

# AWS 概覽

→ 報告人 | 楊惠強  
眾恩小組 2021-08-14

# AWS 大綱

**Introduction** | AWS Cloud 簡介

**Global Infrastructure** | 全球基礎設施

**Security** | 安全性

**Services & Use Cases** | 關鍵服務與使用案例

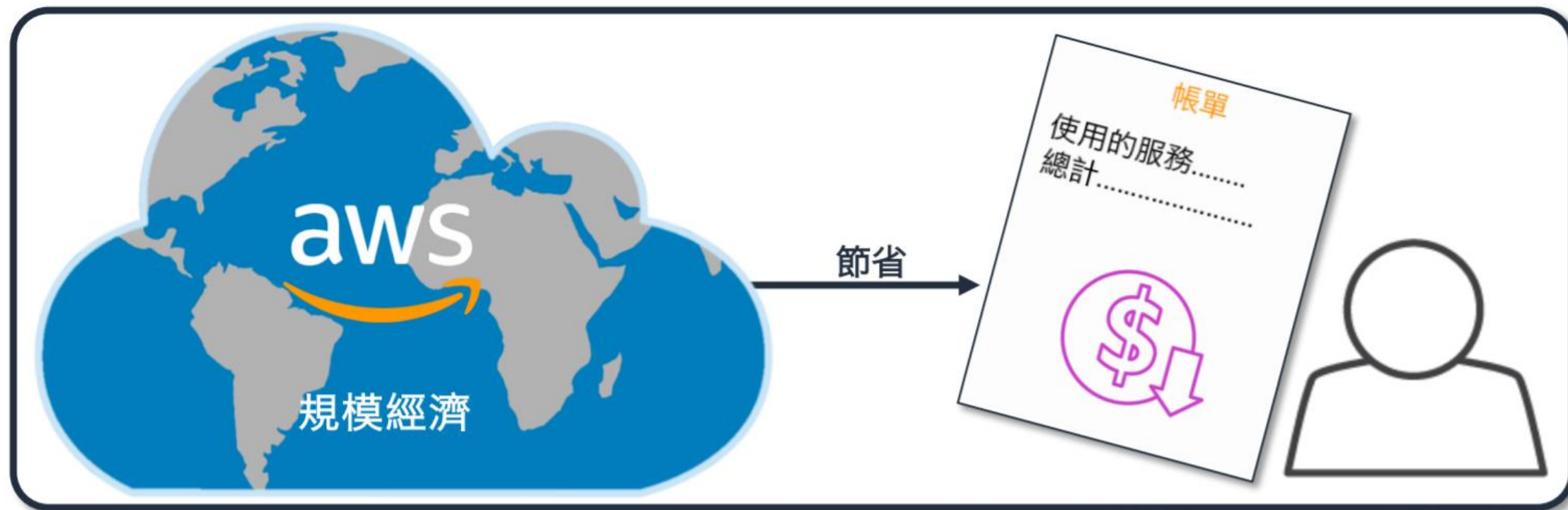
# AWS 簡介

→ What | Why

# AWS 雲端優點一 別再把錢花在運作和維護資料中心上



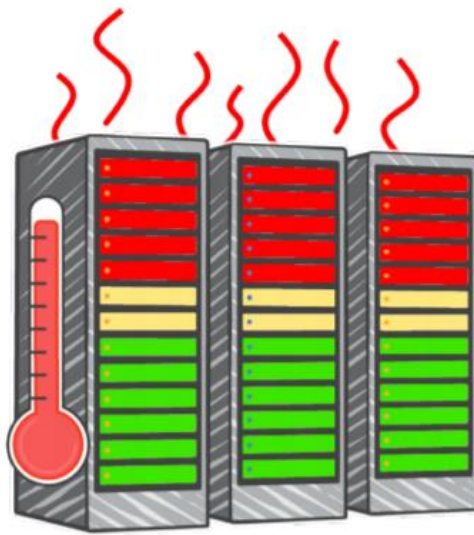
## AWS 雲端優點二 大範圍規模經濟效益



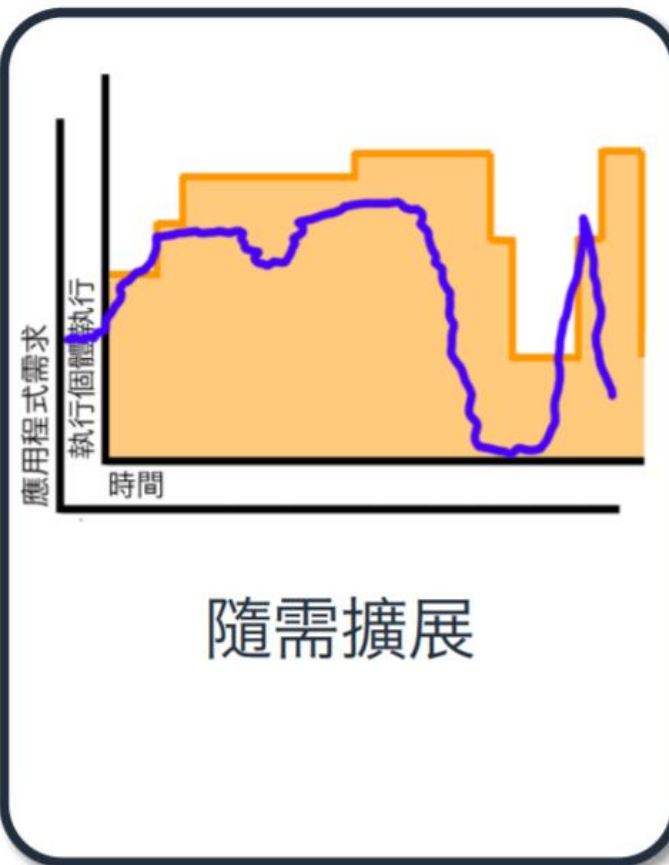
## AWS 雲端優點三 無需猜測容量



高估  
伺服器容量



低估  
伺服器容量

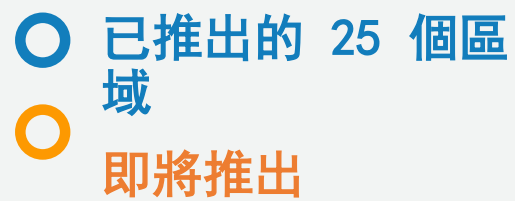


隨需擴展

# 全球基礎設施

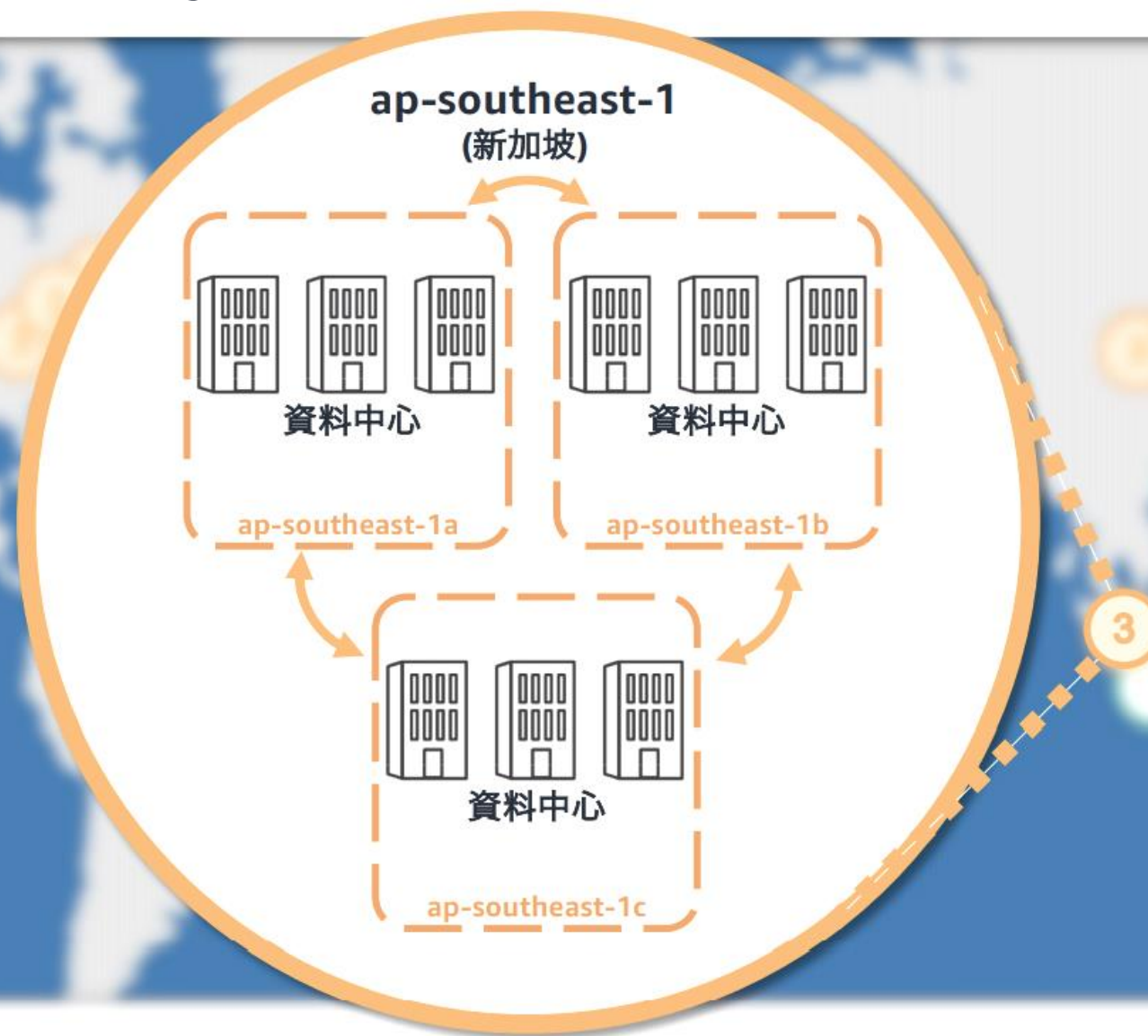
→ 區域 | 可用區域 | 節點

## 區域 (Region)

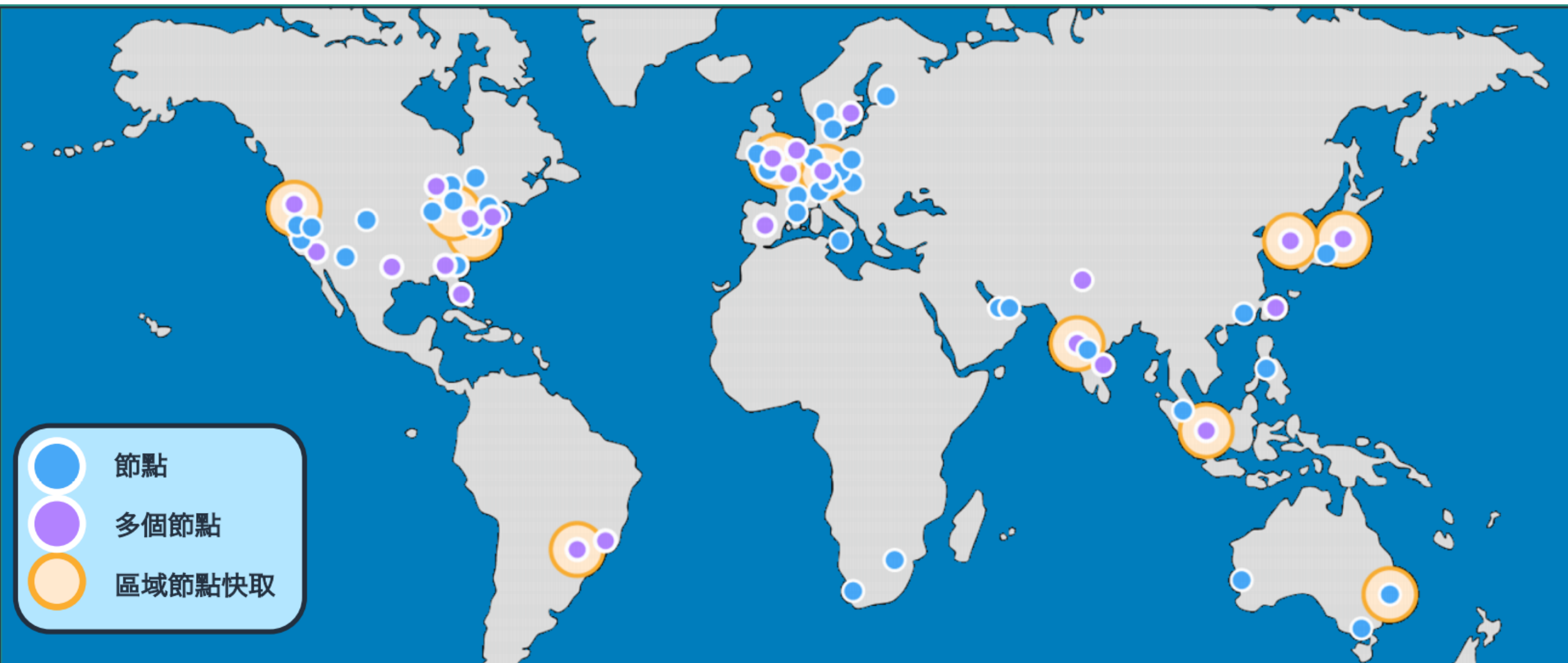




# 可用區域 Availability Zone



# 節點(Edge Location)

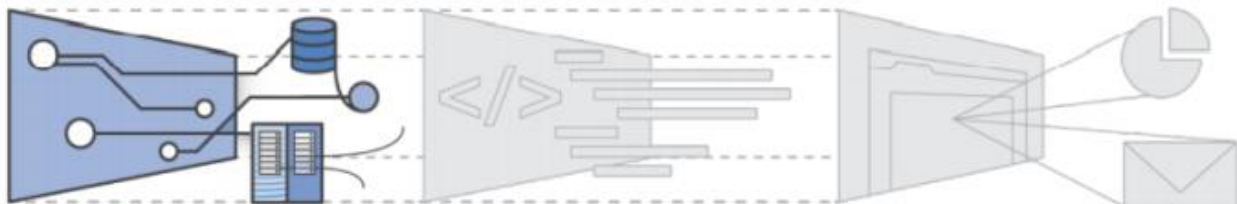


# 安全性

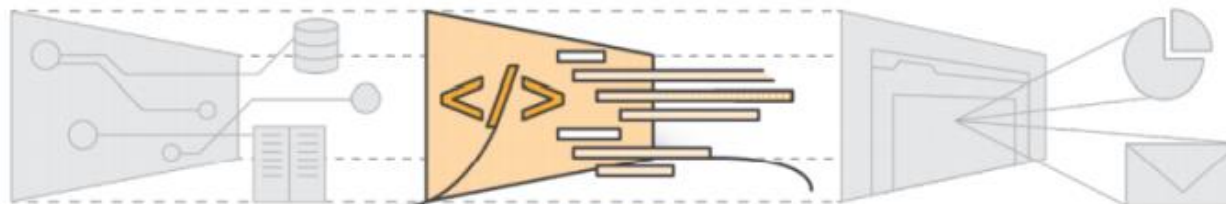
→ 計算模型 | 共同責任模 | 管理服務和資源的存取

# 計算模型

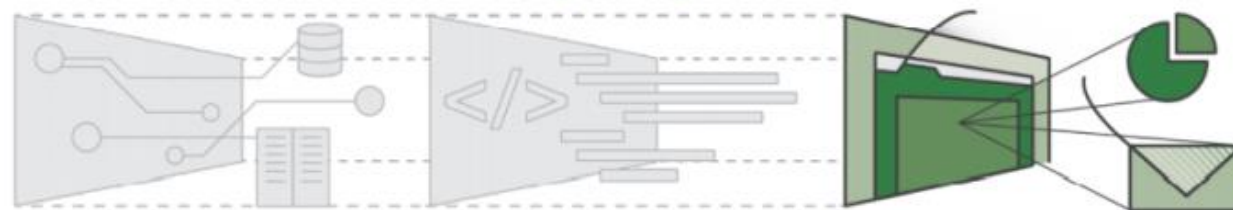
## Infrastructure as a Service (IaaS)



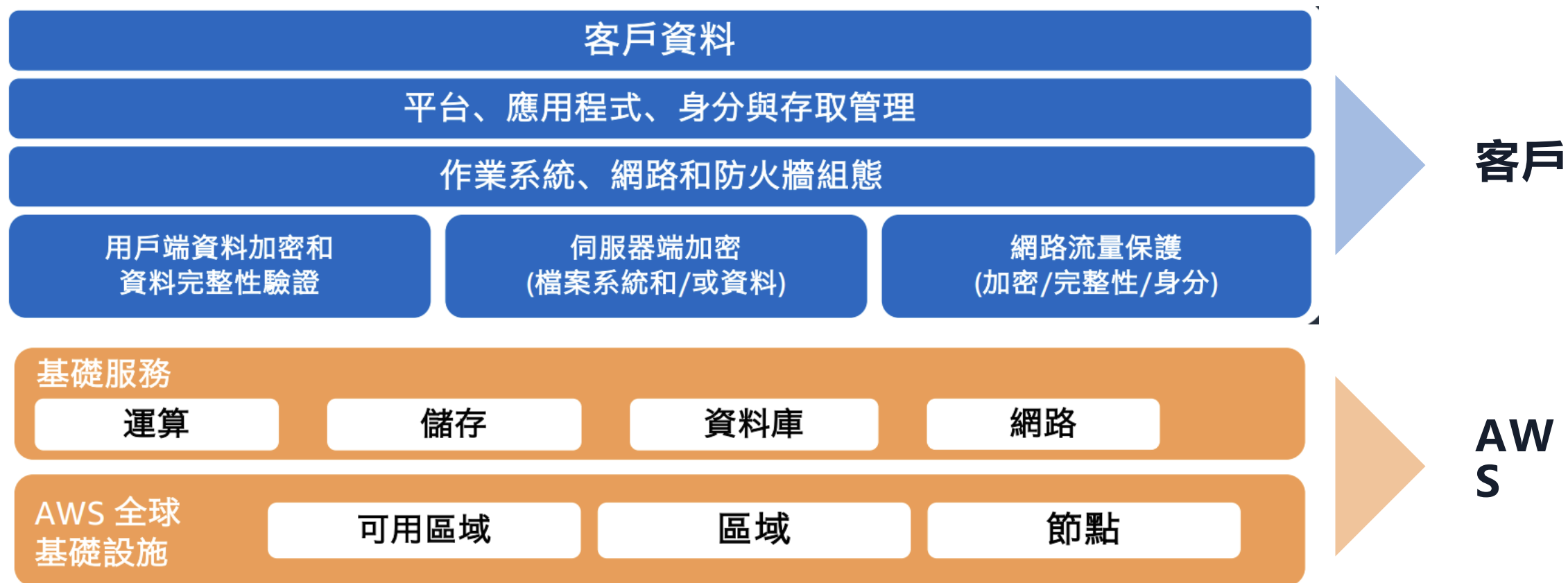
## Platform as a Service (PaaS)



## Software as a Service (SaaS):



# 共通的責任模型



# 管理服務與資源的存取

## Sign up for AWS

Email address

You will use this email address to sign in to your new AWS account.

Password

Confirm password

AWS account name

Choose a name for your account. You can change this name in your account settings after you sign up.

[Continue \(step 1 of 5\)](#)

[Sign in to an existing AWS account](#)

### Services



IAM

Manage access to AWS resources

### Features

[See all 10 results ▶](#)

#### Groups



IAM feature

#### Roles



IAM feature

#### Policies



IAM feature

#### Users



IAM feature

# 關鍵服務與使用案例

→ AWS 管理主控台、儲存、運算、傳輸、服務

<https://aws.amazon.com/tw/console/>

合作夥伴網路 AWS Marketplace 客戶支援 事

功能 常見問答集

# AWS 管

透過一個 Web 界面，為您提

## AWS 管理主控台

選擇區域

啟動資源、服務

各種運算工具

<https://aws.amazon.com/tw/console/>

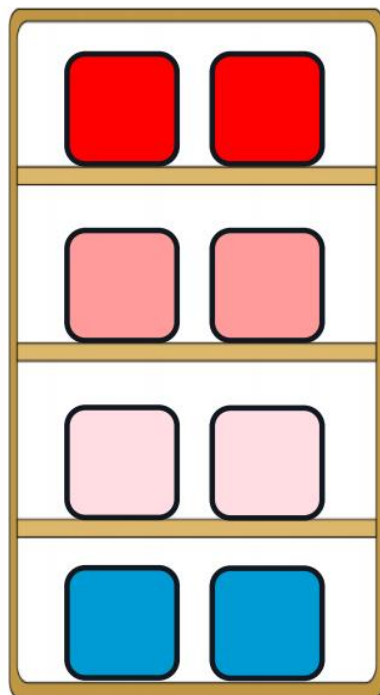


# 儲存 | S3 使用案例 可將資料分為 hot、warm、cold 分等儲存

備份 & 儲存

靜態網站託管

媒體託管



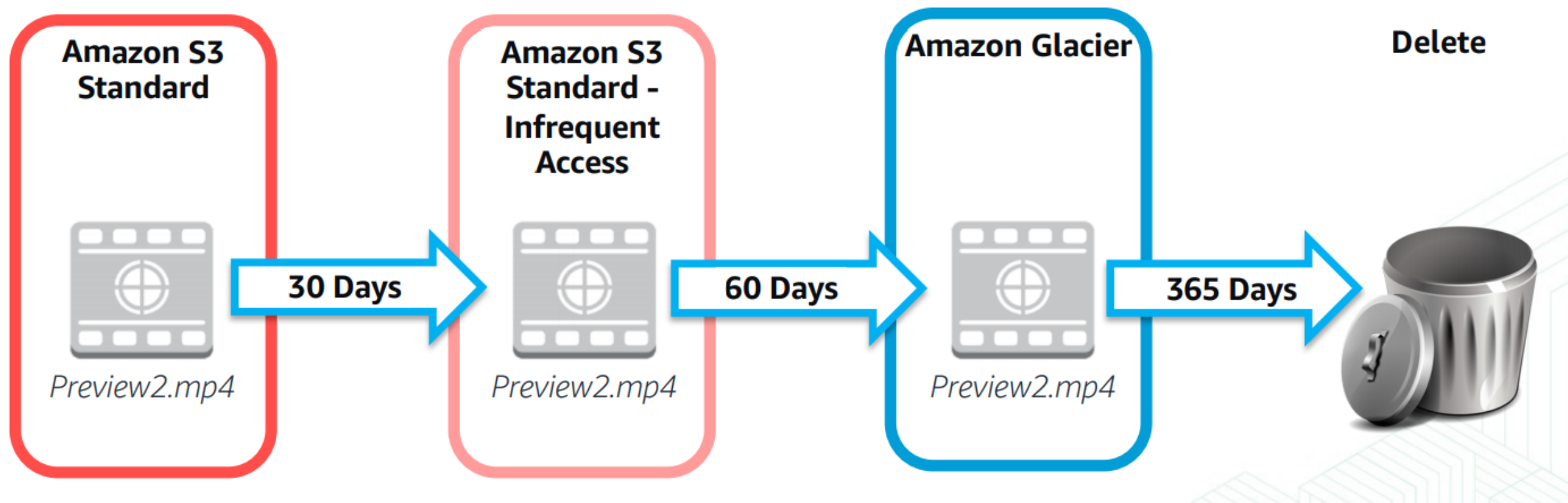
-  **S3 Standard:**  
General purpose
-  **S3 Standard IA:**  
Infrequent but rapid access
-  **S3 One Zone IA:**  
Re-creatable, infrequently accessed data
-  **Amazon Glacier / Deep Archive:**  
Archival data, cheapest available storage tier

## Amazon S3 Intelligent Tiering

Automatically moves your objects between two access tiers of storage



# 儲存 | S3 物件的生命週期 可據時間設定管理政策



# Elastic Load Balancer | 自動將流量分散到多個目標



高可用性



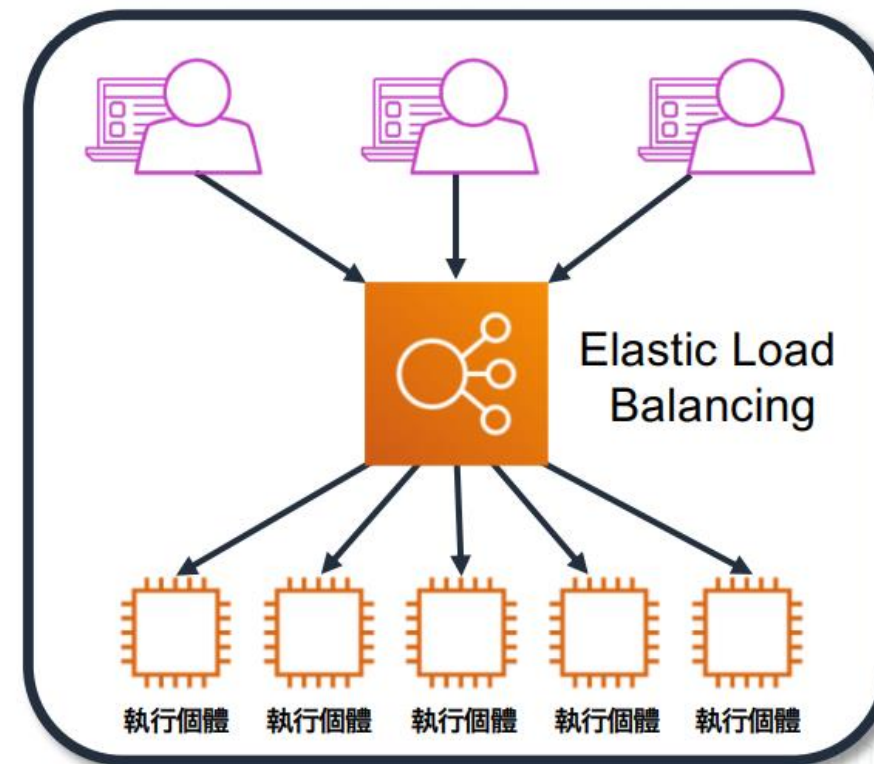
運作狀況檢查



SSL/TLS 終止



操作監控



# CloudWatch | 觀察你的資源 & 應用程式

事件或時間驅動

即時統計分析

系統資源監控



## Amazon CloudWatch

Complete visibility into your cloud resources and applications



### Monitor

Visualize applications and infrastructure with CloudWatch dashboards; correlate logs and metrics side by side to troubleshoot and set alerts with CloudWatch Alarms



### Act

Automate response to operational changes with CloudWatch Events and Auto Scaling



### Analyze

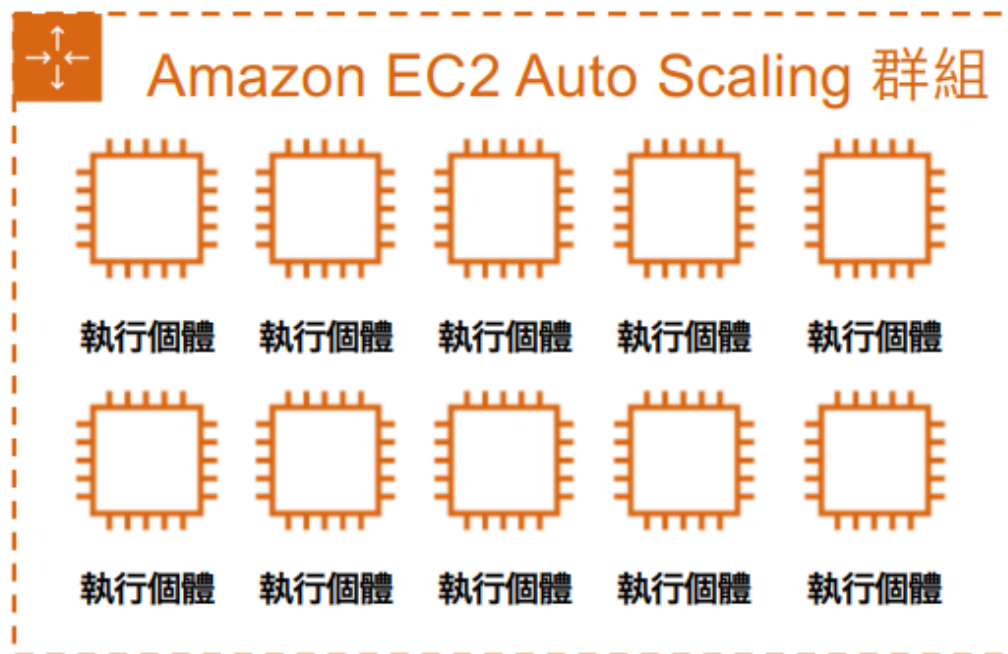
Up to 1-second metrics, extended data retention (15 months), and real-time analysis with CloudWatch Metric Math

# CloudWatch | 隨需擴展 / 縮減工作負載

選擇負載指標

設定條件

設定排程



MAX 10  
MIN 2  
NECESSITY 2

# 敬請指教