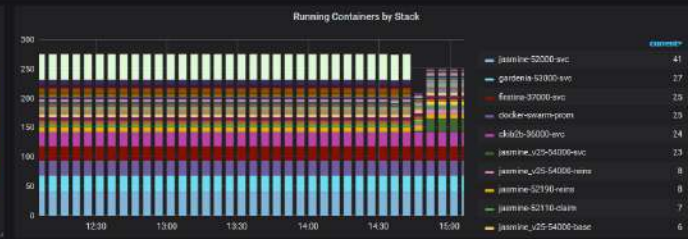
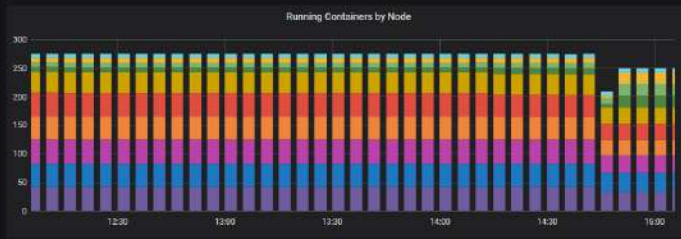
Additional Support

- [Interactive Learning Portal](#)
- [Local Development](#)
- [YouTube](#)
- [Blog](#)



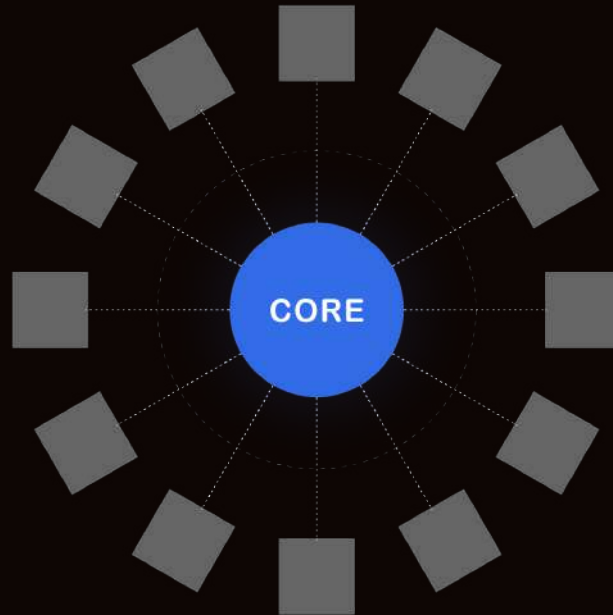
Docker Swarm Services -

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結語

強核心，多週邊



建立一個充滿 API 的世界



amazon



Microsoft

Google facebook



CORE

New Business

IBM 2019
Cloud
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