

# 乘著K8s在DevOps領域翱翔

2020 KUBERNETES SUMMIT

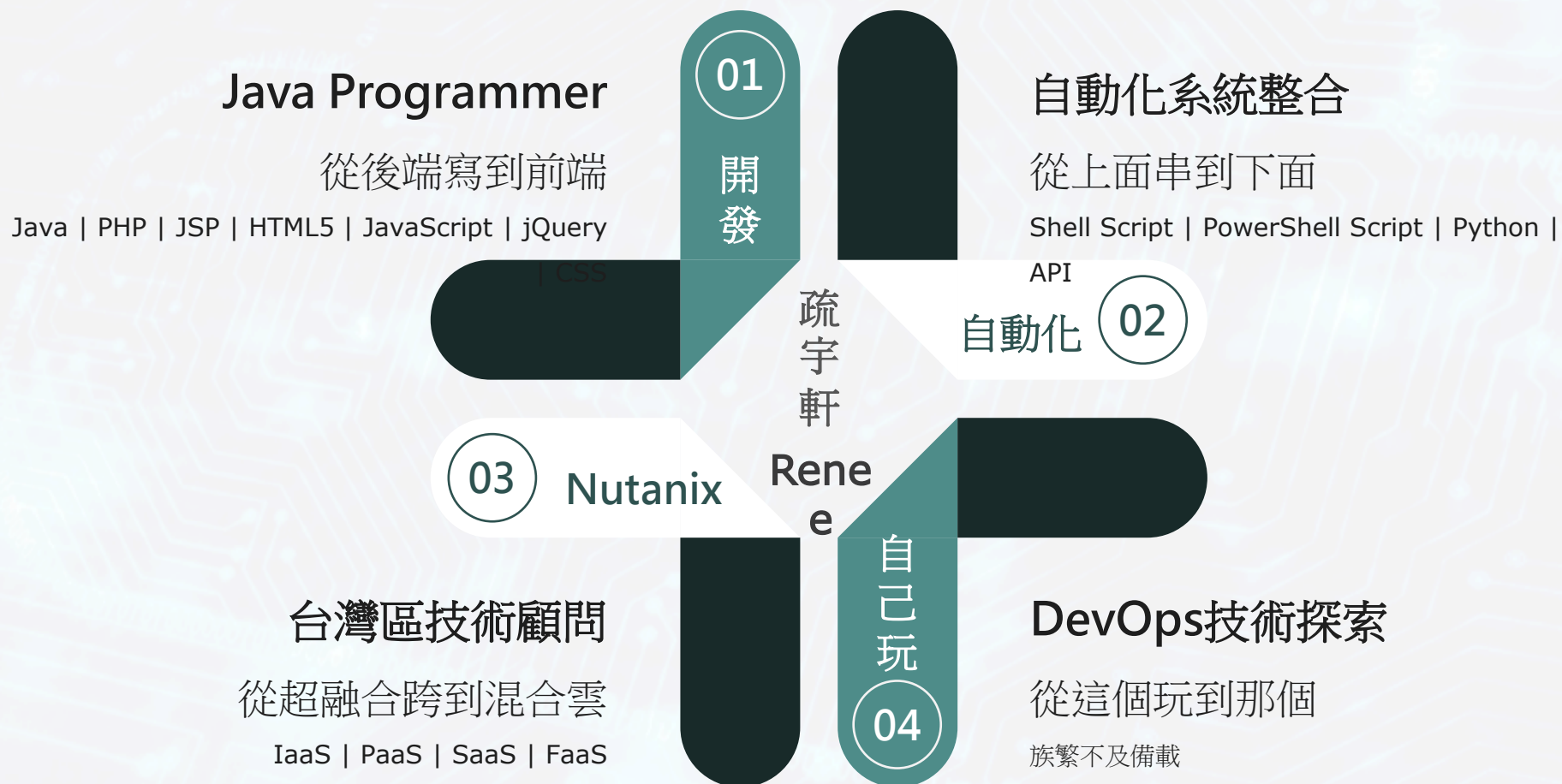
NUTANIX 台灣技術顧問 | 疏宇軒 RENEE

# — About

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# About Me



# About Nutanix-企業雲平台公司

使資料中心基礎架構變得隱形，讓IT專注於應用程式和服務

**73+** Forbes 100

**910+** Global 2000

**16,580+** Total customers

**49%** AHV adoptions



# About Nutanix-超融合是新一代資訊基礎架構的趨勢

**Nutanix 獲 Gartner 超融合基礎架構魔力象限領導者殊榮。**

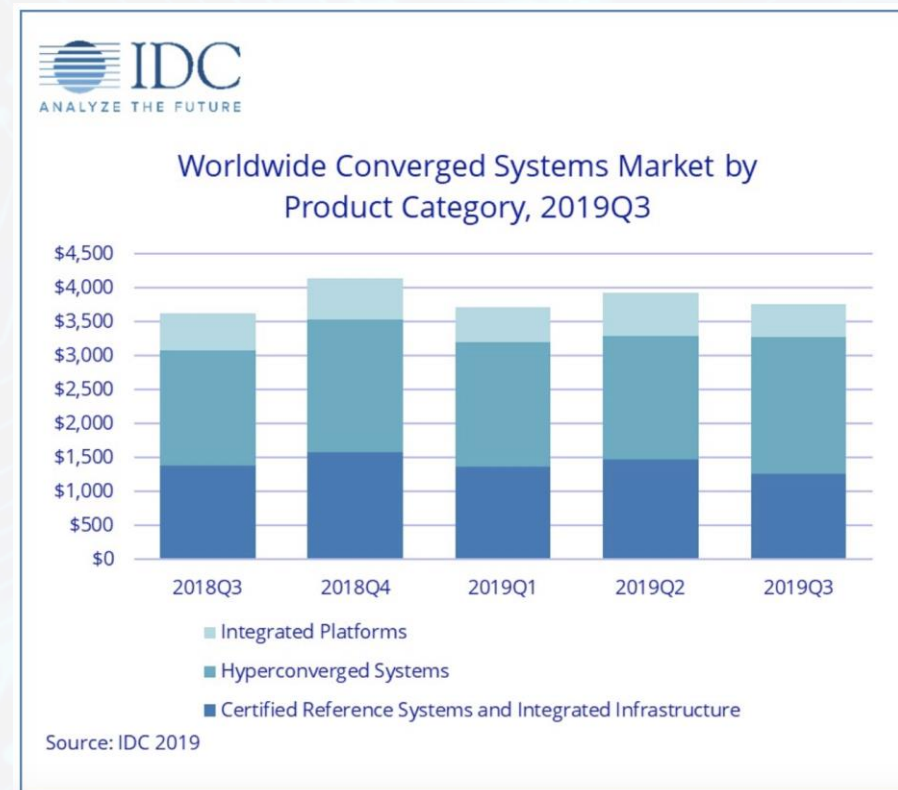
“在 HCI 可擴充性和管理功能增強的推動下，2019 年運行 HCI 的企業低於 30%，但到 2023 年，70% 的企業將運行某種形式的 HCI（亦即超融合機、軟體、雲形式）。”

**Gartner**



**IDC 整合系統市場分析報告，提到超融合是營收成長最高的資訊基礎架構。**

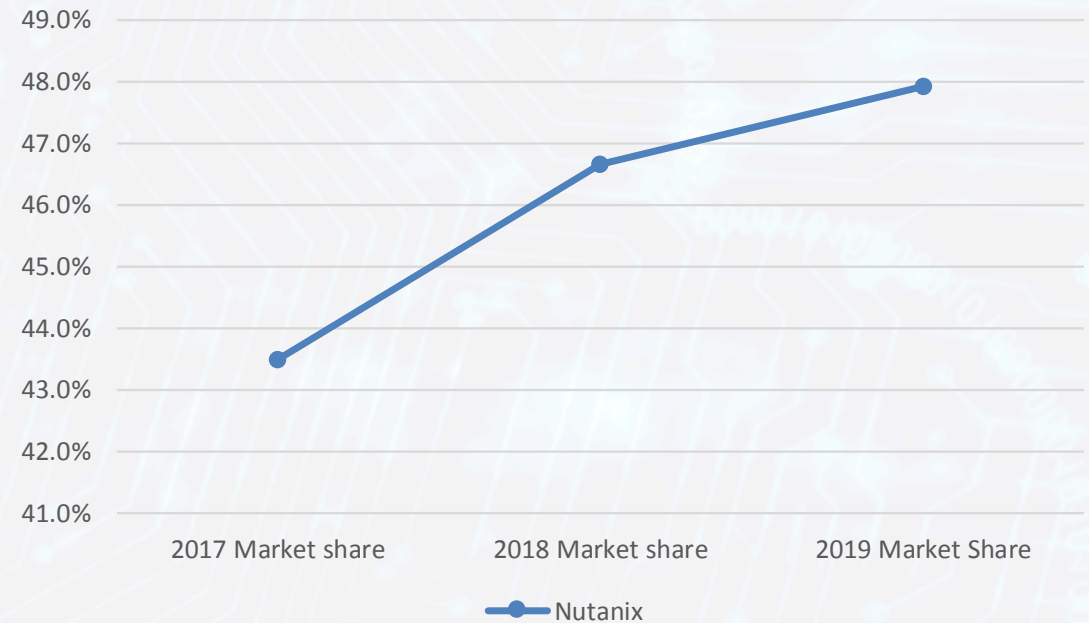
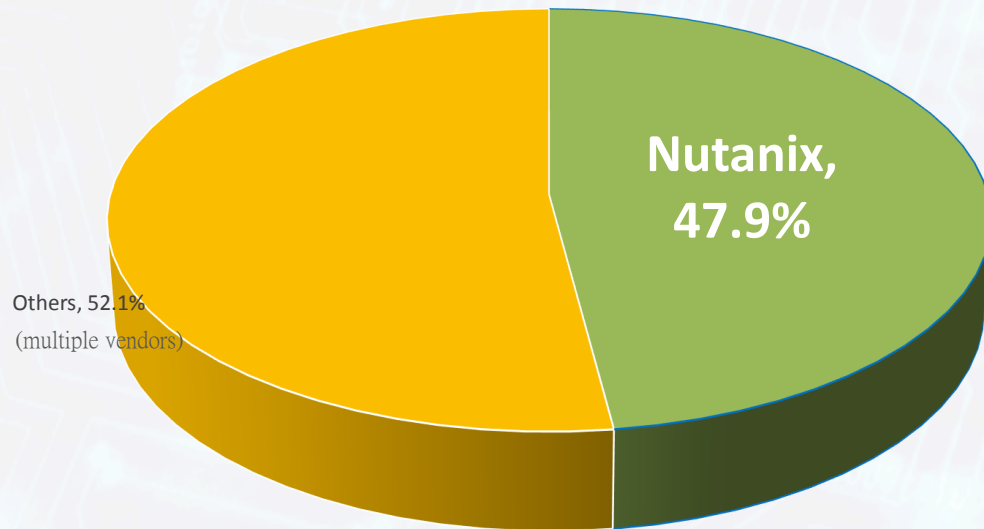
“2019 年第三季度，超融合系統銷售收入同比增長 18.7%，創造了近 20.2 億美元的銷售額。佔整個融合系統市場的 53.7%。”





# About Nutanix-台灣超融合市場的領導品牌

According to IDC, Nutanix is **#1** in Taiwan HCI Systems market based on HCI SW Vendor Owner View for 4 consecutive years, accounted for **47.9%** revenue market share in 2019



We are still growing!

Source: IDC Worldwide Quarterly Converged Systems Tracker, 2019Q4 (March 2020 release)



# Nutanix Portfolio 落實企業數位轉型旅程





# — 正題：乘著K8s在DevOps領域翱翔

飛去哪？



# Technology Trends



CLOUD-NATIVE

到2022年, **90%** 的企業應用服務將採用微服務架構, 以實現可移植性和敏捷性



AI-DRIVEN ENTERPRISE

到2023年, AI將成為驅動基礎架構決策的 **top workloads** 之一



HYBRID AND  
MULTI-CLOUD

到2022年, 超過**50%**的數據將在data center外進行處理  
Public Cloud用戶通常擁有多個雲服務提供商



# 需求

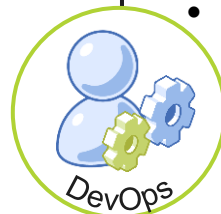


通過快速推出新產品和服務來  
加速創新

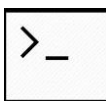


開發

- 快速開發應用  
Leveraging simple, open abstraction of rich services.
- **Build apps once**
  - Deploy it anywhere, independent of infrastructure provider .



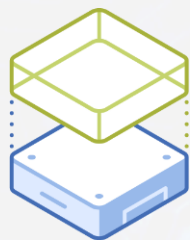
- 簡化維運  
Different infrastructure providers and services.
- 一致性  
Have consistent security model, with unified observability.



佈署及維運



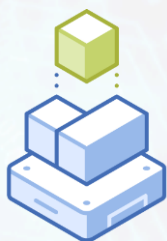
# Kubernetes: 便攜性 + 敏捷性 → 複雜性



Server Virtualization



不變的應用



Microservices

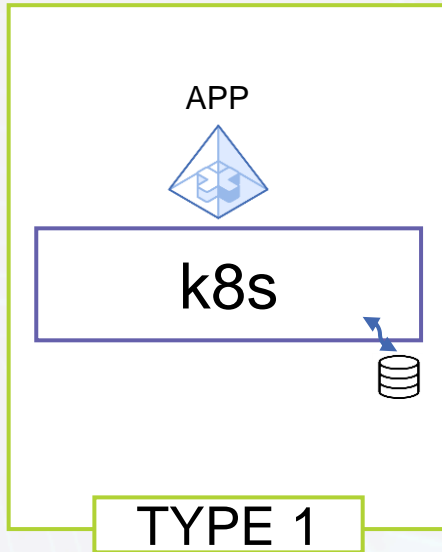


分散式架構需要分布式工具、Message Bus、Service mesh 和其他服務...

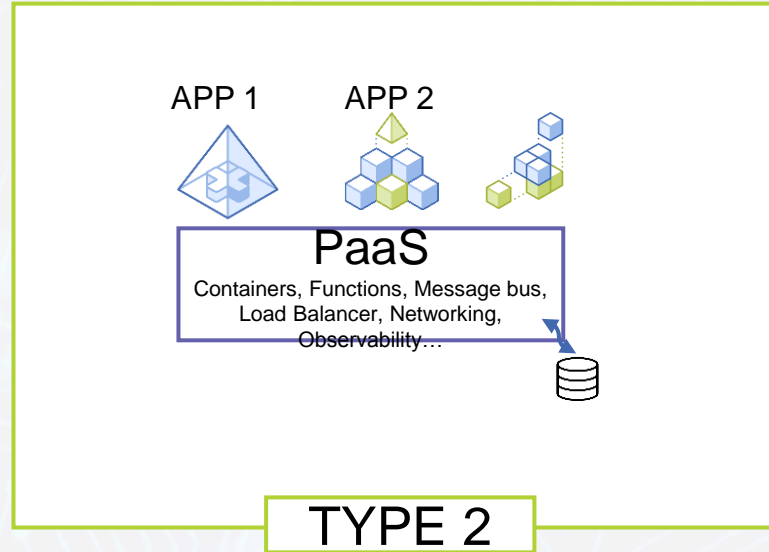
Kubernetes 並非 新的虛擬化層，  
但為架構應用程序和協調服務提供了新的範例

# 應用設計模式

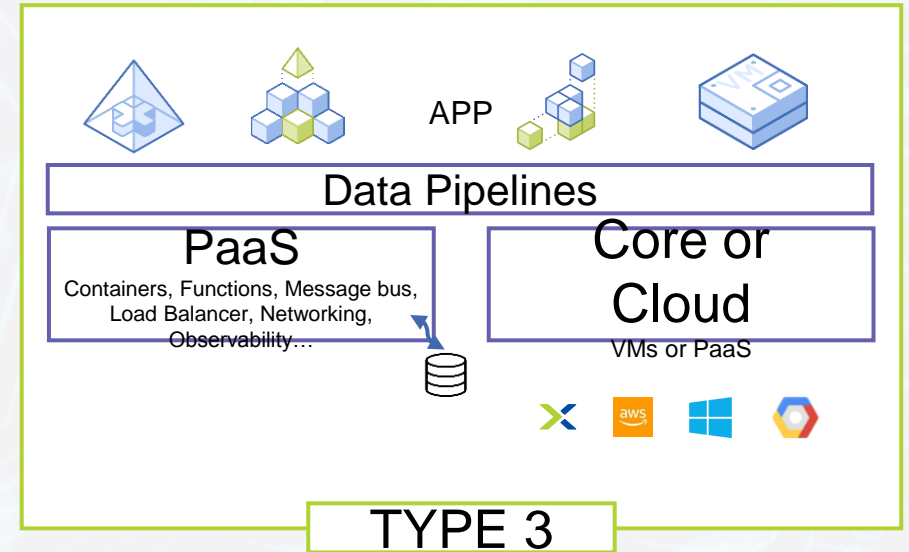
簡單的容器化應用



微服務應用



AI | IoT | 混合應用





# 兩者都是有效的選擇：您想要哪個？



Focus on “How”  
(Control with Responsibility)

Rancher  
Anthos GKE



Focus on “What”  
(Agility with Control)

OpenShift  
AWS, Azure, GCP Services



# Introducing “Karbon Services” PaaS

Karbon  
Kubernetes Service

**Managed K8s**  
“Kubernetes management  
made simple.”

Available  
Now



Karbon  
Platform Services

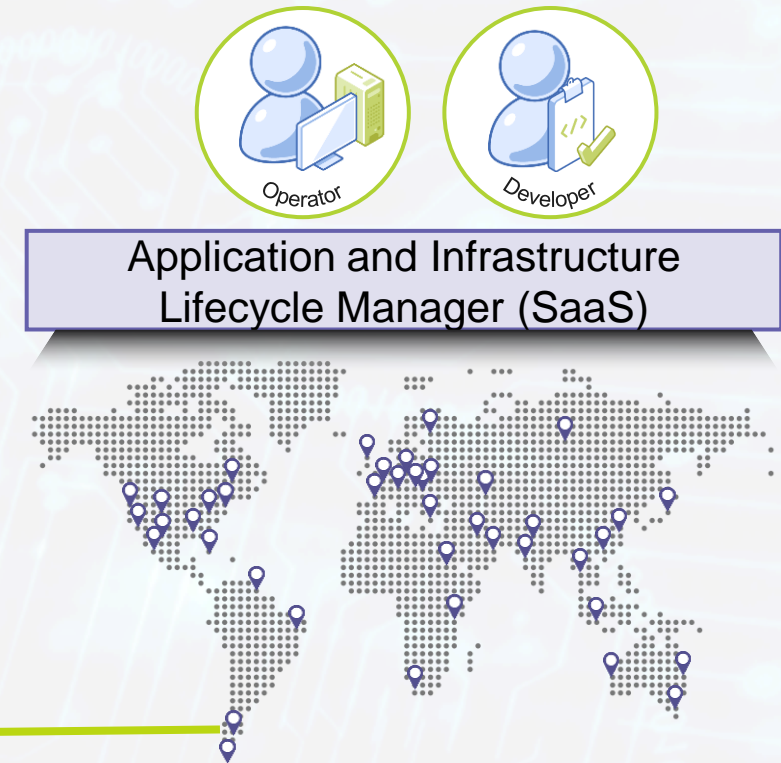
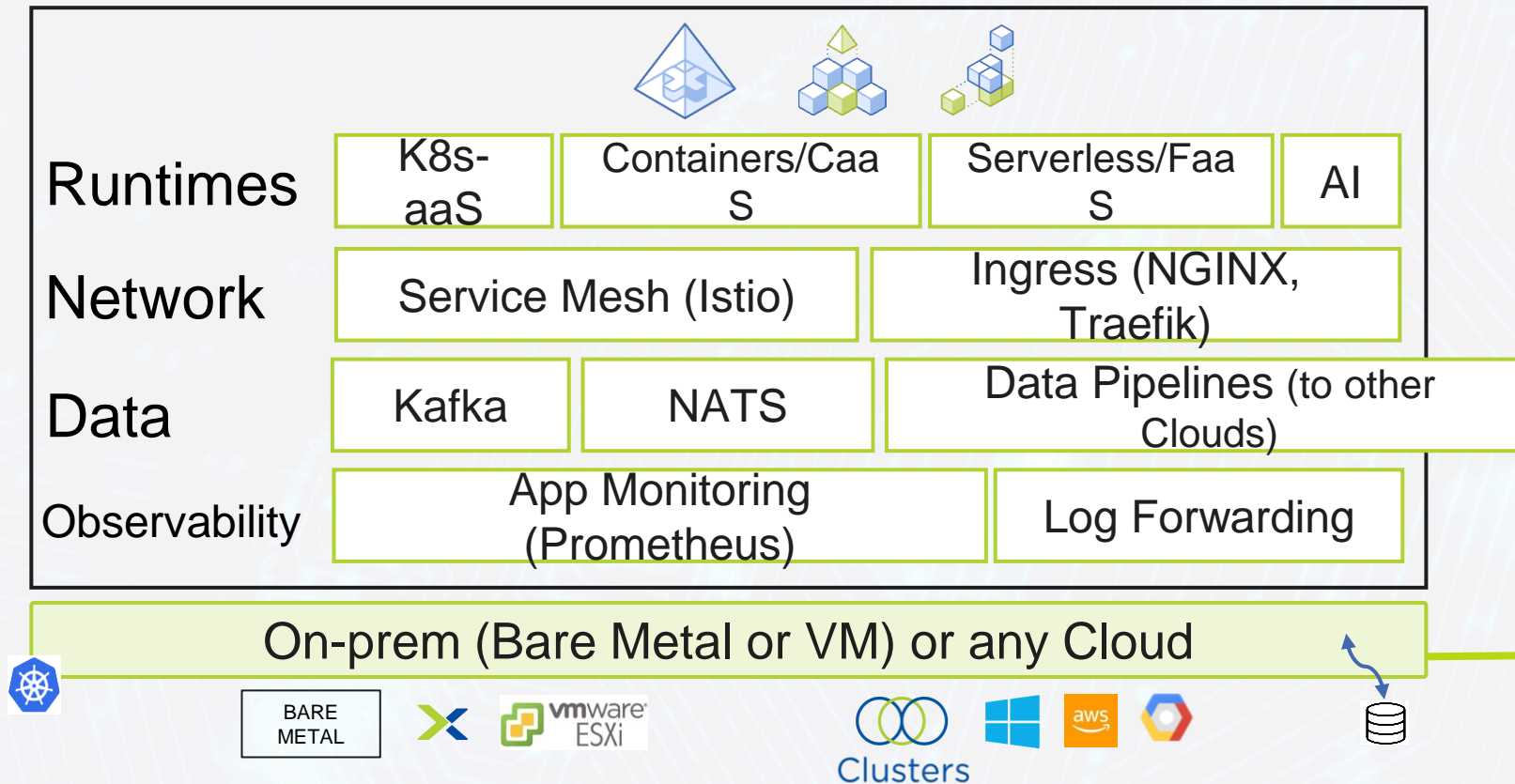
**Multi-Cloud Services**  
“Simply consume rich, secure,  
managed services across multi-cloud.”







# Karbon Services: K8s-based Multi-Cloud PaaS



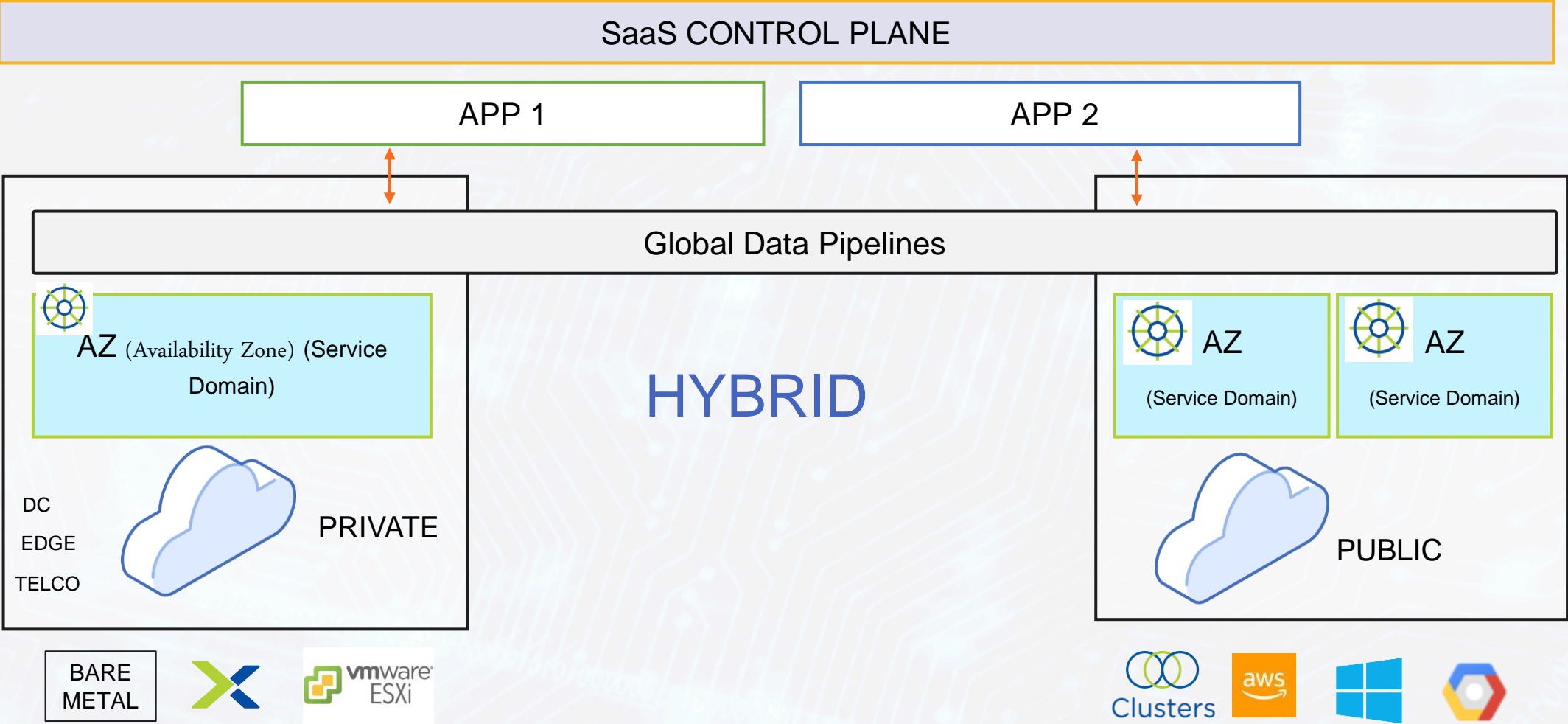
Rich, secure, managed, multi-cloud PaaS services for rapid development and deployment of cloud-native apps

SaaS application and infrastructure lifecycle management to simplify operations and allow apps to be inventoried-once and deployed anywhere

Cross-cloud data mobility and Hybrid app management through transparent, WAN-optimized pipelines and extensible data interfaces



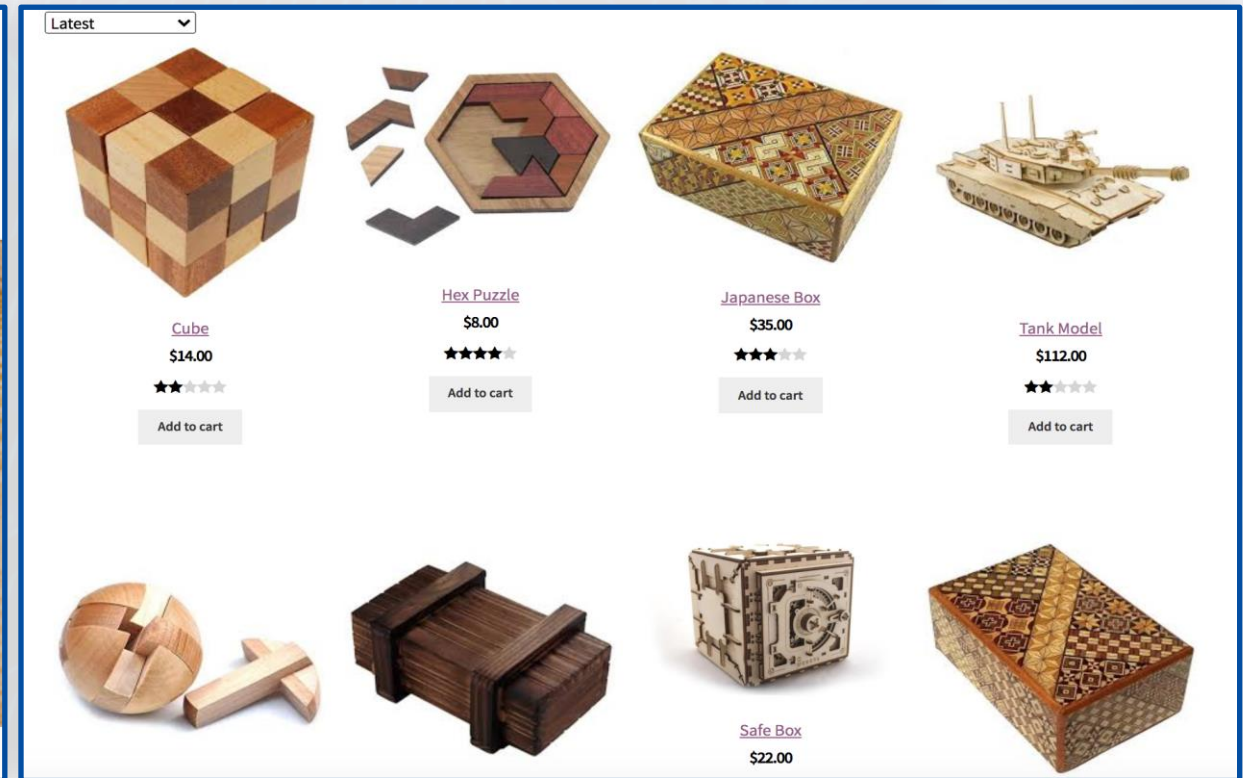
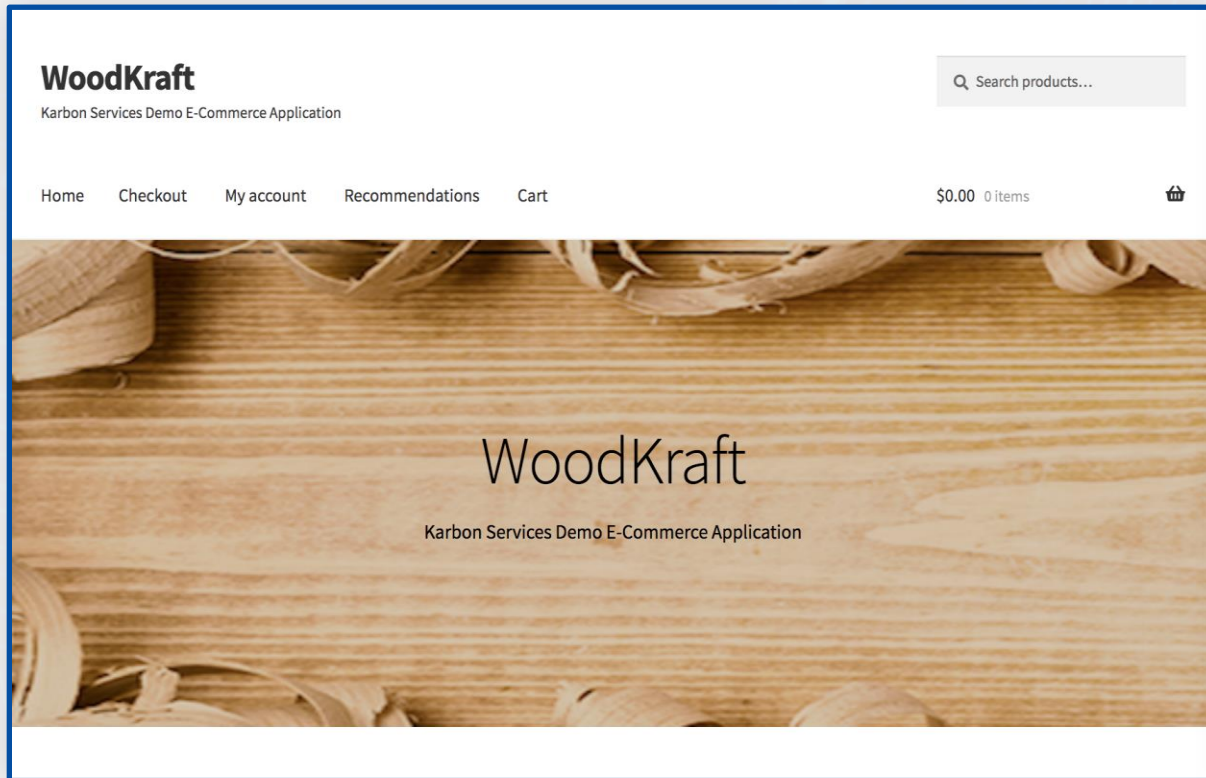
# A PaaS that Bridges Clouds



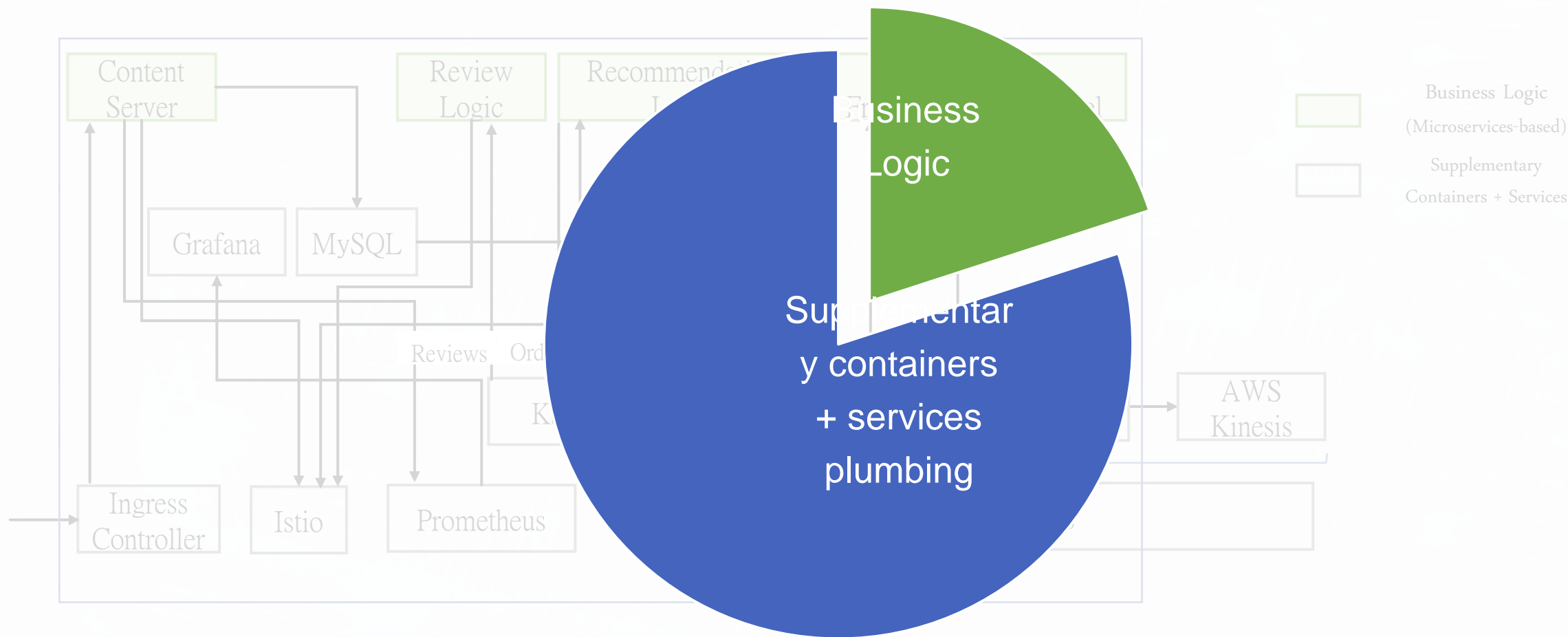
AZ: Availability Zones



# Web-based E-commerce App



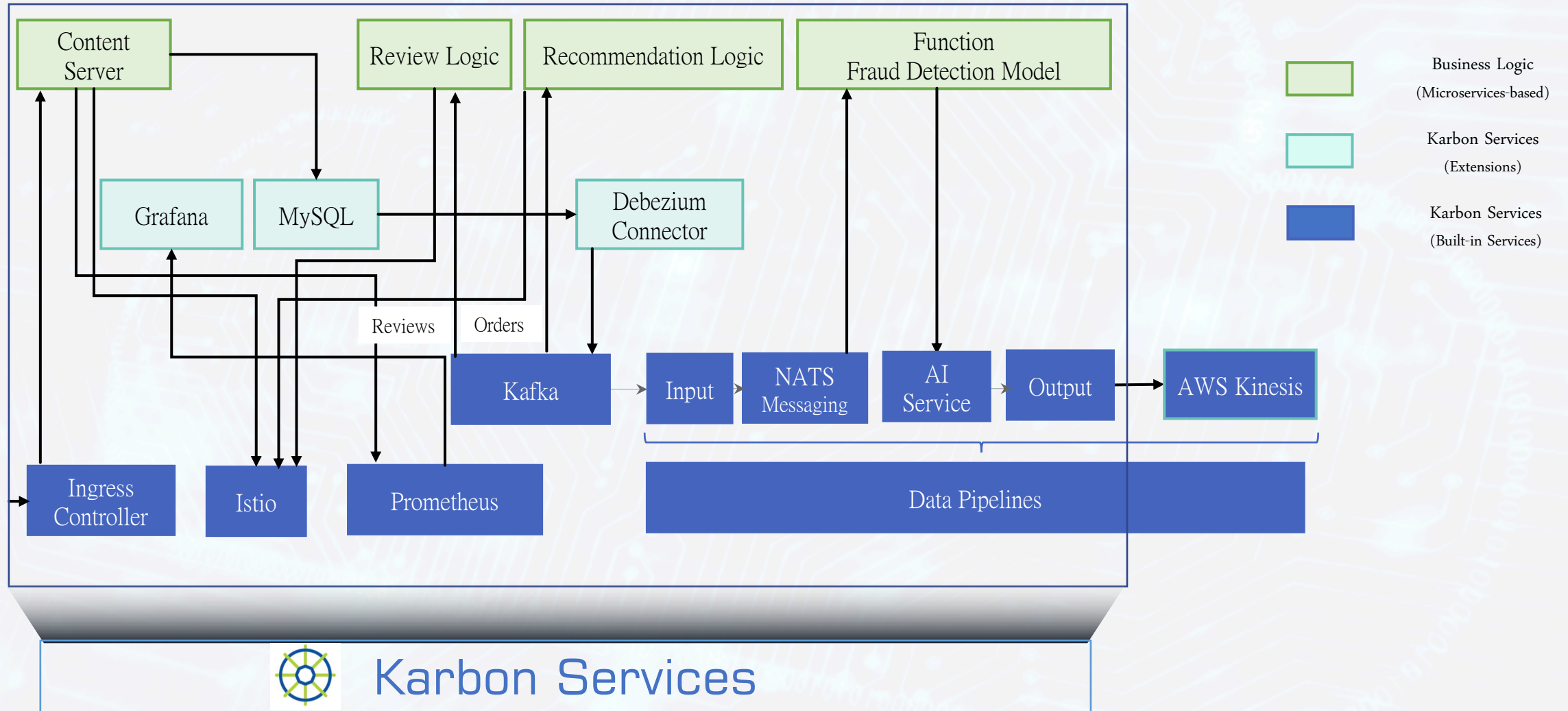
# Deployment Blueprint





# Deployment Blueprint (with Karbon Services)

Simple, Secure and Speedy deployment: Focusing just on the business logic



# Extensible PaaS through Service Broker Architecture



- Be functional quickly with built-in services, while at the same time BYO services.
- Leverage built-in interfaces framework to extend and connect services across multi-cloud







# Start Your Modernization Journey Now...



Karbon Services Control Plane



Import existing Kubernetes cluster  
at [karbon.nutanix.com](https://karbon.nutanix.com)



Start free trial @  
<https://www.nutanix.com/karbon>

Workshop Signup ▶



Send an email to  
[karbon-services@nutanix.com](mailto:karbon-services@nutanix.com)





Thank You