



# AWS 區域 2025 落地台灣，提供 數位轉型雲端驅動力

**Michael Lin**

Sr. Solutions Architect  
Amazon Web Services

# Agenda

- Digital Transformation and Cloud Computing
- Evaluation of Cloud Service Providers
- Migration and Modernization
- Getting Started on the Cloud Journey

# Digital Transformation and Cloud Computing



# Cloud Unlocks \$3 Trillion in Business Value Beyond Cost Savings

- McKinsey projects \$3 trillion in EBITDA potential by 2030 across Fortune 2000 companies
- Innovation value from cloud exceeds IT cost savings by 5x
- Organizations can achieve 20-30% EBITDA uplift across sectors
- Cloud democratizes enterprise capabilities, shifting advantage from scale to skill

[https://www.mckinsey.com/capabilities/mckinsey-digital/our-insights/from-legacy-to-cloud-lessons-from-the-trenches;](https://www.mckinsey.com/capabilities/mckinsey-digital/our-insights/from-legacy-to-cloud-lessons-from-the-trenches)

[https://www.mckinsey.com/capabilities/mckinsey-digital/our-insights/in-search-of-cloud-value-can-generative-ai-transform-cloud-roi;](https://www.mckinsey.com/capabilities/mckinsey-digital/our-insights/in-search-of-cloud-value-can-generative-ai-transform-cloud-roi)

[https://www.mckinsey.com/capabilities/mckinsey-digital/our-insights/projecting-the-global-value-of-cloud-3-trillion-is-up-for-grabs-for-companies-that-go-beyond-adoption;](https://www.mckinsey.com/capabilities/mckinsey-digital/our-insights/projecting-the-global-value-of-cloud-3-trillion-is-up-for-grabs-for-companies-that-go-beyond-adoption)

<https://www.mckinsey.com/featured-insights/mckinsey-explainers/what-is-cloud-computing>



# Successful Cloud Transformation Demands Enterprise-Wide Evolution

- Cloud requires reimagining technology development, operations, and management
- Leading organizations align business value cases, build robust foundations, and adopt product-oriented models
- Lincoln Financial's success required shifting from static infrastructure to consumption-based optimization
- 90% of companies have yet to fully capture cloud's potential value

<https://www.mckinsey.com/capabilities/mckinsey-digital/our-insights/from-legacy-to-cloud-lessons-from-the-trenches>;

<https://www.mckinsey.com/capabilities/mckinsey-digital/our-insights/in-search-of-cloud-value-can-generative-ai-transform-cloud-roi>;

<https://www.mckinsey.com/capabilities/mckinsey-digital/our-insights/projecting-the-global-value-of-cloud-3-trillion-is-up-for-grabs-for-companies-that-go-beyond-adoption>;

<https://www.mckinsey.com/featured-insights/mckinsey-explainers/what-is-cloud-computing>



# Generative AI Revolutionizes Cloud Economics and Accelerates Transformation

- Gen AI adds 75-110 percentage points of incremental ROI to cloud initiatives
- Application migration costs and timelines reduced by 40% through Gen AI
- Cloud infrastructure is essential for enterprise-scale Gen AI deployment
- Gen AI-enabled workflows create compelling business cases for legacy system migration

<https://www.mckinsey.com/capabilities/mckinsey-digital/our-insights/from-legacy-to-cloud-lessons-from-the-trenches>;

<https://www.mckinsey.com/capabilities/mckinsey-digital/our-insights/in-search-of-cloud-value-can-generative-ai-transform-cloud-roi>;

<https://www.mckinsey.com/capabilities/mckinsey-digital/our-insights/projecting-the-global-value-of-cloud-3-trillion-is-up-for-grabs-for-companies-that-go-beyond-adoption>;

<https://www.mckinsey.com/featured-insights/mckinsey-explainers/what-is-cloud-computing>



# Evaluation of Cloud Service Providers



# Why customers choose AWS

## Leadership

Cloud Pioneer and Leader

Most Experience

Enterprise Support

## Operational Resiliency

Global Reach & Scale

Better Availability & Higher Reliability

Security & Compliance

## Long Term Value

Accurate Cost Modelling

Pricing Consistency

Price Reductions Culture

## Culture of Innovation

Customer-Centric Innovation

Rapid Time-To-Market

AWS-Designed Silicon

## Breadth & Depth

200+ Services for any Cloud Workload

Right Tool for the Job

## Large Community

1M+ Customers

Partner Community

Marketplace





Figure 1: Magic Quadrant for Strategic Cloud Platform Services



Gartner

AWS named a Leader in  
2024 Magic Quadrant for SCPS  
by Gartner for  
14th consecutive year



Gartner does not endorse any vendor, product or service depicted in its research publications and does not advise technology users to select only those vendors with the highest ratings or other designation. Gartner research publications consist of the opinions of Gartner's research organization and should not be construed as statements of fact. Gartner disclaims all warranties, expressed or implied, with respect to this research, including any warranties of merchantability or fitness for a particular purpose. This graphic was published by Gartner, Inc. as part of a larger research document and should be evaluated in the context of the entire document. The Gartner document is available upon request from AWS. GARTNER is a registered trademark and service mark of Gartner and Magic Quadrant is a registered trademark of Gartner, Inc. and/or its affiliates in the U.S. and internationally and are used herein with permission. All rights reserved. This report was previously known as Magic Quadrant for Cloud Infrastructure and Platform Services (CIPS) from 2012-2022 and as a Magic Quadrant for Public Cloud Infrastructure as a Service in 2011.

# Regional Expansion

2006 - 2011

## 8 New Regions

N. AMERICA  
Northern Virginia  
Northern California  
Oregon  
GovCloud US-West

S. AMERICA  
São Paulo

EUROPE  
Ireland

ASIA PACIFIC  
Singapore  
Tokyo

2012 - 2017

## 10 New Regions

N. AMERICA  
Ohio  
Canada Central

EUROPE  
Frankfurt  
London  
Paris

ASIA PACIFIC  
Seoul  
Mumbai  
\*Beijing  
\*Ningxia

AUSTRALIA &  
NEW ZEALAND  
Sydney

2018 - 2023

## 15 New Regions

N. AMERICA  
GovCloud US-East  
Canada West

EUROPE  
Stockholm  
Milan  
Zurich  
Spain

MIDDLE EAST  
Bahrain  
UAE  
Tel Aviv

ASIA PACIFIC  
Hong Kong  
Osaka  
Jakarta  
Hyderabad

AFRICA  
Cape Town

AUSTRALIA &  
NEW ZEALAND  
Melbourne

COMING SOON

## 7 New Regions

N. AMERICA  
Mexico

AWS EUROPE SOVERIGN CLOUD  
Germany

MIDDLE EAST  
Kingdom of Saudi Arabia

ASIA PACIFIC  
Thailand  
Malaysia  
Taipei

AUSTRALIA &  
NEW ZEALAND  
Auckland

<https://aws.amazon.com/tw/about-aws/global-infrastructure/>



# Taipei Region Coming Soon

[AWS](#) › [Global Infrastructure](#) › [Taipei](#)

## AWS Asia Pacific (Taipei) Region coming soon

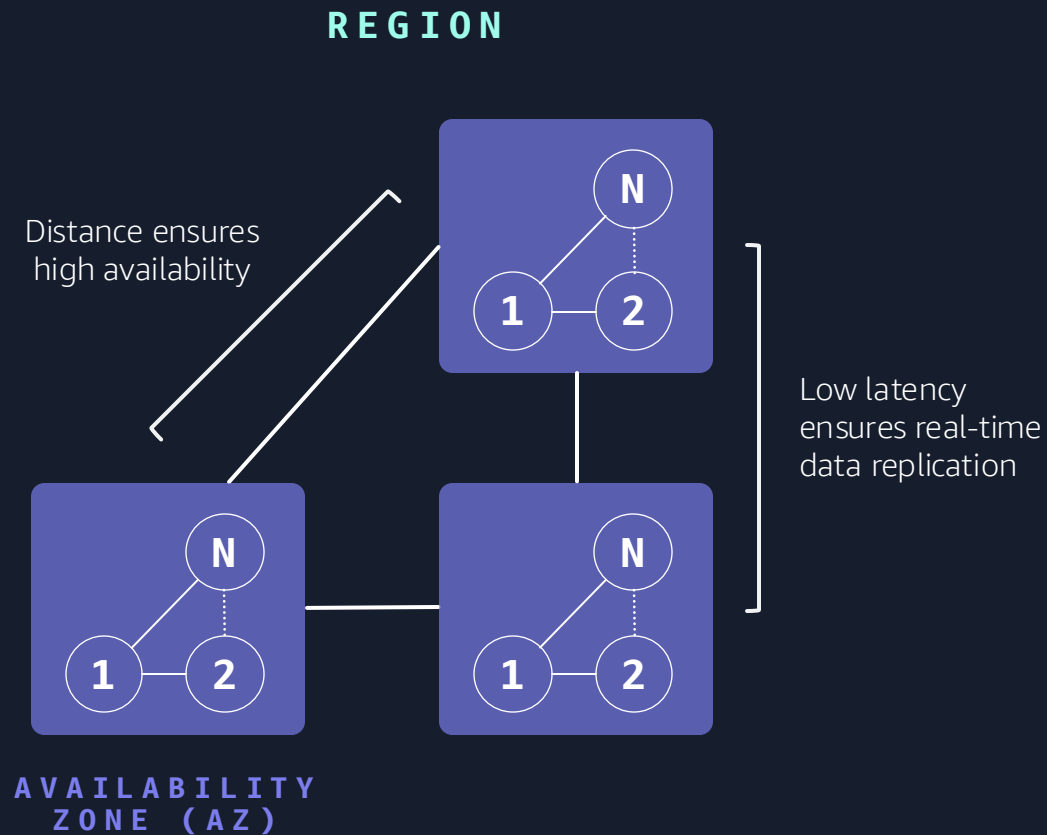
Store your data close to home, connect your  
business to the world

Contact Us

Create a Free Account



# Availability zones design for resiliency



## **ISOLATED PARTITION**

Fully isolated with one or more datacenters

## **POWER**

Highly available, fault tolerant, and scalable

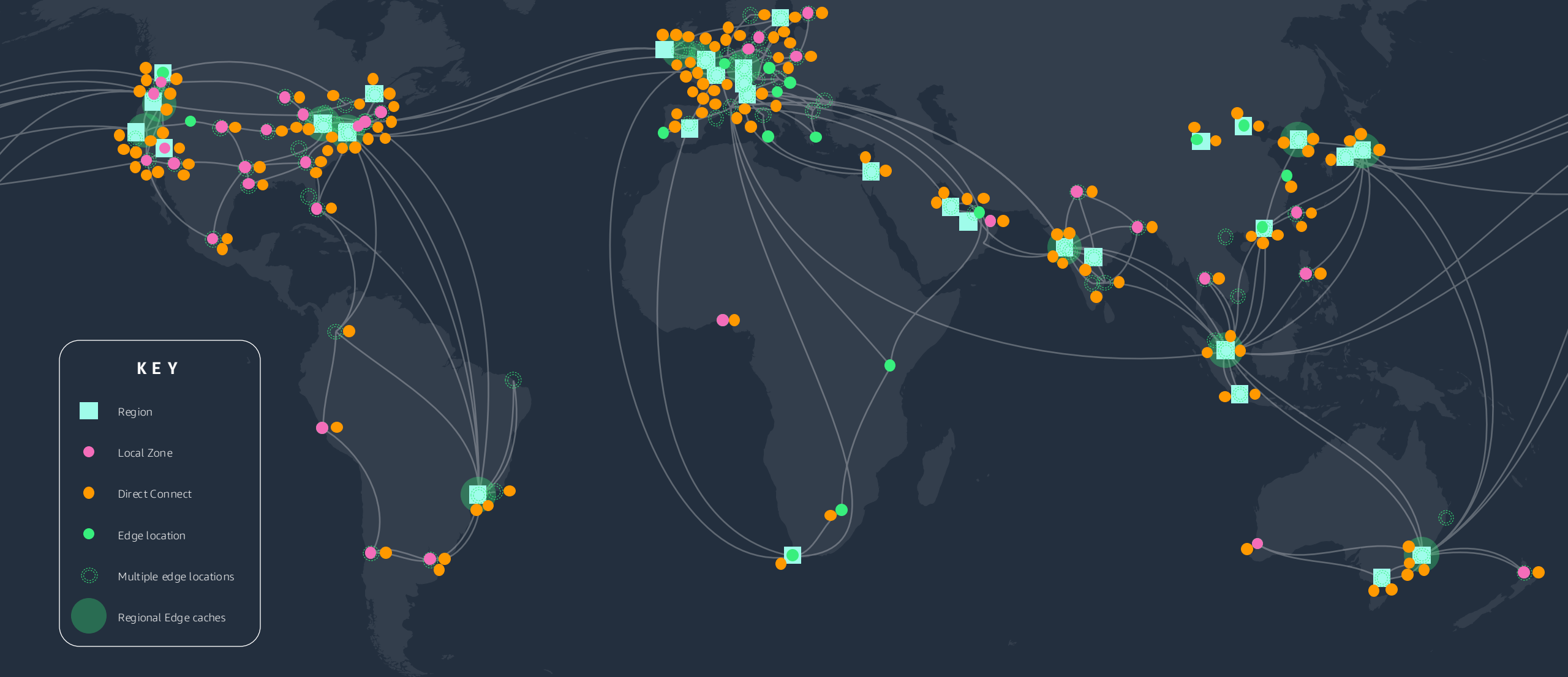
## **DISTANCE**

Physically separated by a meaningful distance – all within 60 miles (100km) of each other

## **INTERCONNECTION**

Datacenters connected via fully redundant and isolated metro fiber

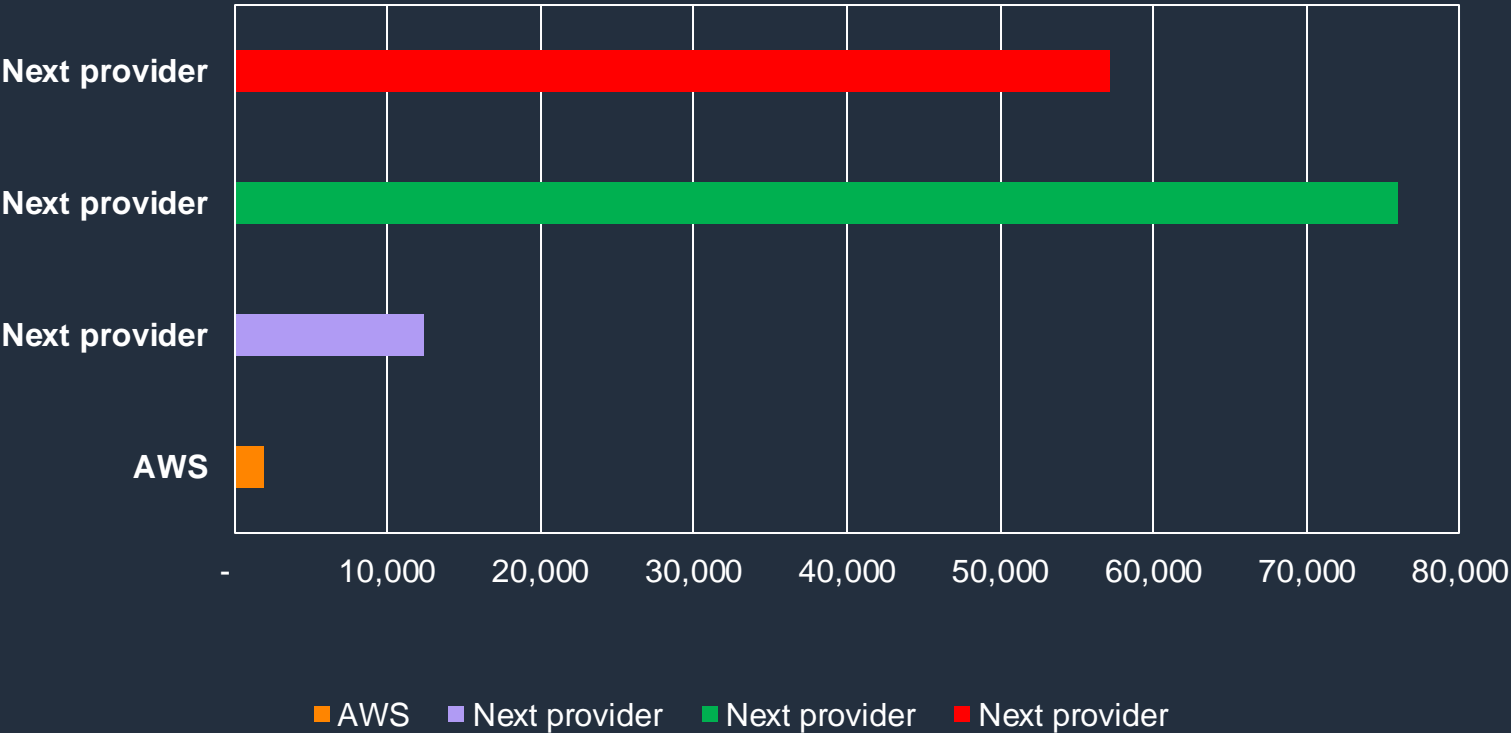
# AWS Global Infrastructure



# AWS Cloud Infrastructure Designed to Scale with Highest Availability

Total Incident Hours (Public) by Provider in 2022-2024

Incident hours published = Incident hours published \* Regions Impacted \* Services Impacted



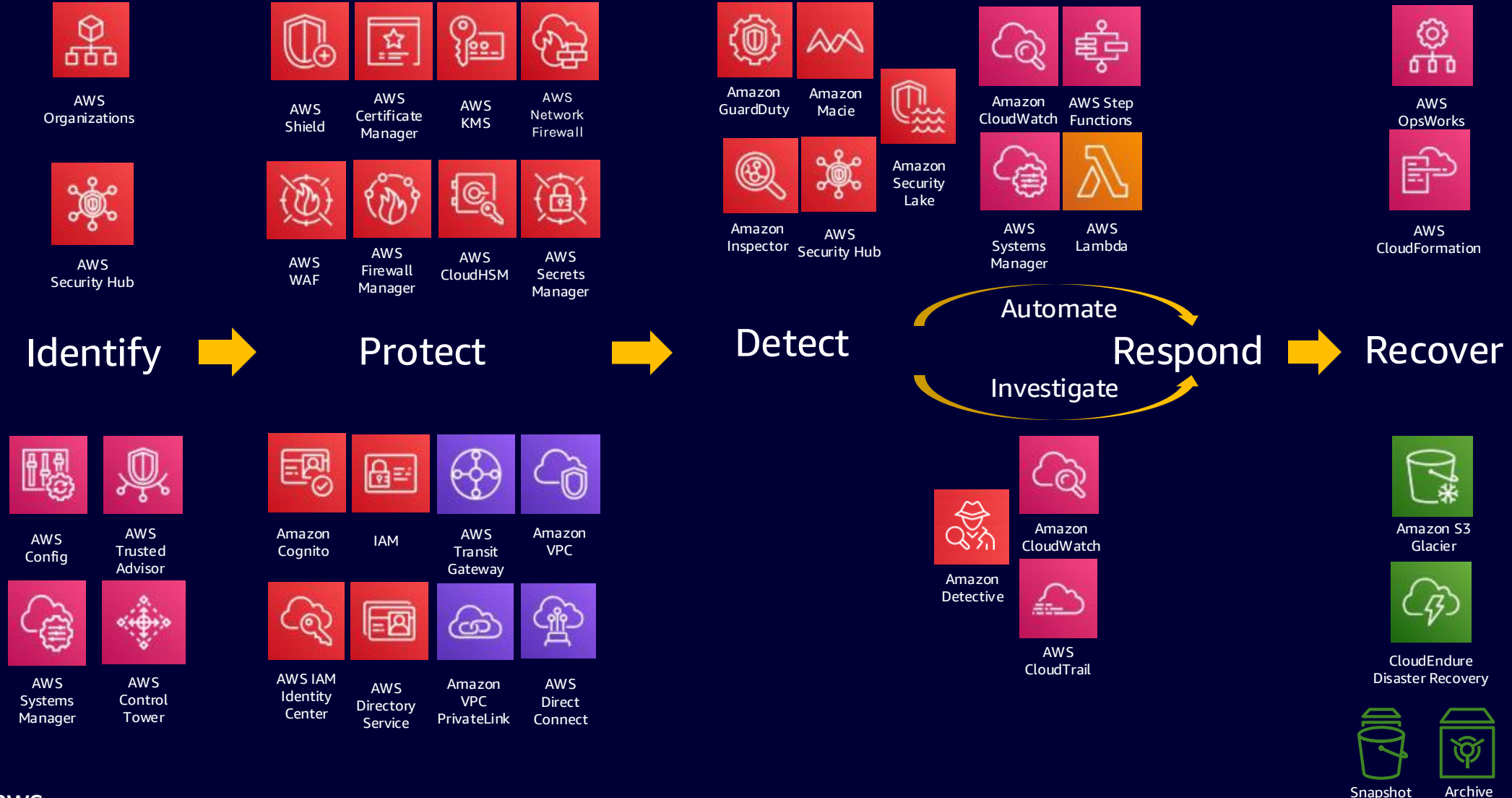
\* Sources: Public Status Pages for Cloud Providers. Incidents Types include = Incidents, Degradation, Disruption, and Outages of Services



# Inherit global security and compliance controls



# Aligning to the NIST Cybersecurity Framework

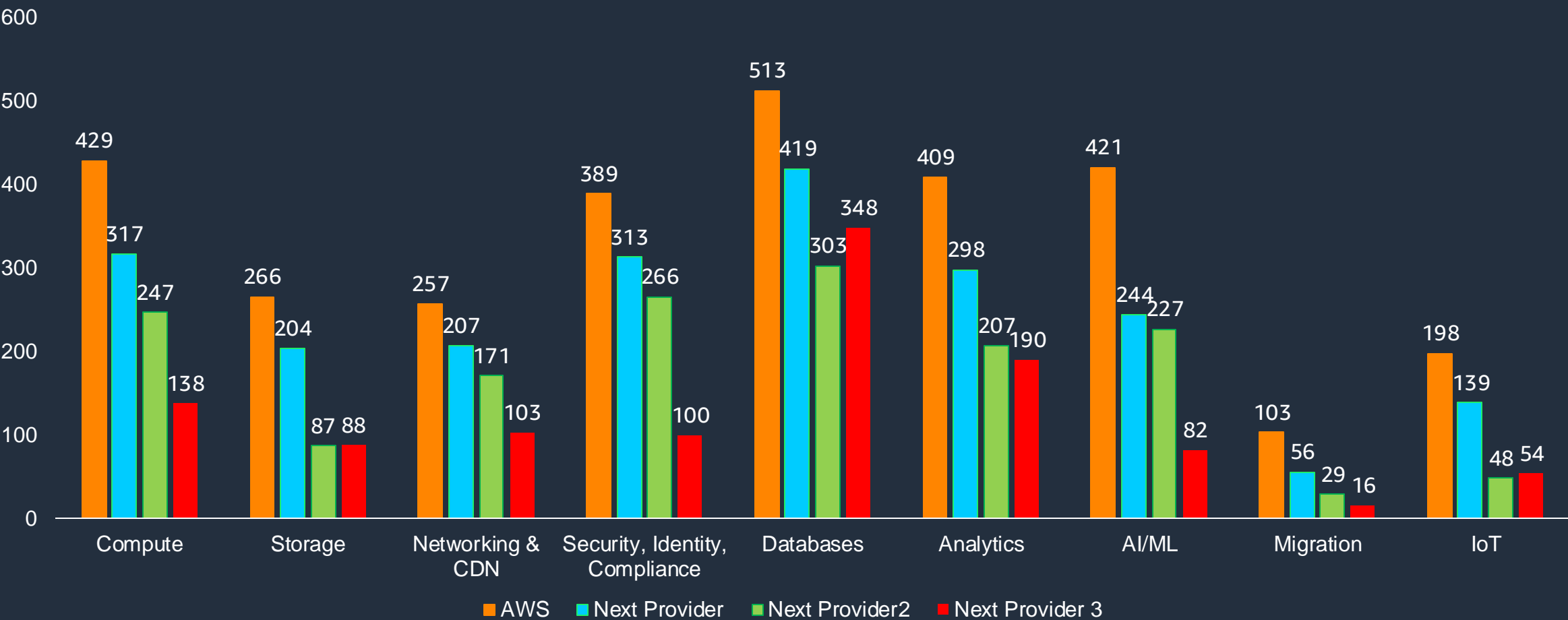




# Breadth and Depth of Cloud Services

Source: AWS Functionality Matrix (as of Dec 1<sup>st</sup>, 2024)

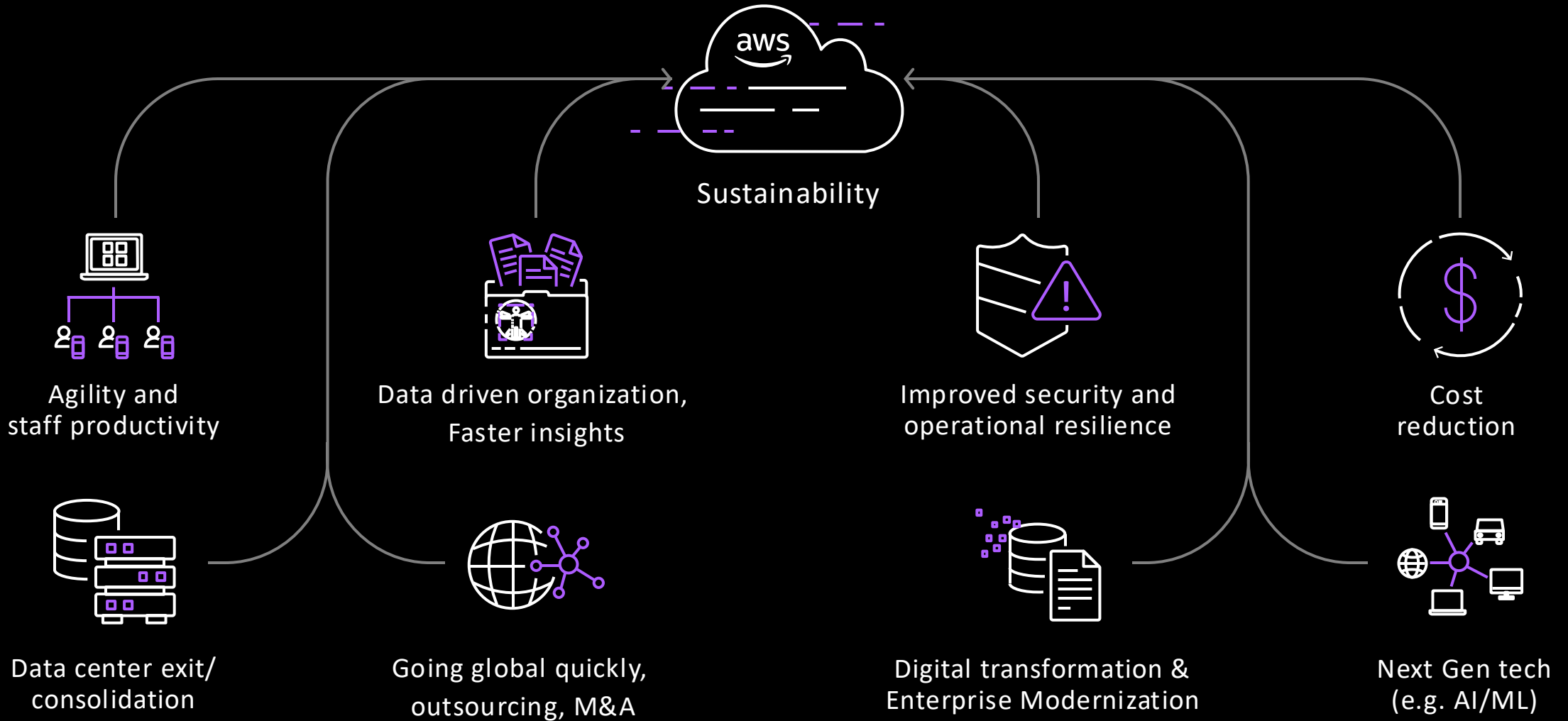
Number of Total Cloud Features by Cloud Provider



# Migration and Modernization



# Drivers for cloud migration & modernization

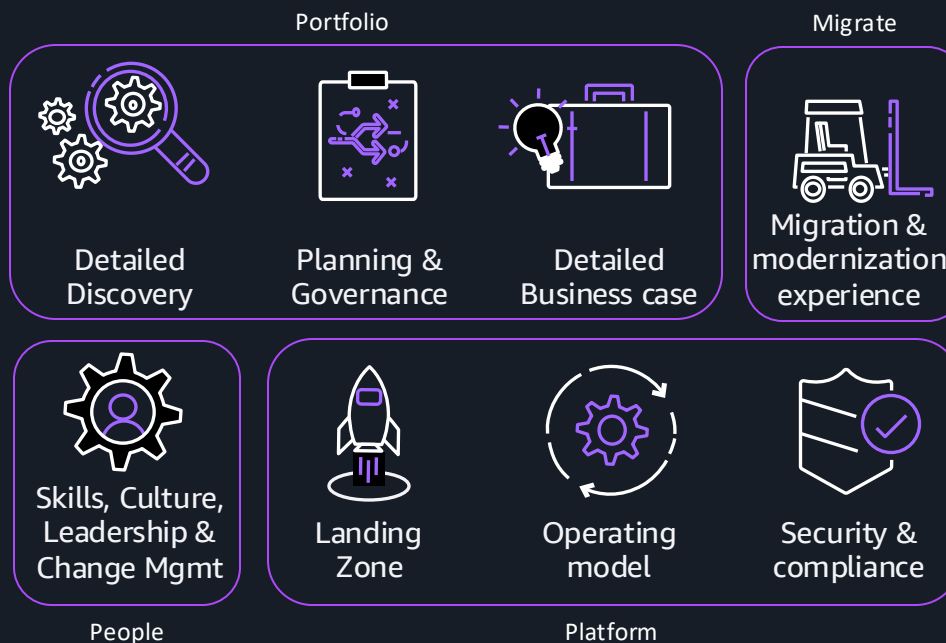


# Migration three-step approach

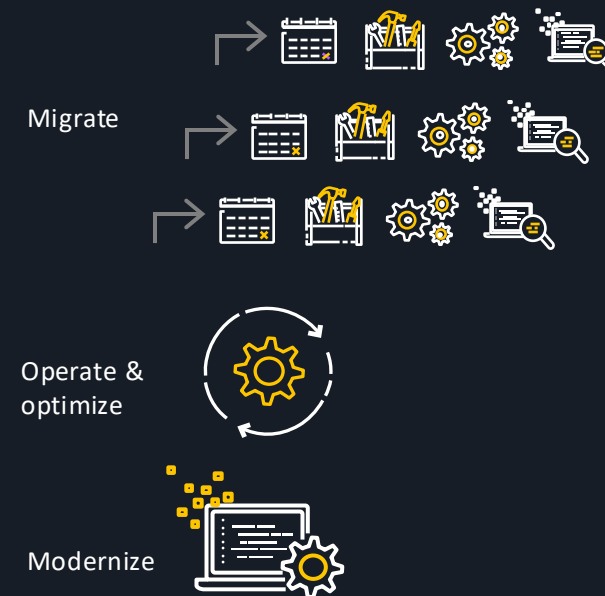
## Assess



## Mobilize



## Migrate & Modernize



AWS Countdown Premium provides proactive, context-aware guidance

Create a case for change

Build readiness through experiences

Accelerate transformation at scale

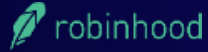


# Industry leaders migrate to AWS

Nationwide



airbnb



Siemens

HALLIBURTON

Disney

NOVARTIS

HOYA



DOW JONES

Newsweek

Nintendo

Expedia



bp

FOX

Singapore Airlines



MISAWA

HEARST

Kellogg's



News Corp



bankinter.

vodafone

Commonwealth Bank

NET docomo



Netflix

htc

LAMBORGHINI



TATA MOTORS

JPX

The New York Times

NIPPON EXPRESS

Intuit

Pfizer



NOKIA

Schneider Electric



IMS Health



NASDAQ OMX

NIPPON TV

TOSHIBA

TCL

EA



HBO



Turner



mlbam

CapitalOne

SHARP



Johnson & Johnson

Merck

Nordstrom



The Coca-Cola Company



talanx

BMW

havenpower

Conde Nast



Time Inc.

ThermoFisher SCIENTIFIC



RYANAIR

KOREAN AIR

Hilton

Shell

Alcatel-Lucent



Discovery

LIONSGATE

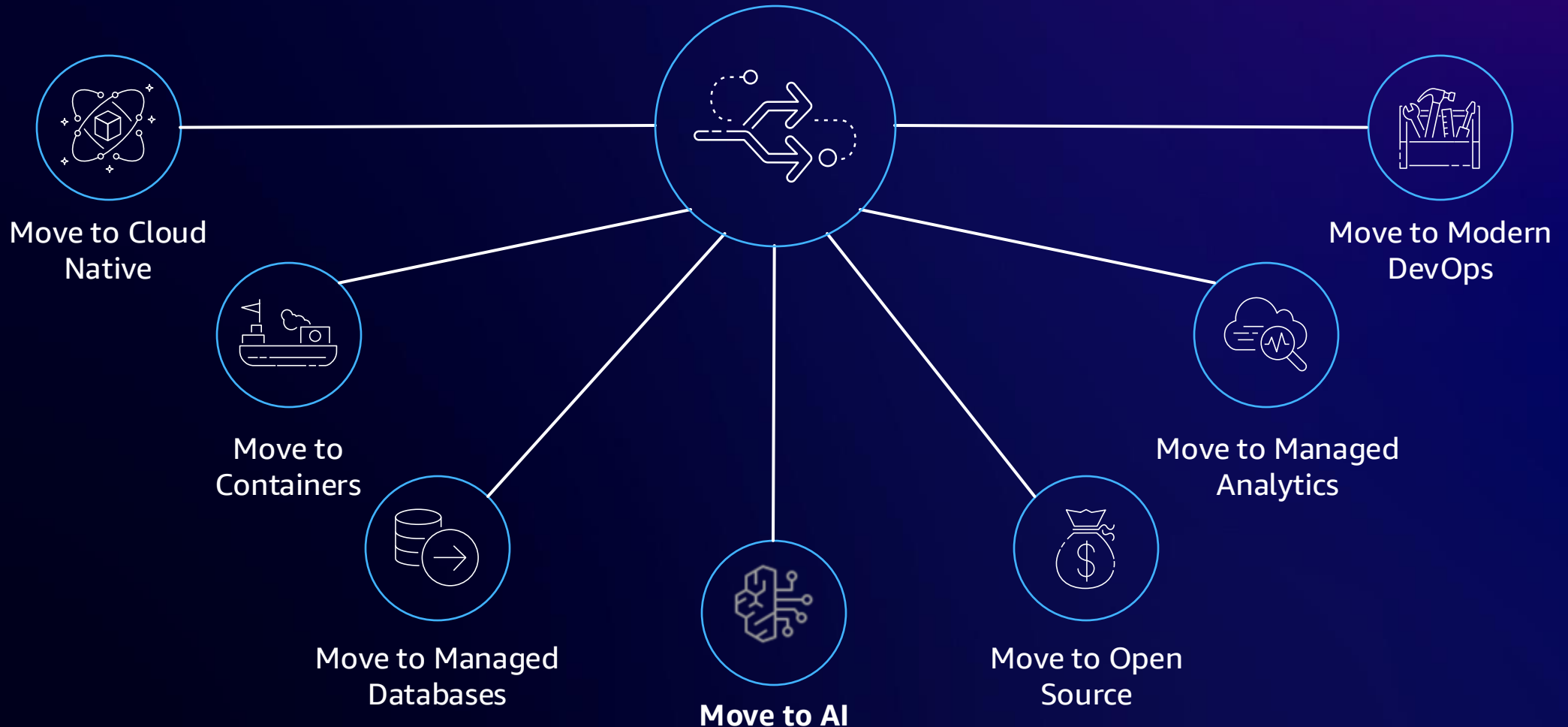
The Washington Post



© 2023, Amazon Web Services, Inc. or its affiliates. All rights reserved.

# Streamline with Modernization Pathways

Modernization pathways provide a proven and structured approach to modernization



[Customer Stories](#) / Hi Tech, Electronics & Semiconductor / Taiwan

2024



# VIVOTEK Accelerates Launch of VORTEX, Its Cloud Surveillance Platform, by 12 Months with AWS IoT Core

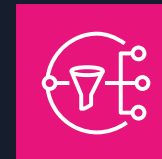
VIVOTEK launches its next-generation video-surveillance-as-a-service (VSaaS) solution, VORTEX, on AWS IoT Core—saving time and R&D resources to focus on innovation and scalability.

“More than 80 percent of our resources can go towards driving innovation because managing our infrastructure on AWS is so simple.”

ShengFu Cheng  
Vice President of the Strategy Business Division at VIVOTEK



AWS IoT Core



Amazon Simple Notification Service (Amazon SNS)



AWS WAF



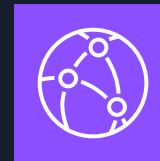


# Optoma Facilitates Virtual Collaboration with Hybrid Learning Platform on AWS

2022

"Using AWS as a platform as a service has helped us provide a more reliable, stable, and secure service offering compared to managing these aspects on our own."

Tarcy Y.M. Tsuei  
Chief Digital Officer, Optoma



Amazon CloudFront



Amazon Simple Storage Service (Amazon S3)



Amazon ElastiCache





# Other Compute Scenarios



# HPC is all around us



Build designs faster  
with computational fluid  
dynamics (CFD) simulations



Fast-track drug  
discovery and structure-  
based drug design



Advance genomics insights  
using predictive, real-time, or  
retrospective data applications



Run geoscientific simulations  
and seismic processing  
and iterate models faster



Conduct grid-computing  
simulations and identify portfolio  
risks and hedging opportunities



Process complex workloads  
and analyze massive data  
pipelines to further research

新聞

# 聯發科首顆5G晶片的關鍵IT技術力大公開，靠混合雲架構調度千臺運算主機，讓5G晶片設計交付再早一步

一顆先進7奈米5G晶片，需要多少臺運算主機才夠用？聯發科近日透露，單是執行一個7奈米5G專案，IT人員就需要面對部署數千臺高效能運算主機的挑戰，有時，甚至得一周內增加破千臺，才能滿足複雜的設計運算需求。

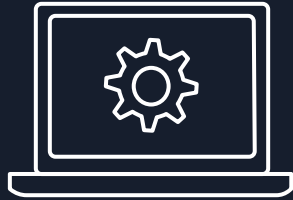
從這次AWS使用量來看，聯發科每次開啟千臺的高效能EC2運算實例，執行了超過1,200萬 core-hour 用於大量模擬驗證的運算時間，並累積高達8,000TB的資料量，還要橫跨臺灣總部與美國AWS雲端兩地來進行管理。「這樣的運算規模，對於任何企業的傳統IT基礎架構來說，都是極大挑戰」

聯發科技資訊工程本部基礎系統設計處經理 黃博揚

<https://www.ithome.com.tw/news/135289>



# Applications that need to remain on premises

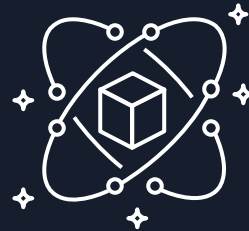


## Latency sensitive

Equipment and processes sensitive to compute latency

Interactive workloads such as AR/VR, design, and visualization

Complex workloads that span a variety of host and storage systems



## Local data processing

In hybrid workflows, transcoding, filtering, caching, and alerting applied at the edge

Bringing AWS compute to large datasets that can't be easily moved



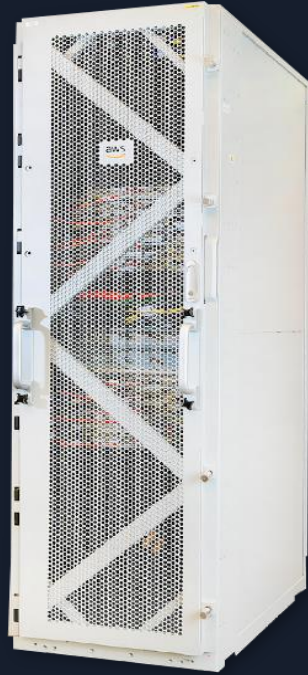
## Residency

Where regulations dictate that data and infrastructure reside in specific countries

Where contracts specify where applications are deployed

Where enterprises are not ready to move to AWS Regions for Infosec or other reasons

# AWS Outposts family



**Outposts rack (42U)**  
80 inches tall

---

Bring the same AWS infrastructure, AWS services, APIs, and tools to on-premises data centers or co-location facilities



**Outposts server (2U)**  
3½ inches tall



**Outposts server (1U)**  
1¾ inches tall

---

Run Outposts in locations with limited space or smaller capacity requirements

# Outposts as a Connected Factory Solution

aws SUMMIT  
TAIWAN



溫宗正 James Wen

資訊長, 緯穎科技  
CIO, Wiyynn

## Outposts, AWS Cloud in Wiyynn's MFG Server Room

AWS Outposts

Applications

Compute &  
Storage Resource

MFG Server Room



<https://www.facebook.com/amazonwebservices.tw/videos/271589325821145/>





A black and white portrait of Werner Vogels, CTO of Amazon.com. He is a middle-aged man with a beard and mustache, wearing a dark blazer over a dark t-shirt. He is looking directly at the camera with a slight smile. The background is a blurred outdoor scene with trees and a path.

**“Everything fails, all  
the time.”**

**Werner Vogels**

CTO, Amazon.com



*ed the Turing tes*

# 自然災害應變力全面升級，嘉義縣府採AWS雲端復原強化官網韌性

嘉義縣政府攜手哈瑪星科技，引入AWS的災難復原系統（Disaster Recovery），實現30分鐘系統恢復與強化資安防護。AWS按需付費模式助嘉義縣府省下高額本地端硬體成本，達成節能、減碳、韌性服務的目標

「AWS方案有效節省基礎設施開支，讓資源配置更具彈性，提升整體成本效益，讓嘉義縣政府的災難恢復效率大幅提升。」

嘉義縣綜合規劃處處長 陳皇成

<https://www.ithome.com.tw/pr/166147>





新聞

# 金融三業上雲大鬆綁來了！金管會正式公布相關修正辦法，兩周內上路

金管會今日宣布金融三業上雲鬆綁委外修正辦法，最快兩周內上路。

讚 438

分享

文/ 李昀璇 | 2023-08-04 發表

[金管會](#) [銀行局](#) [證期局](#) [保險局](#) [檢查局](#) [English](#)

[:: 回首頁](#) [網站導覽](#) [English](#) [常見問答](#) [聯絡我們](#) [雙語詞彙](#)

 **金融監督管理委員會**  
Financial Supervisory Commission R.O.C. (Taiwan)

熱門關鍵字：[金融科技](#) | [IFRSs](#) | [洗錢防制](#)

[::](#) [機關介紹](#) [公告資訊](#) [法規資訊](#) [統計及出版品](#) [消費者園地](#) [便民服務](#) [金融防疫纾困專區](#) [政府資訊公開](#) [金融競爭力專區](#) [相關單位連結](#)

[公告資訊](#)

- 重大政策
- 重要公告
- 新聞稿
- 即時新聞澄清
- 首長行程
- 活動記事
- 裁罰案件

[::](#) [回首頁](#) [公告資訊](#) [新聞稿](#)

## 新聞稿

### 金管會修正發布「金融機構作業委託他人處理內部作業制度及程序辦法」

自 2023-08-04

近年金融機構積極導入雲端運算、雲端儲存等新興技術，以提升數位轉型及金融服務的敏捷彈性，運用範圍逐漸多樣化。為利金融機構對委外作業建構完整風險管理框架，併檢討相關申請程序及申報作業，金融監督管理委員會(下稱金管會)參考國際作法及業者意見，採用風險基礎方法(Risk-Based Approach, RBA)修正「金融機構作業委託他人處理內部作業制度及程序辦法」(下稱委外辦法，如附件1)。

[f](#) [LINE](#) [Twitter](#) [YouTube](#) [Facebook](#) [回上頁](#)

2024/09/12 | 國泰金控

## 金融業首家 國泰金控獲金管會核准啟動數據上雲

搭建雲端湖倉平台 強化集團風險聯防、提升金融科技營運與數據管理



「面對AI時代來臨，資料型態與大數據應用多樣化發展下，我們需要更快速有效的方式應對數據分析的需求，強化即時處理數據的效率，進行多種類型的數據整合，同時確保金融應用場景接軌國際趨勢，進而體現數據資產的價值。」

國泰金控資深副總經理 姚旭杰

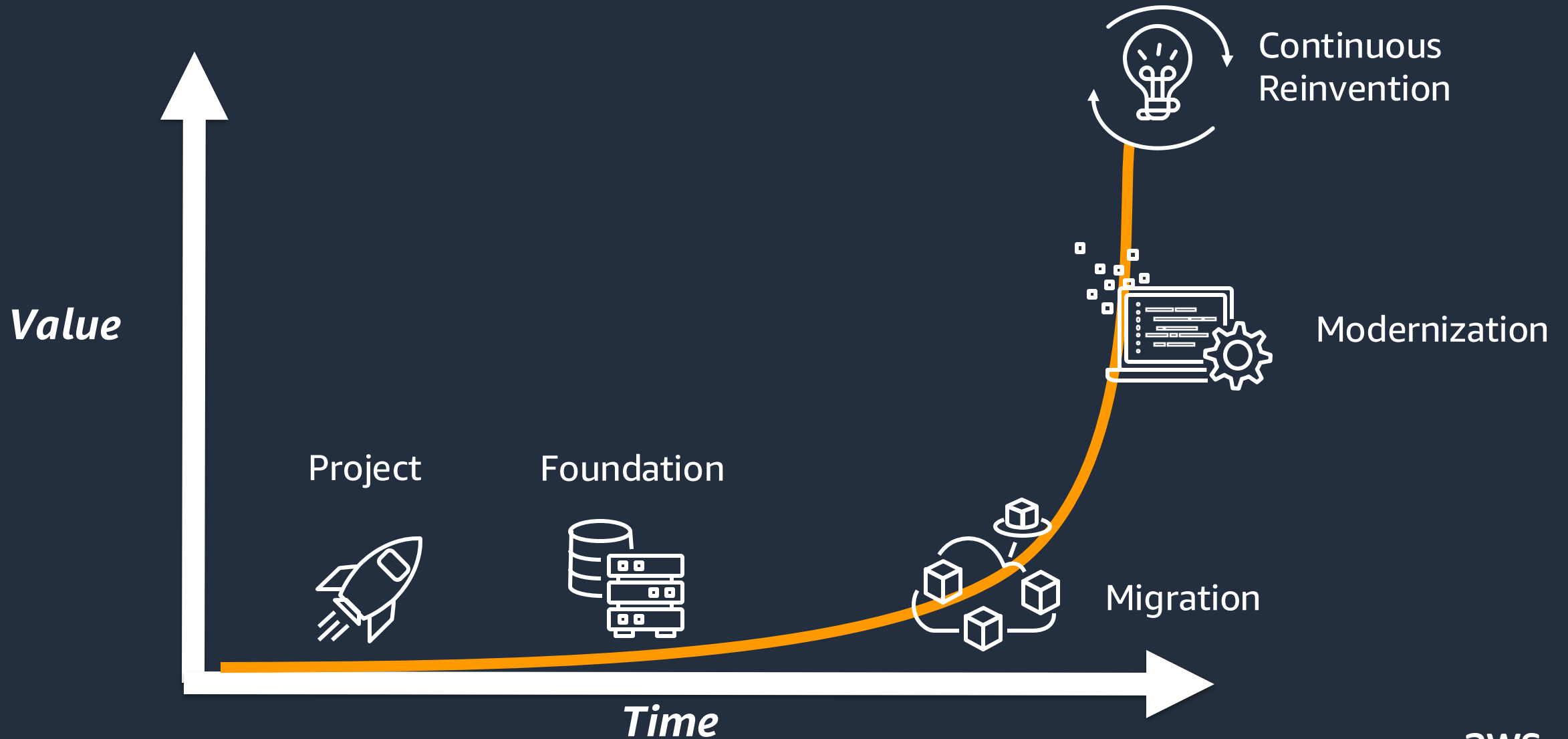
[https://www.cathayholdings.com/holdings/lastest\\_news/news\\_archive/newsarticle?newsID=ygKWLx-KBkGZlTCmftkQWg](https://www.cathayholdings.com/holdings/lastest_news/news_archive/newsarticle?newsID=ygKWLx-KBkGZlTCmftkQWg)



# Next Step



# Getting started with your **cloud journey**



# Thank you!

**Michael Lin**

[linmicht@amazon.com](mailto:linmicht@amazon.com)

