



APEX FONG YI

TECHNOLOGY CO., LTD.

峰儀科技股份有限公司

利用高速儲存架構 打造現代化資料中心結構

MAR 2021 | SENIOR TECHNICAL MANAGER | **WILL HUANG** 黃禹平

打造現代化資料中心結構

兩大認知 Concept





關鍵在於時間



重點在於資料

打造現代化資料中心結構

三大觀點 — Brand Appeal 品牌



NetApp 近兩年亮眼成績

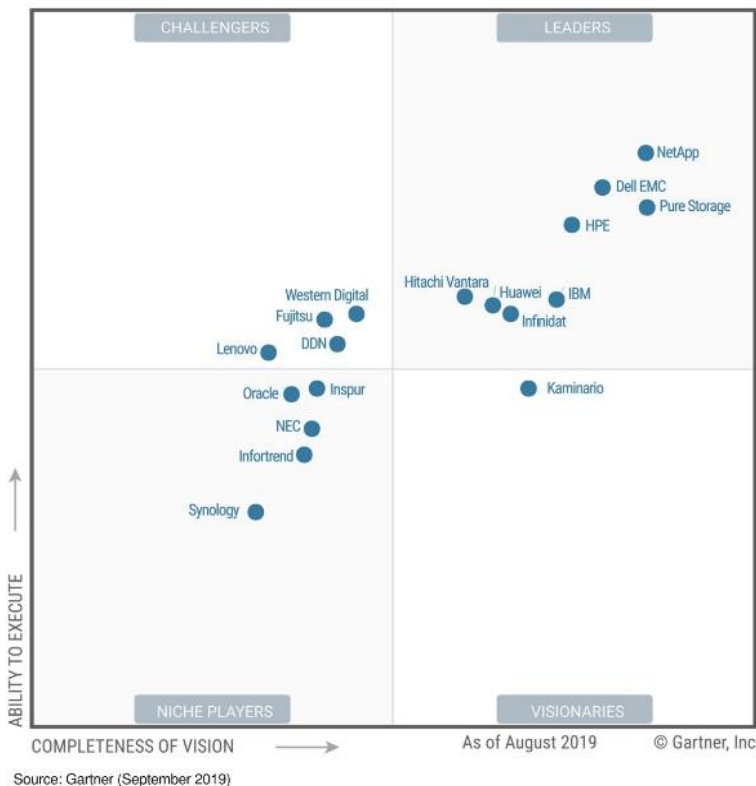
Gartner / IDC Reports

Figure 1. Magic Quadrant for General-Purpose Disk Arrays



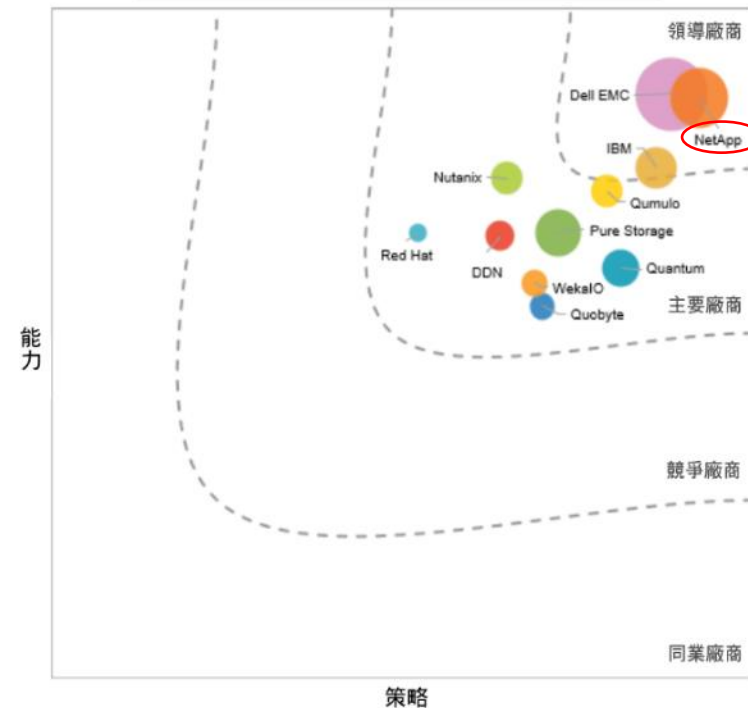
Magic Quadrant for
General-Purpose Disk
Arrays – Gartner 2018

Figure 1. Magic Quadrant for Primary Storage



A Leader in Primary
Storage – Gartner 2019

IDC MarketScape 全球橫向擴充檔案型儲存設備

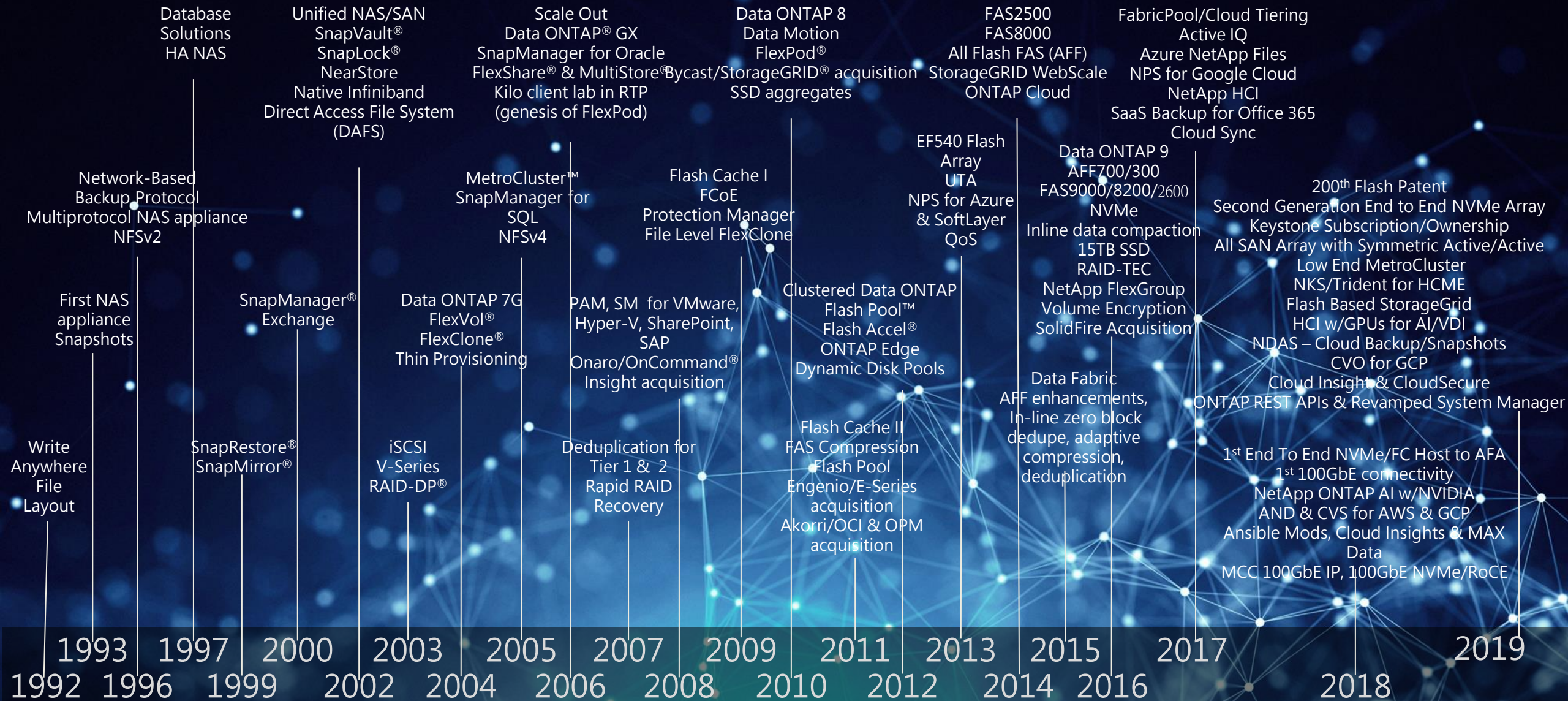


資料來源：2019 年 IDC

MarketScape:
Worldwide Scale-out File-
Based Storage - IDC2019

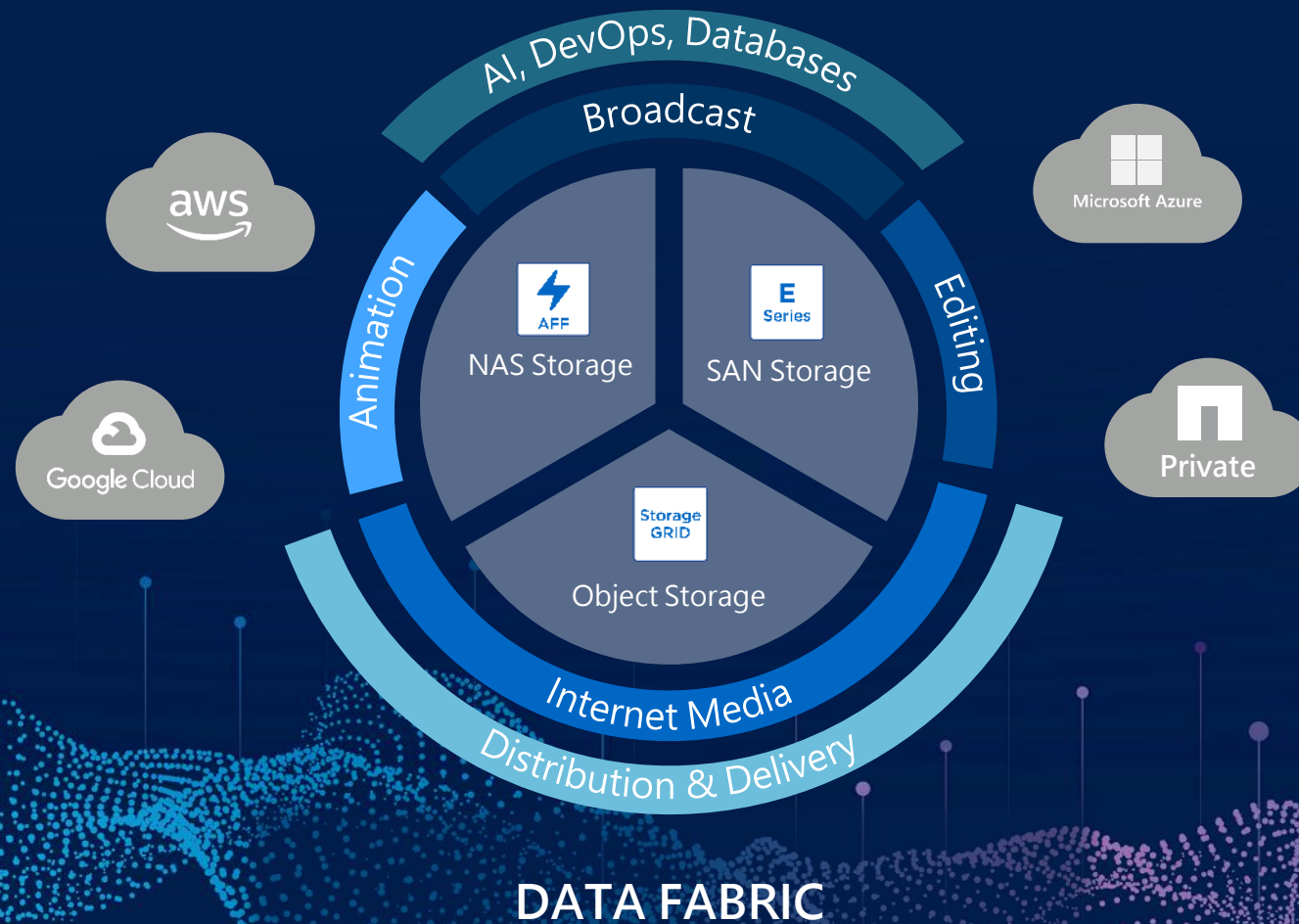


27年專注於客戶需求的創新



Build Your Data Fabric For Media

將資料在對的時間交付給對的人



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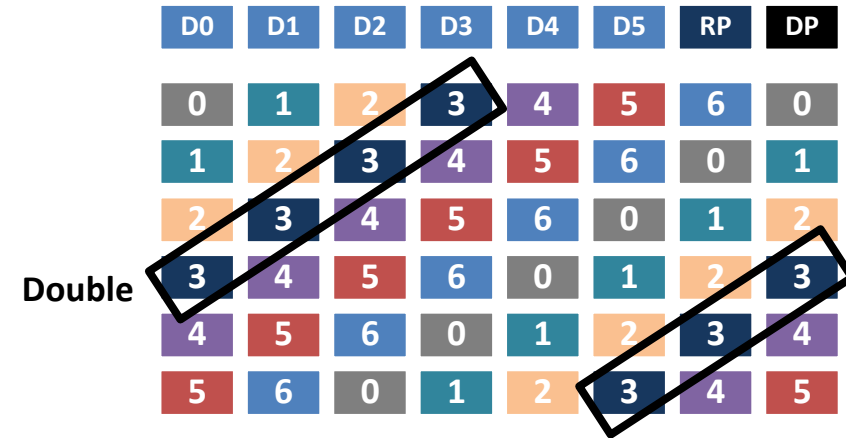
三大觀點二 Architecture 架構



RAID

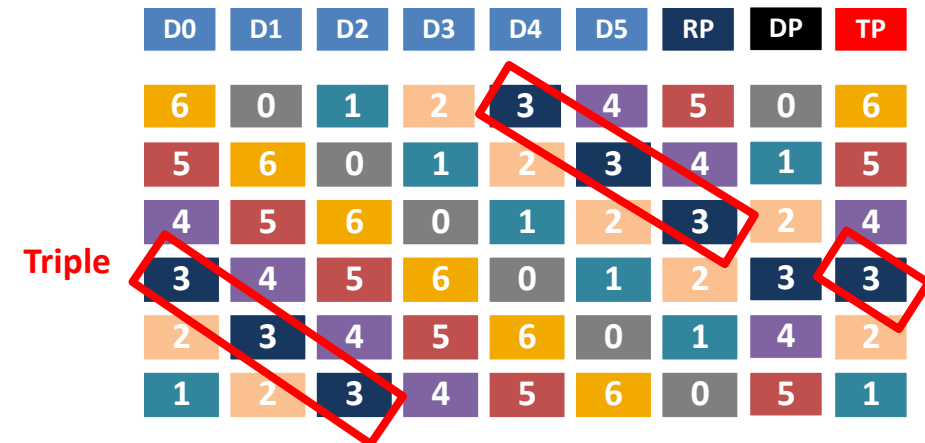
- RAID DP (Dual Parity)

- Utilizes block-level striping with two dedicated parity drives per RAID group
- Protects against: 2 concurrent failed drives, or a single drive failure and an uncorrectable media error



- RAID-TEC (Triple Parity with Erasure Coding)

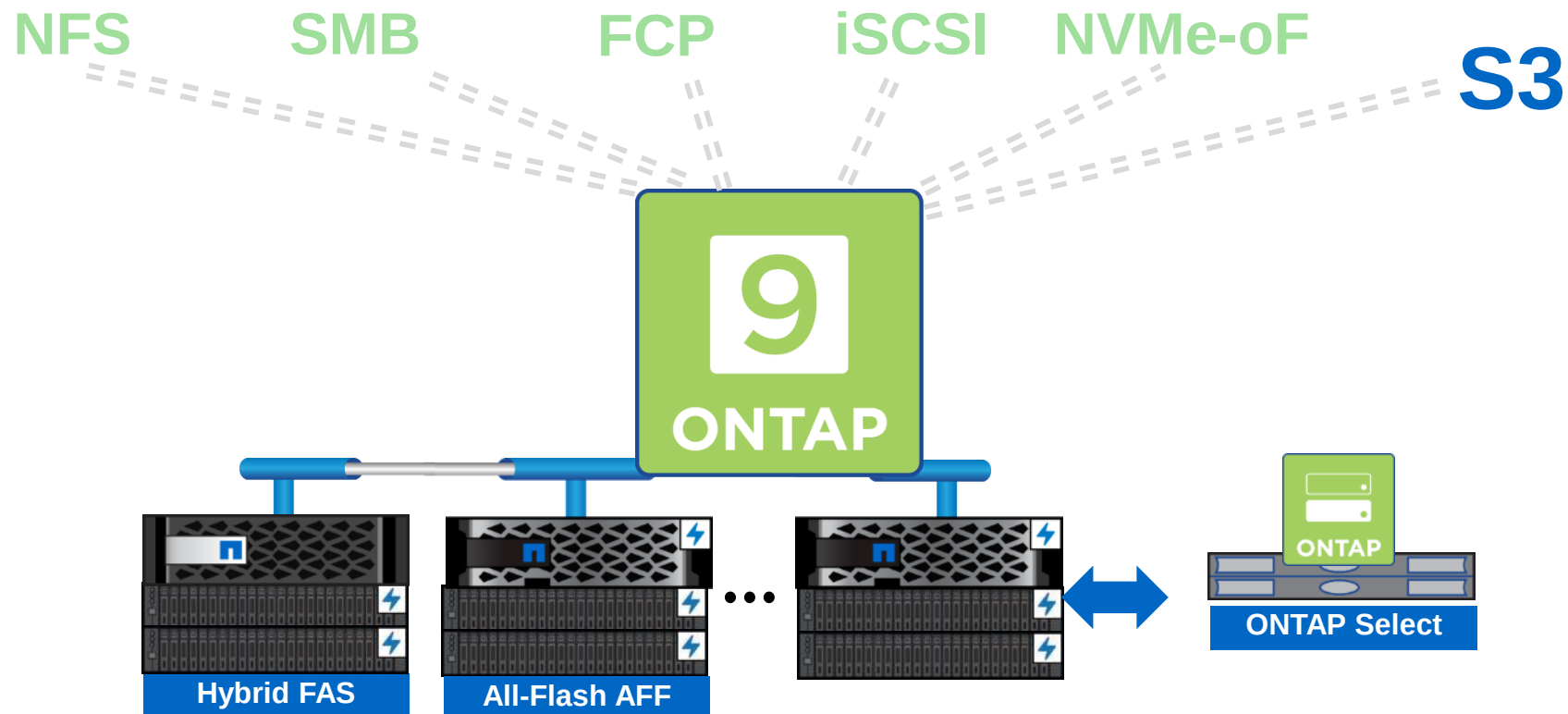
- Utilizes block-level striping with three dedicated parity drives per RAID group
- Allows for larger RAID group sizes
- Protects against: 3 concurrent failed drives, 2 failed drives and an uncorrectable media error, or a single drive failure and uncorrectable media errors on 2 drives



Unified

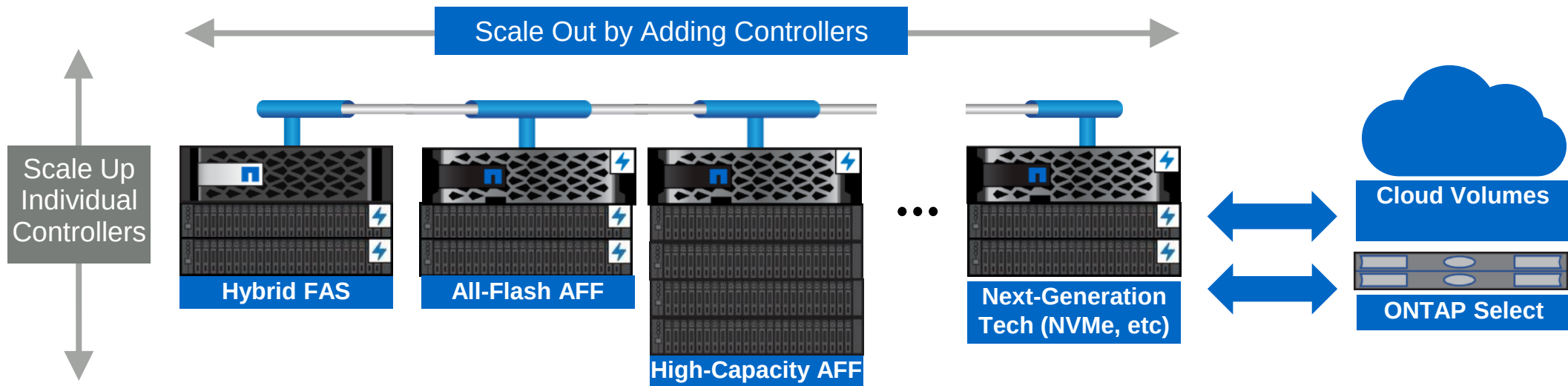


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Scale-up, Scale-out

Scale-up or scale-out capacity and performance – no disruption, no silos

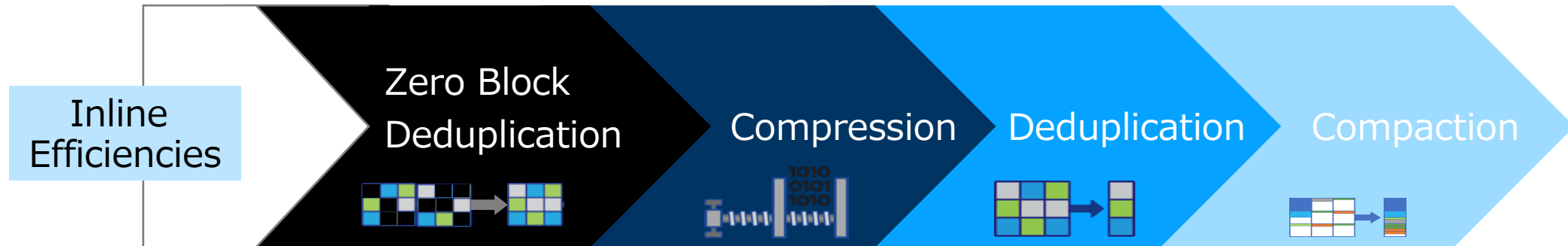


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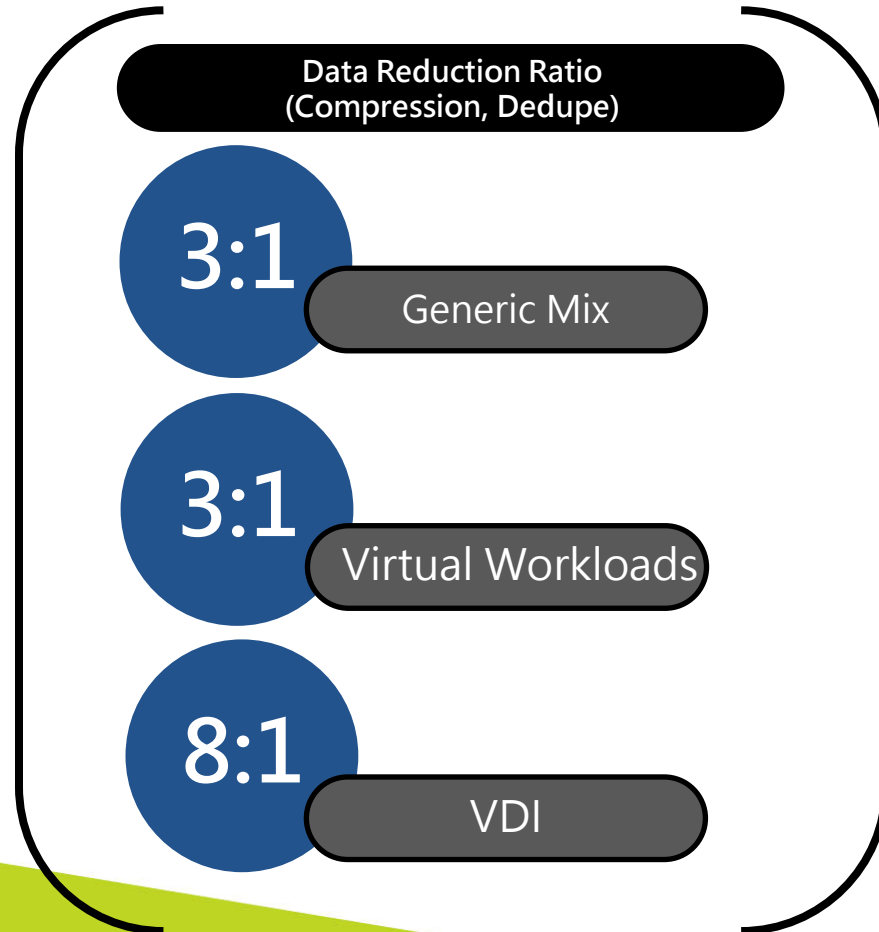
三大觀點三 Features 功能



Storage Efficiency



Storage Efficiency

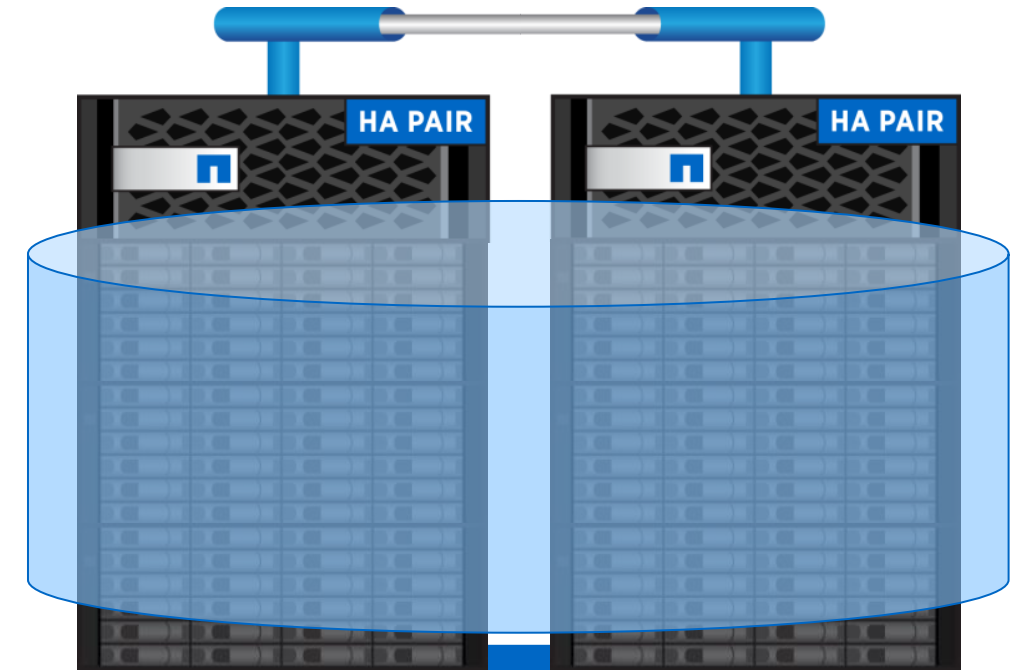
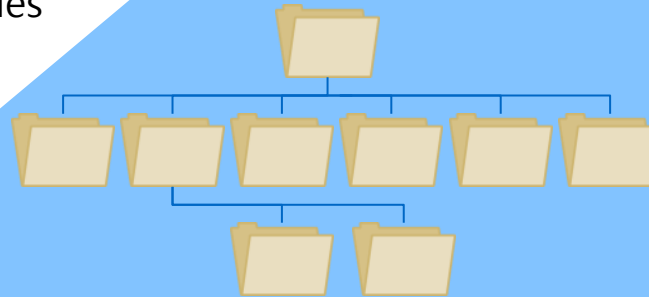


Workload	Ratio
Generic Mix	3:1
Virtual Servers (OS & Application)	3:1
Virtual Desktop Infrastructure (VDI)	8:1
Unstructured NAS (homedirs, group shares)	1.5:1
Relational databases (with no compression)	2.5:1
NoSQL Databases (with no compression)	1.5:1
Pre-compressed/encrypted data	1:1



FlexGroup

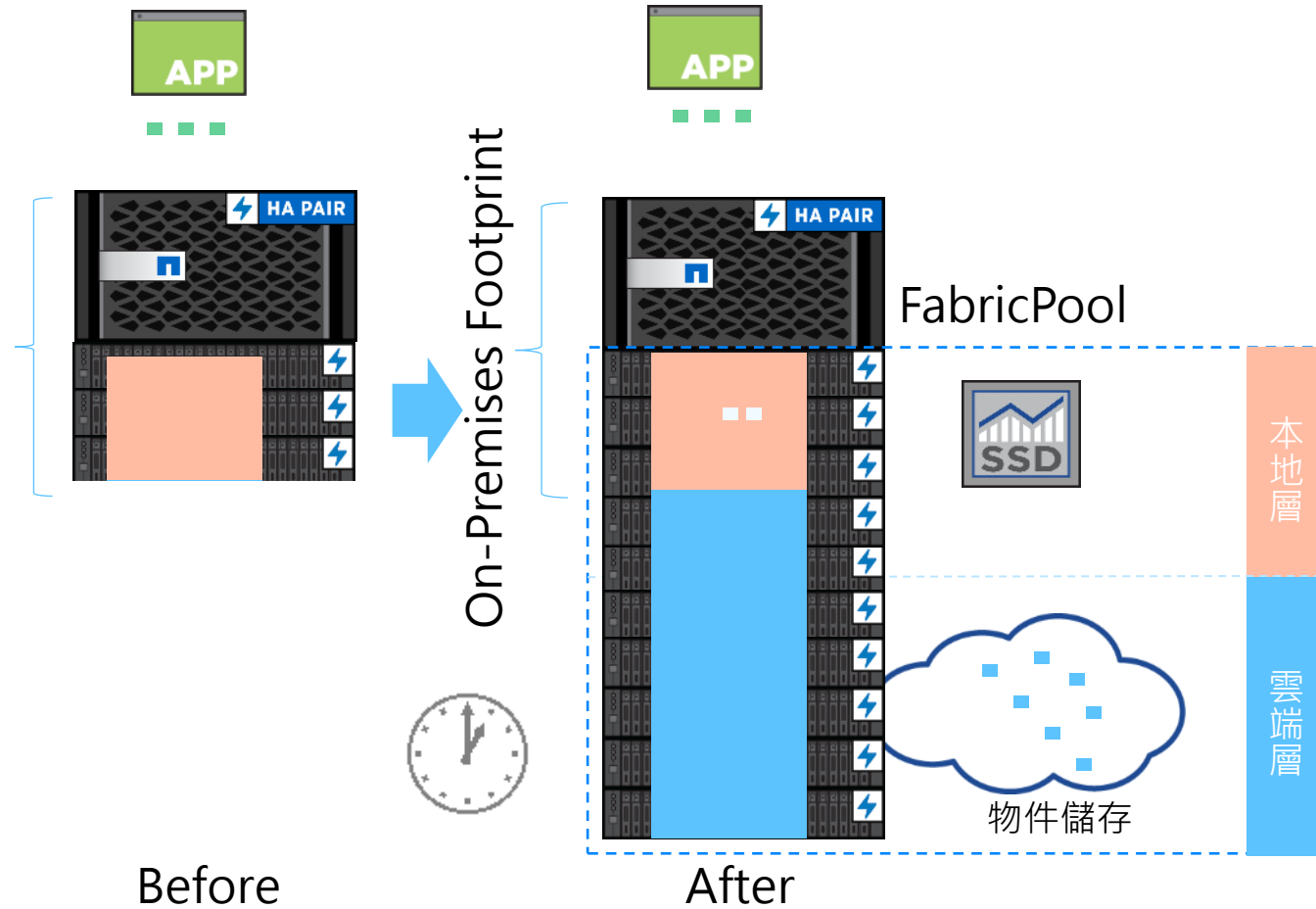
- Nondisruptive scale-up and scale-out
- Easy to deploy and manage
- High performance
- Massive capacity
 - Capacity in the petabytes
 - Hundreds of billions of files



Do more with less.



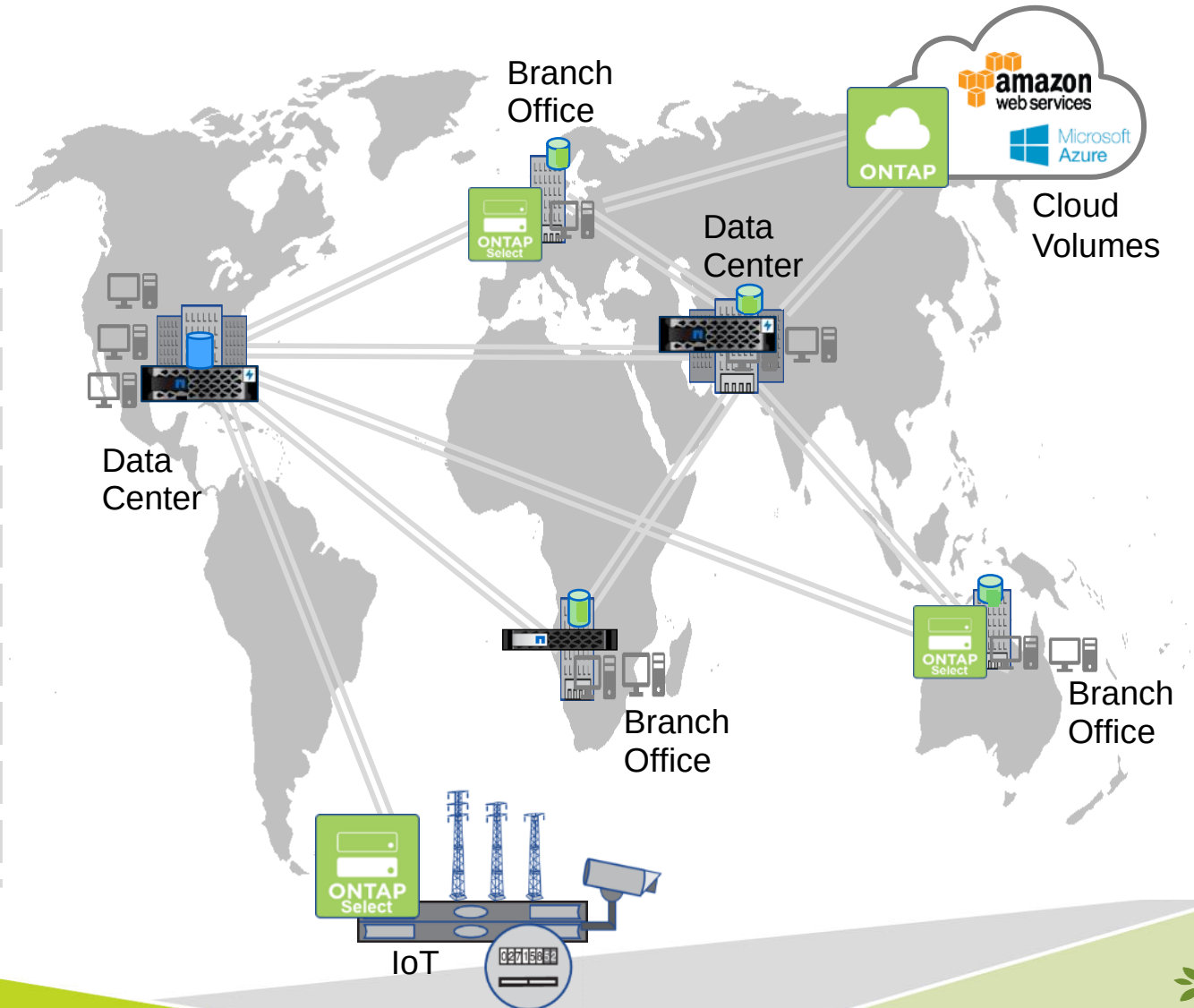
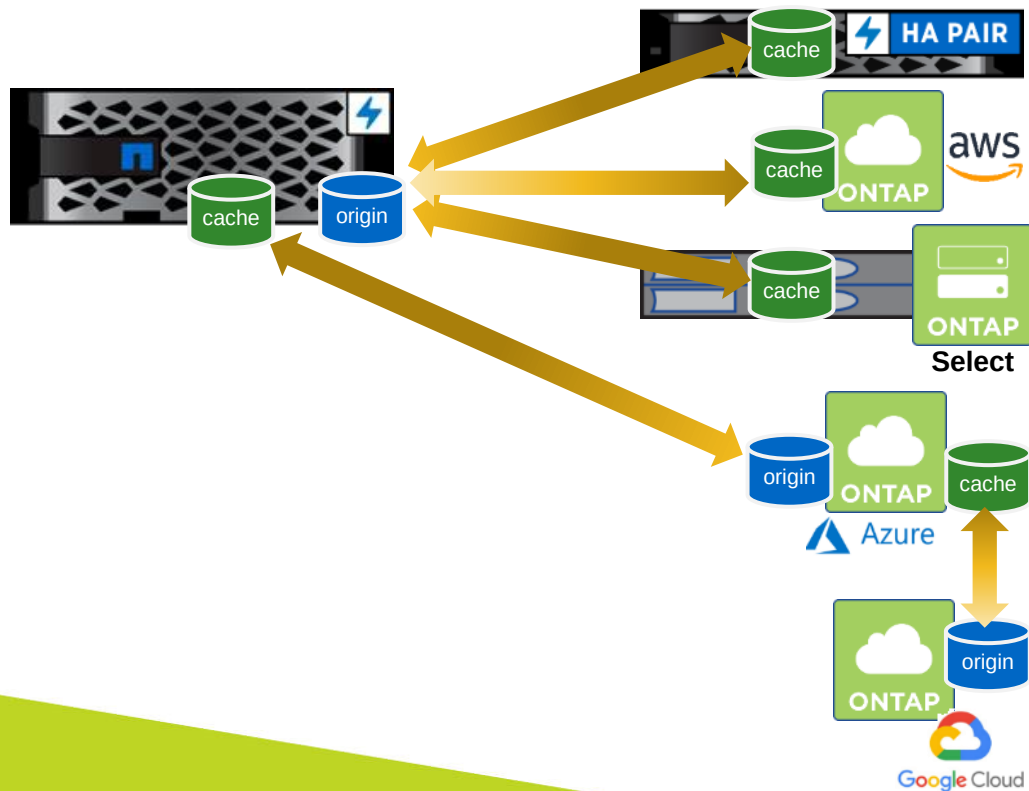
FabricPool



FlexCache



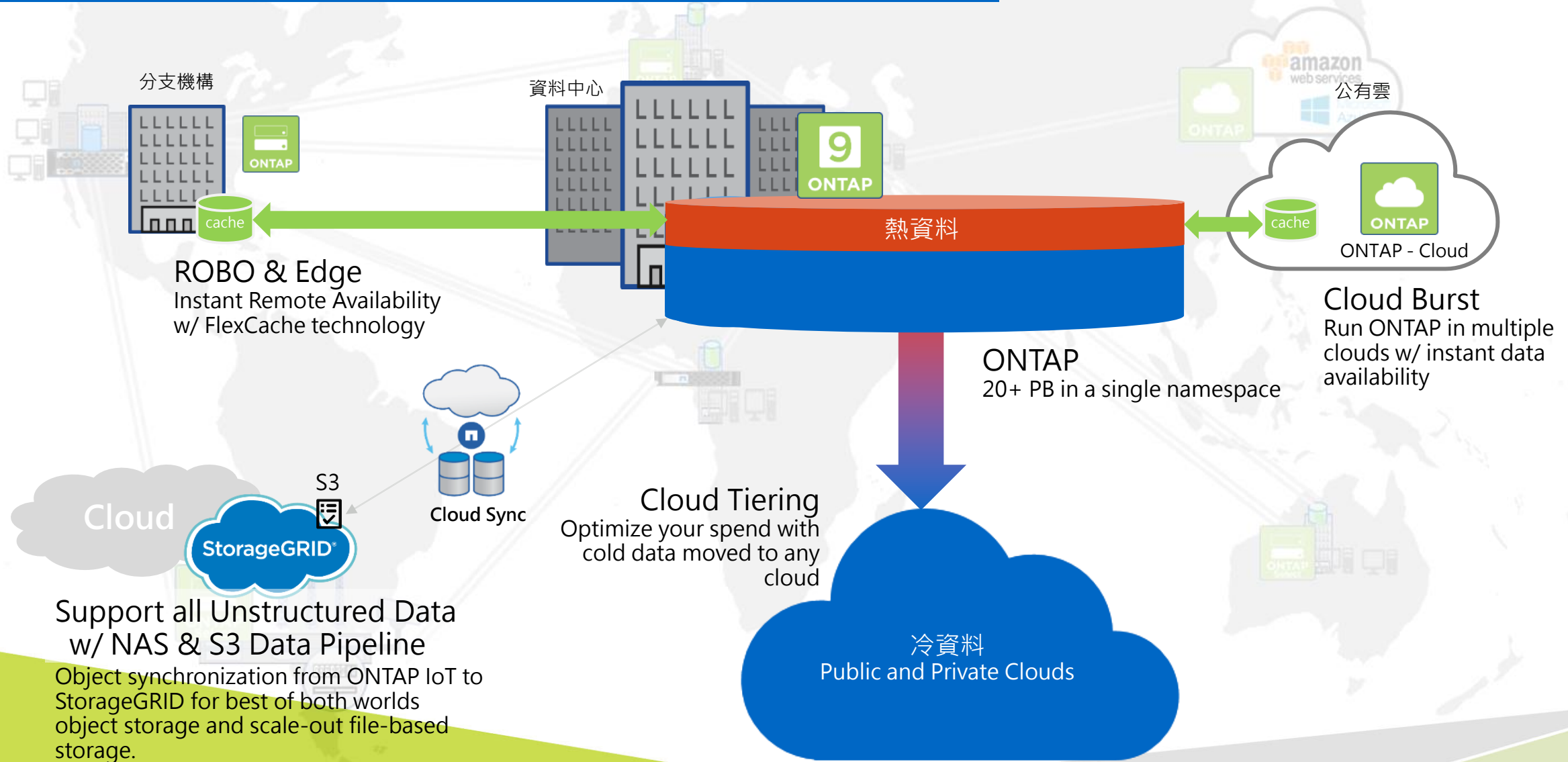
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Unstructured Data Management Vision



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THANK YOU

2021 | SENIOR TECHNICAL MANAGER | WILL HUANG

The bottom left corner features large, overlapping geometric shapes in shades of yellow and grey, creating a modern, abstract design.