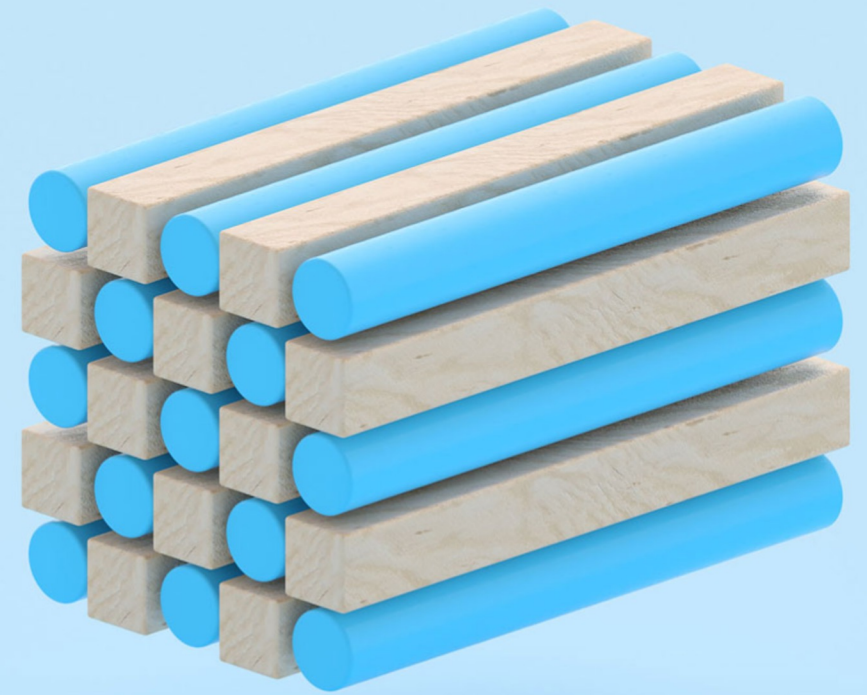


全閃存部署實戰分享

Lawrence Hsu



地端完整的解決方案

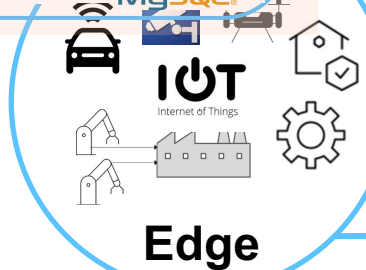
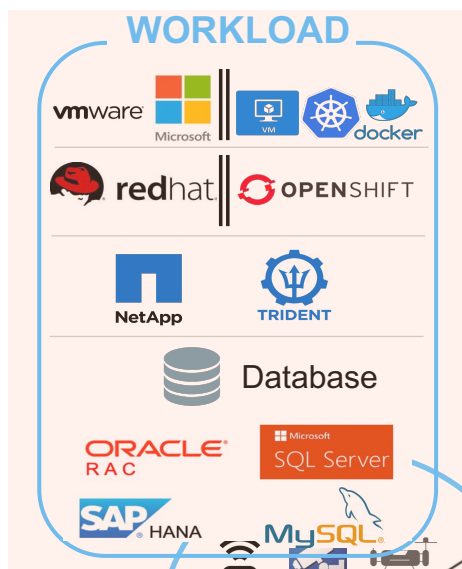
✓ 資料保存、應用、運算、災備

雲端彈性的多元架構

✓ 資料挪移、分析、備份、部署

專注客戶的工作負載

✓ 虛擬化、自動化、開發、資料庫



Real-time Data Movement
On-premises Data Movement



Cloud Insights



PROD

**HDD
FLASH
NVMe**

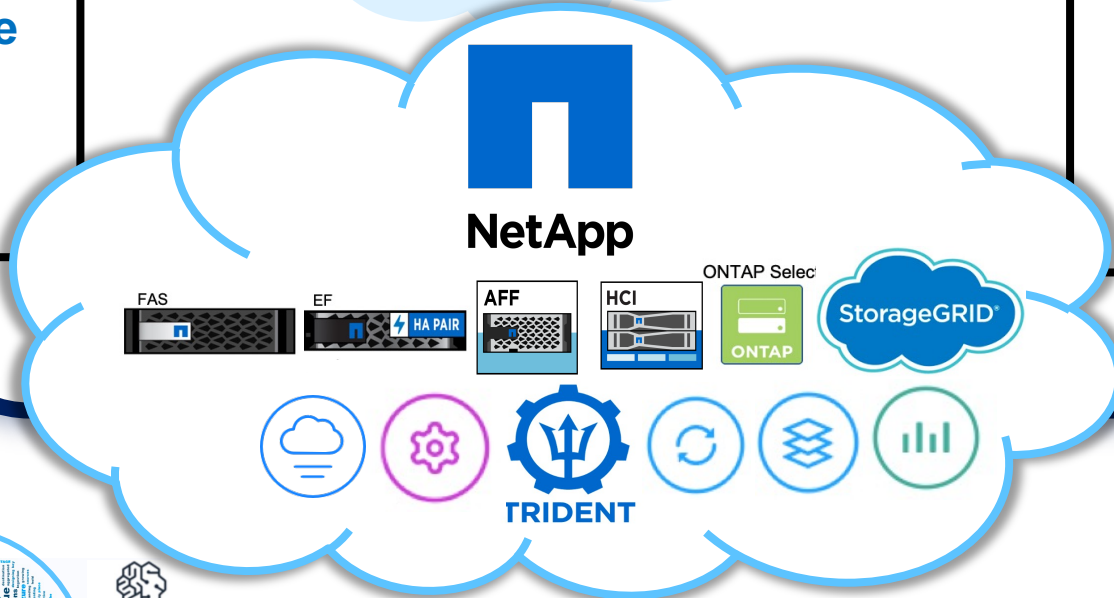
AI

Cloud Manager – Hybrid Enterprise Storage Management



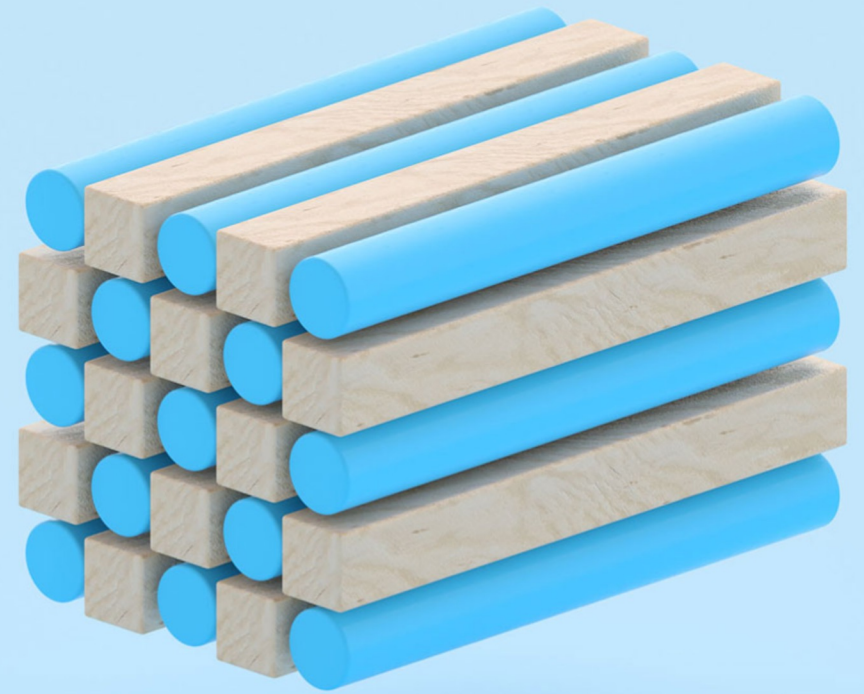
DR

**HDD
FLASH
NVMe
BYOHW**



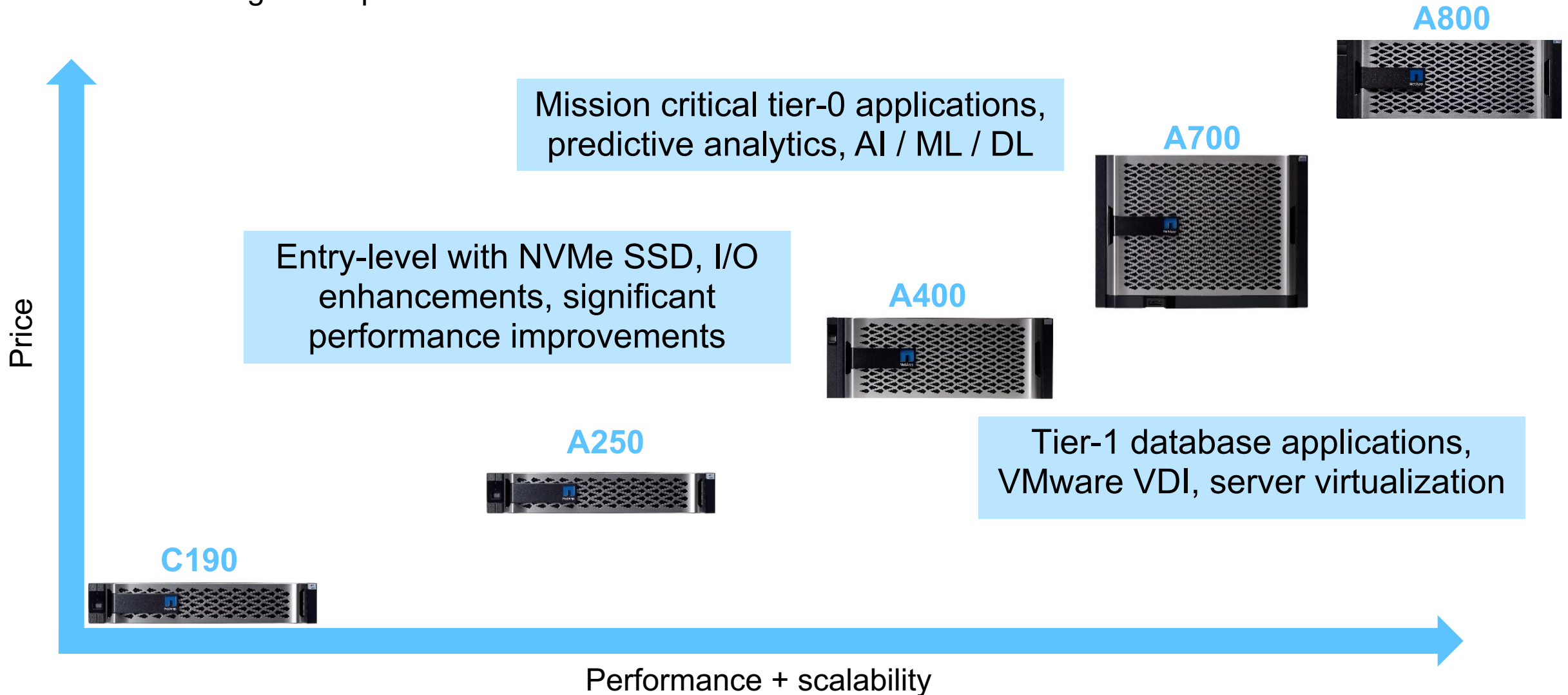
Machine Learning
Analytics

ONTAP AFF Portfolio



AFF A-Series Portfolio: Smart, Powerful, and Trusted

From MSB to large enterprises



客戶開心就是我們最大的成就

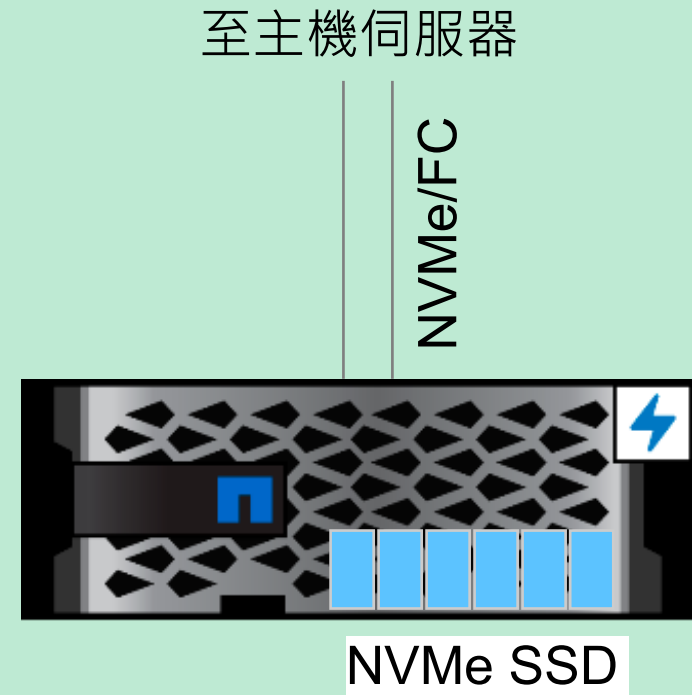


- NVME 架構大幅縮短 I/O 處理延遲時間
- NVME 架構大幅提升 IOPS

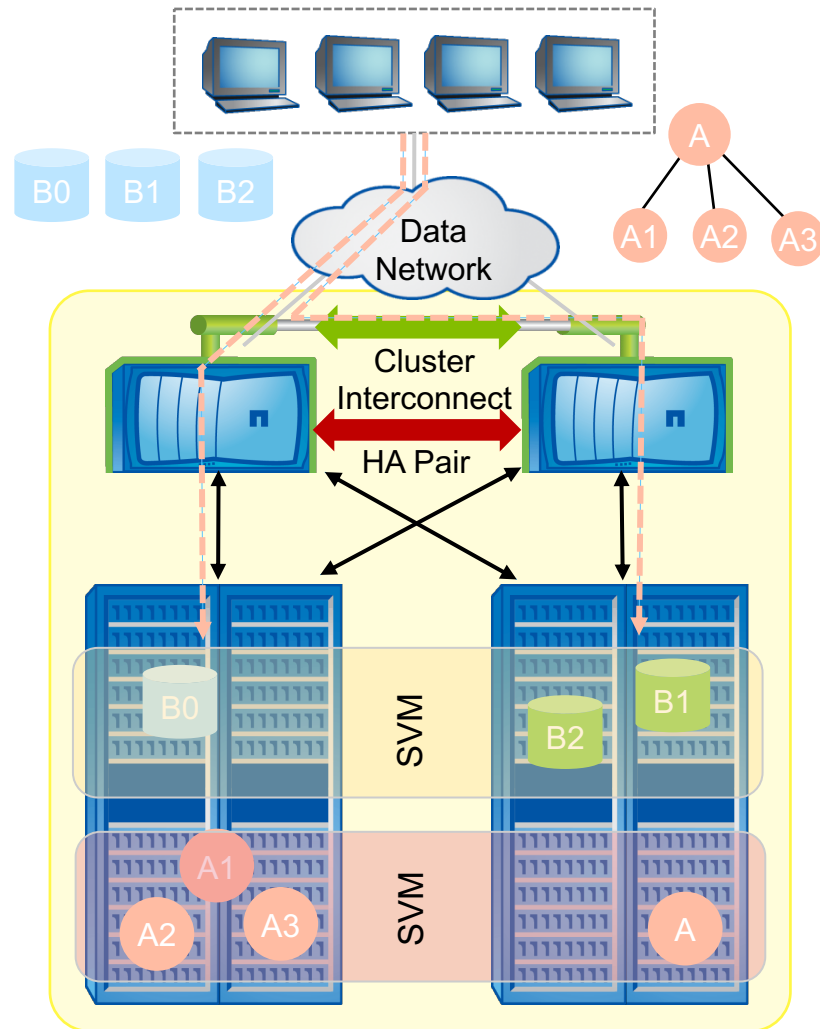
端點對端點 NVMe 儲存設備

適合要求最嚴苛的工作負載

- 加速企業應用程式，延遲極低 (100µs)
 - 傳統企業應用程式：Oracle、SAP、SQL Server
 - 新一代應用程式：人工智慧、深度學習、資料分析
- 可將多種工作負載整合於高密度儲存設備中，大幅降低資料中心成本
- 整合 NVMe 技術、高頻寬網路連線和雲端，輕鬆因應未來需求

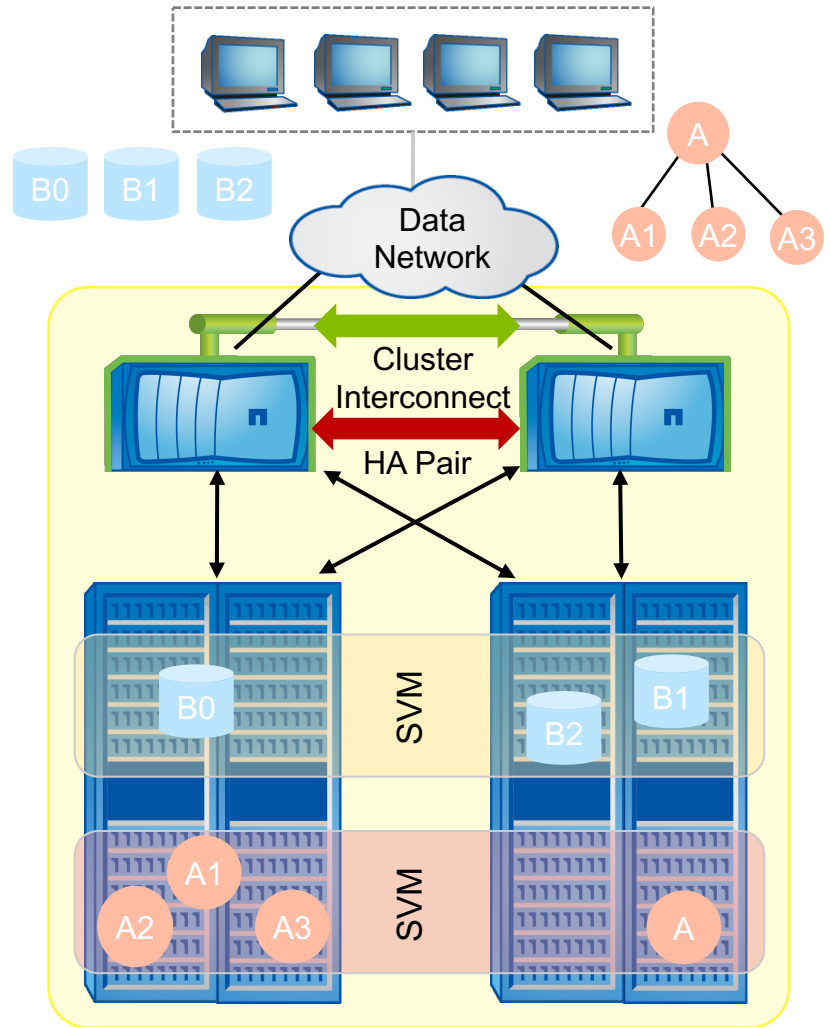


情境一:多租戶管理



- Simplifies management:
 - Compared to individual volume mount points or LUN mappings
 - Especially in large environments
- Is easily modified to meet changing business needs
- Seamlessly grows or shrinks; can scale to many petabytes
- Includes an application view that is unchanged as data moves
- Provides access to any data from anywhere

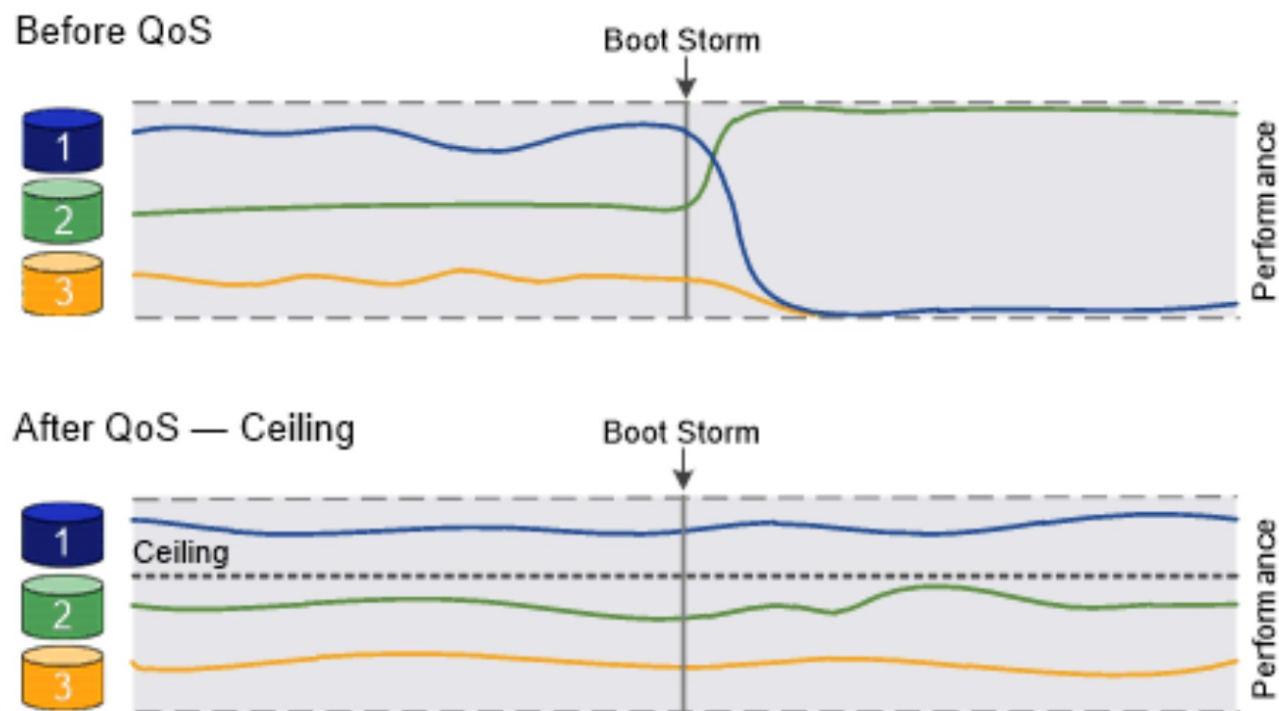
情境一:多租戶管理



- Move volumes from one aggregate to another:
 - Independence of source and destination aggregate type
 - Data moved within an SVM
- Data access is unchanged:
 - Eliminates need for volume remounts and client changes
 - LUN mappings are consistent
- No impact to clients and applications; cutover is within NAS and SAN timeouts

情境一:多租戶管理

NetApp QoS



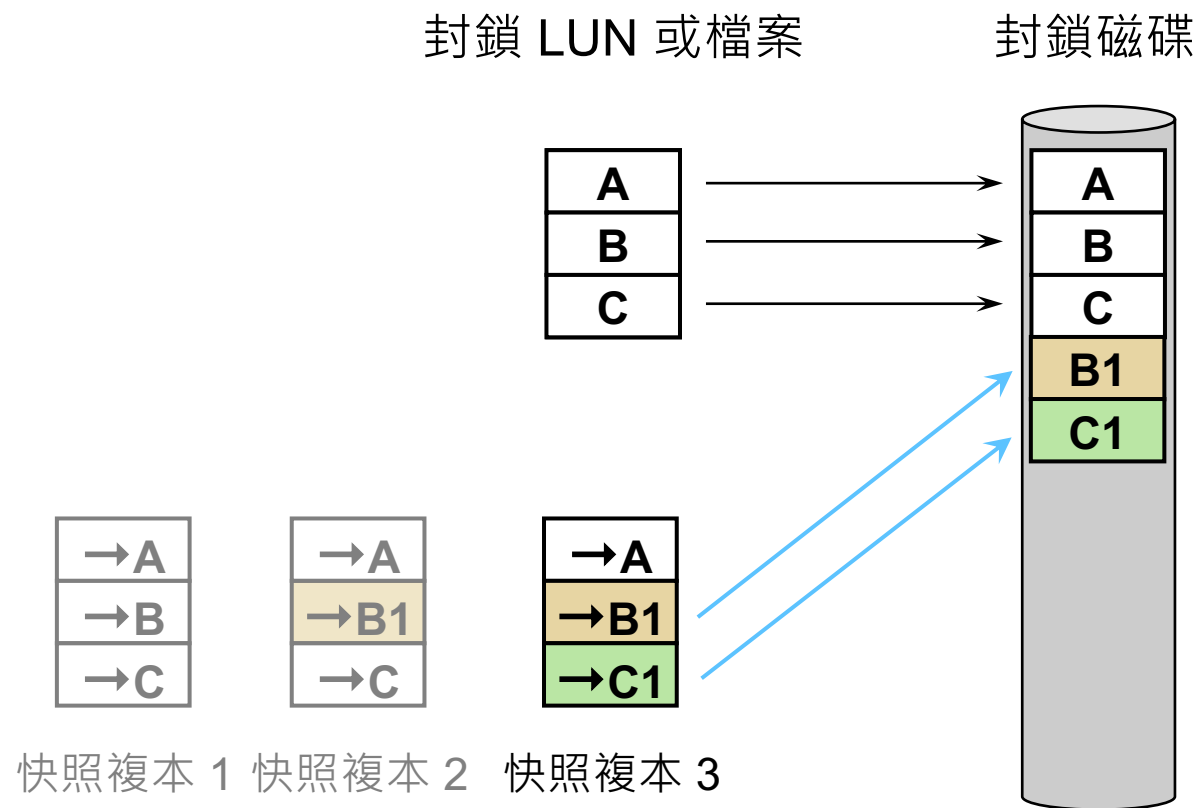
- QOS可設定 IOPS或 MBs
- QOS可設定最大級最小值
- QOS可針對 Volume, File, LUN或 SVM 進行設定



情境二:利用 NetApp Snapshot 快照複本對付勒索軟體

TR-4572 《NetApp 勒索軟體解決方案》

- 監控 NetApp® Snapshot™ 快照複本：
 - 異常增加？
- 您遇到勒索軟體了嗎？
 - 使用未被感染之前的快照複本進行還原
- 快照複本為唯讀：
 - 所以不會被勒索軟體感染

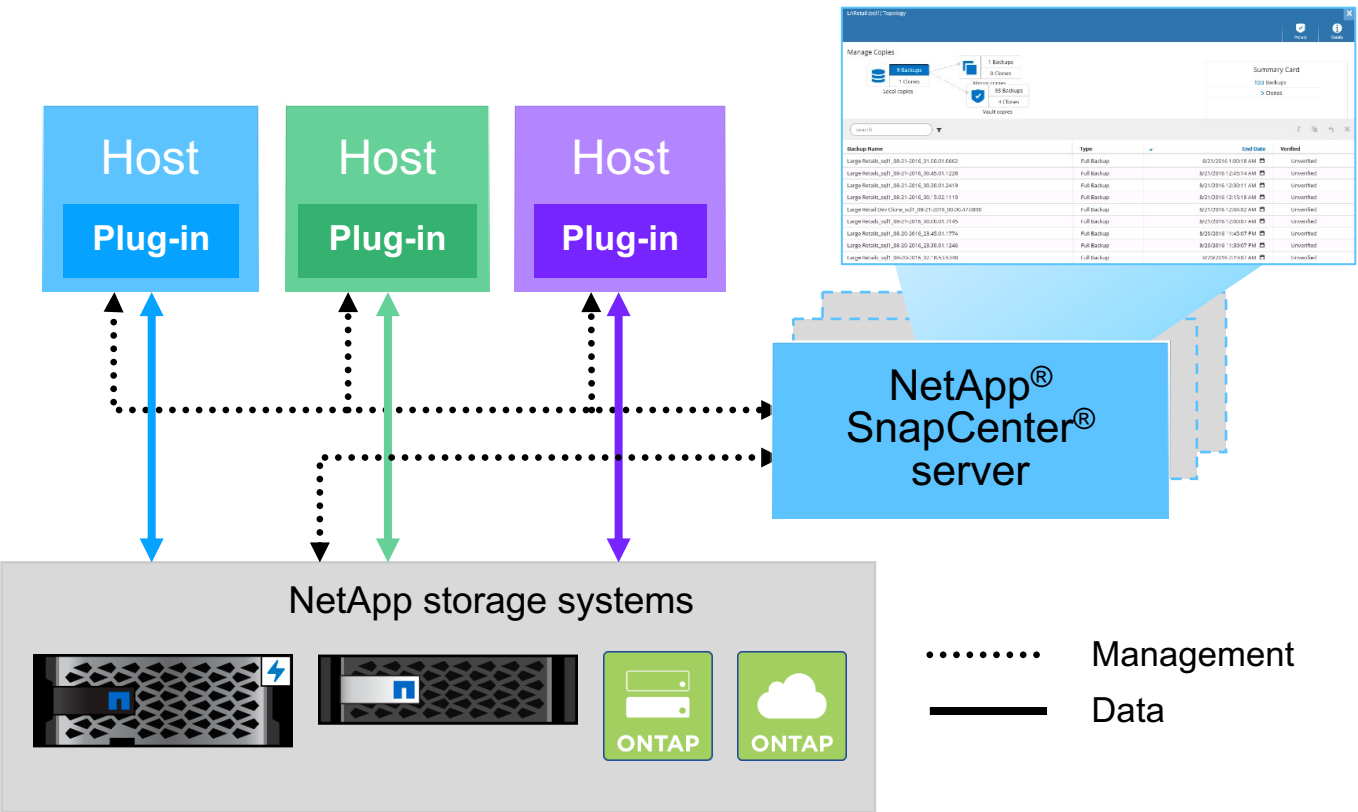


NetApp SnapCenter Software

Unified, scalable software for data protection and clone management



Remediation
and restoration



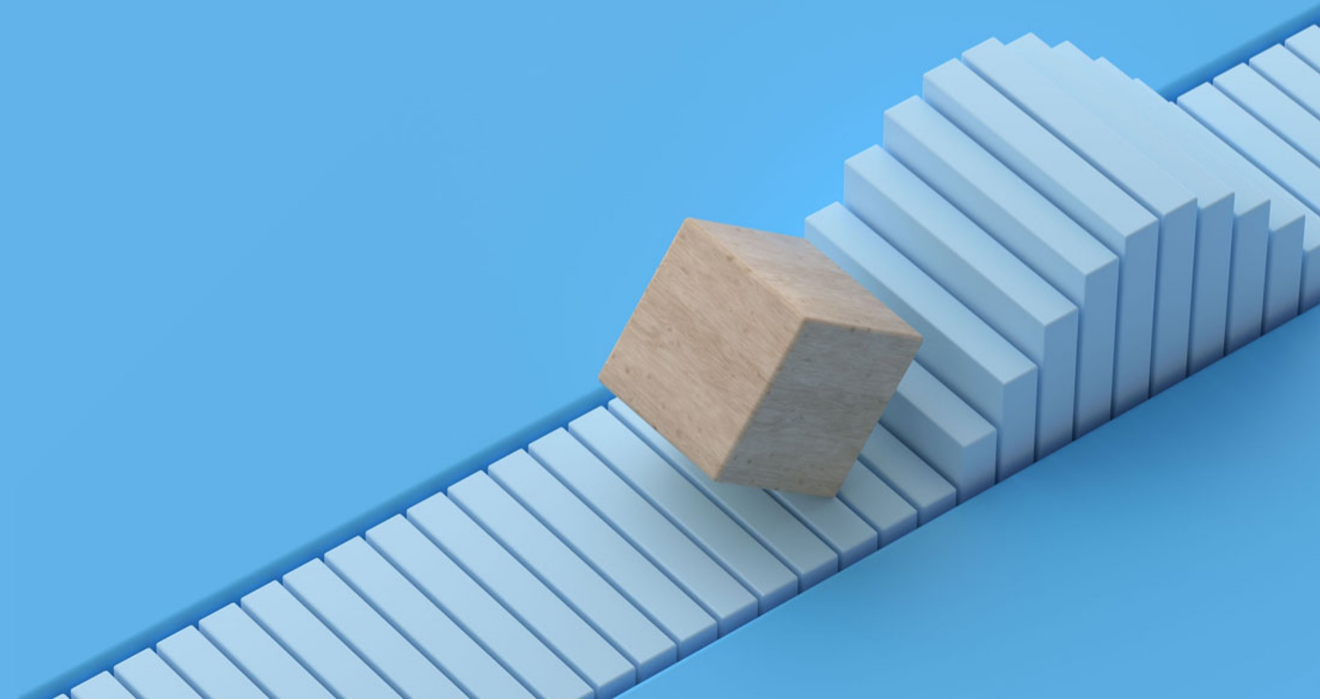
NetApp supported:



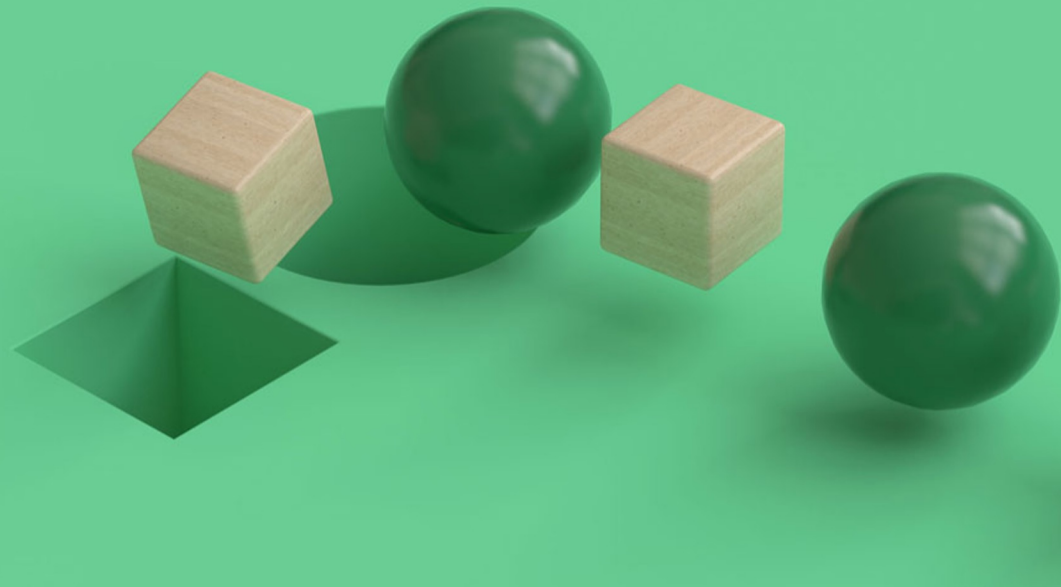
Community supported:

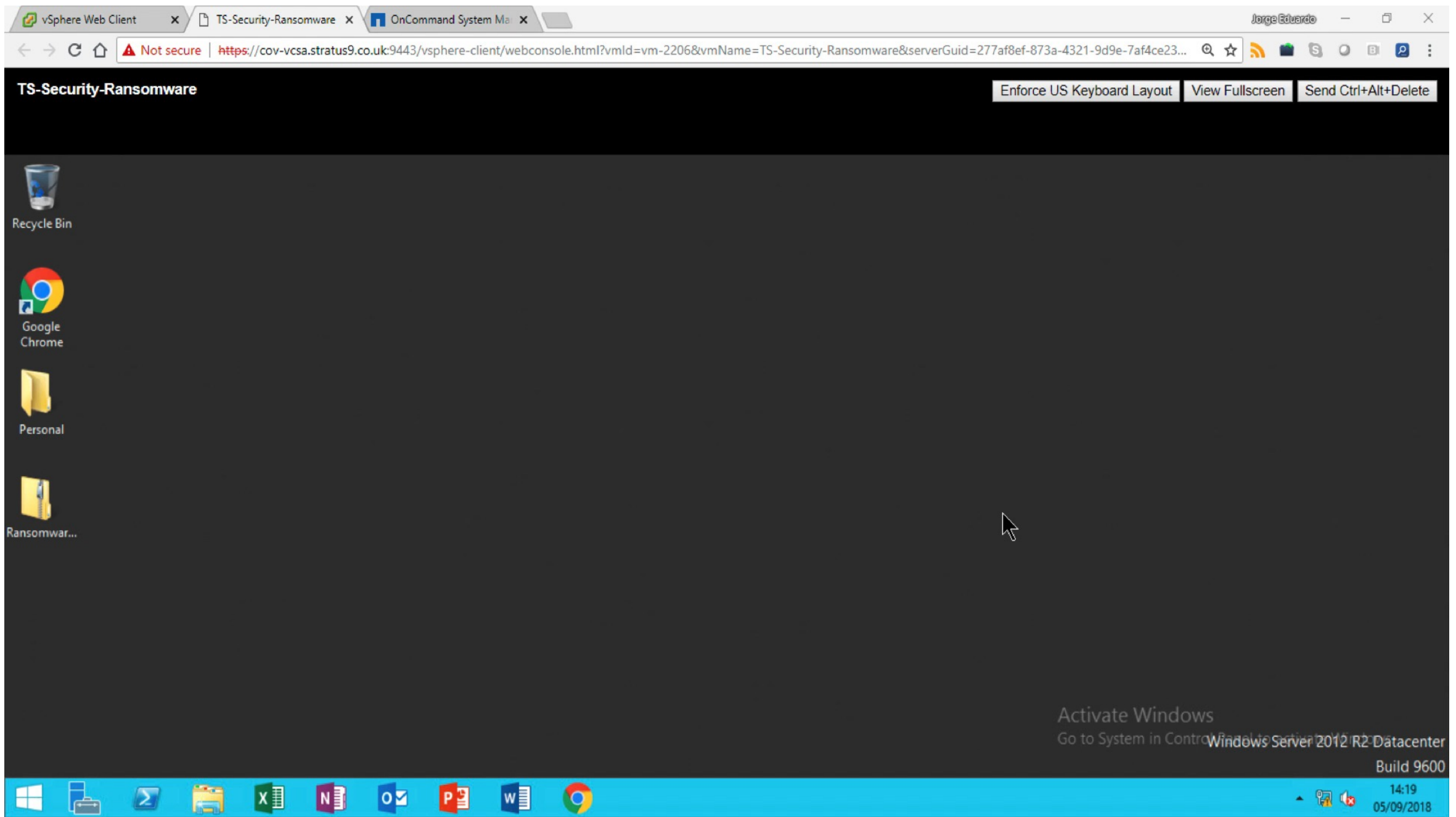


Demo Real Ransomware Attack



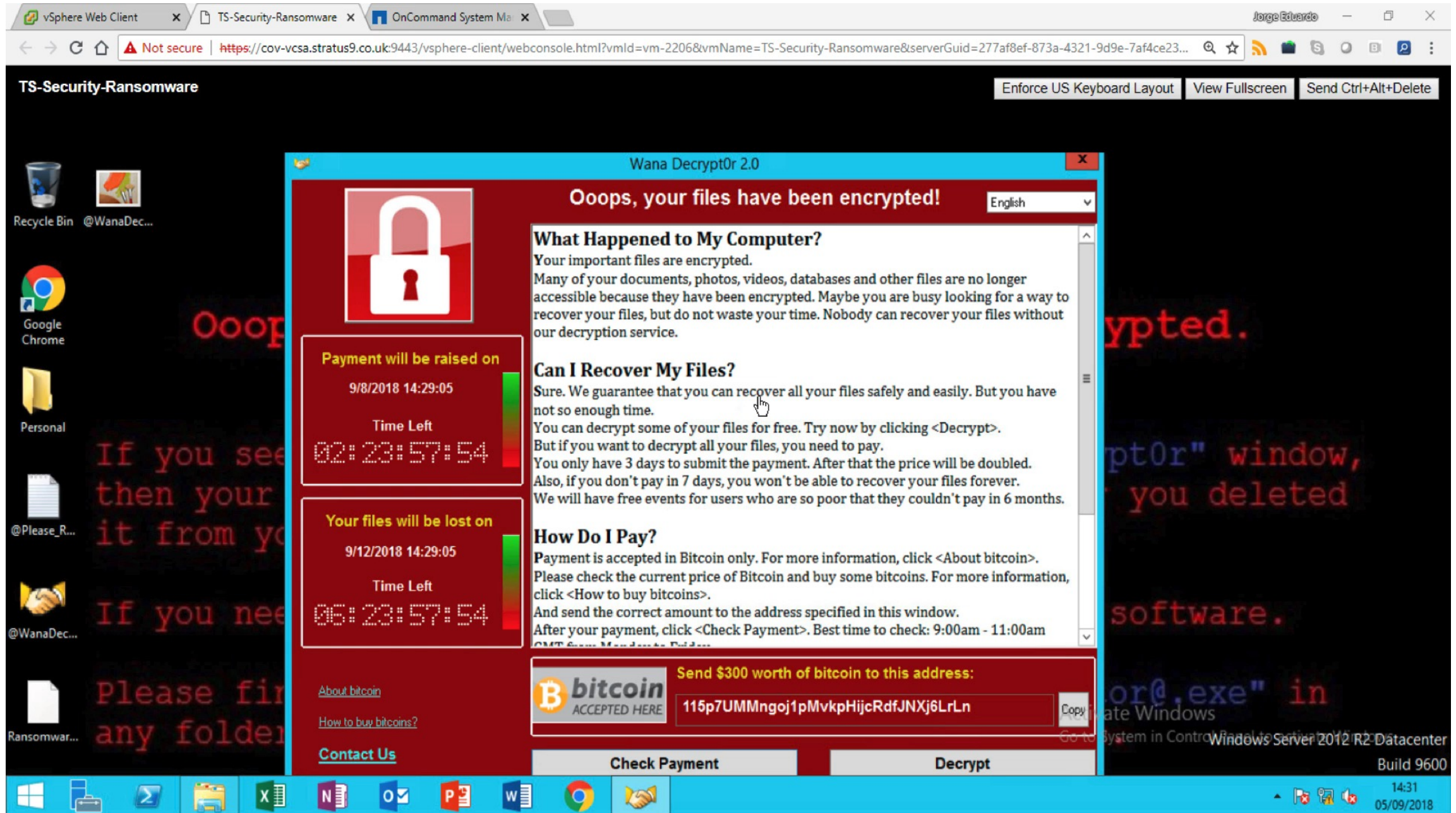
Infection with .WNCRY



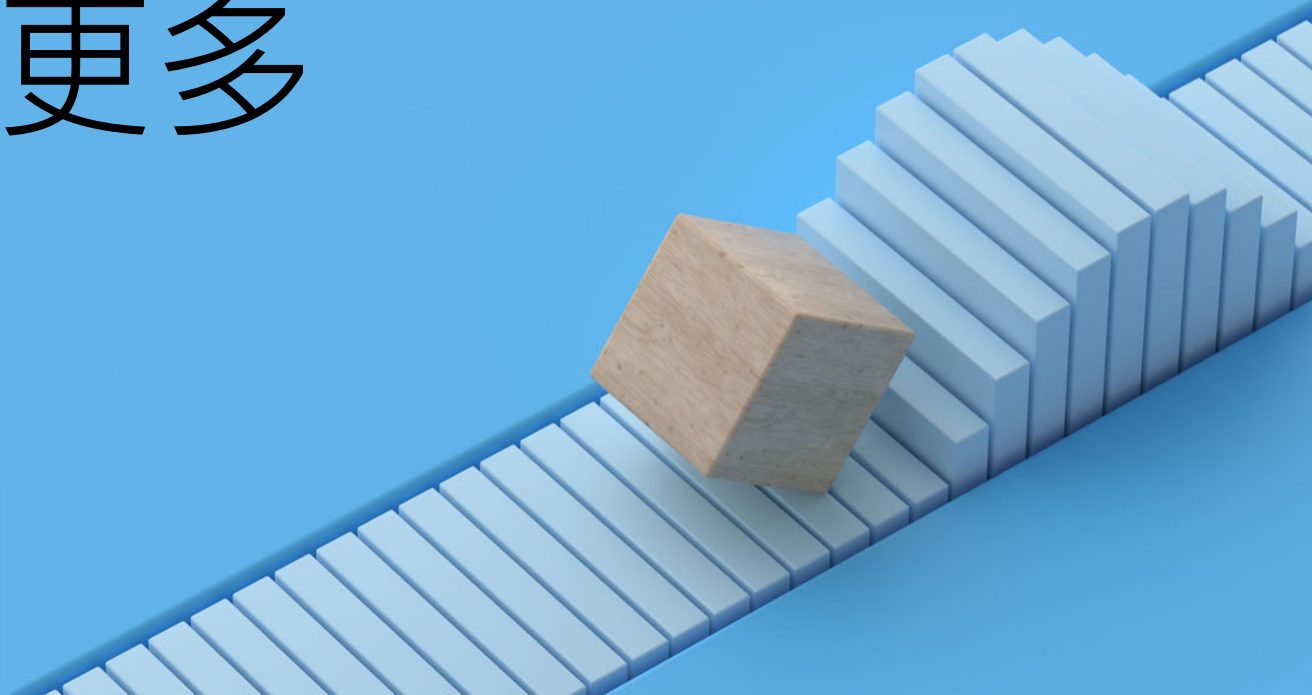


Recovery Using NetApp SnapCenter for VMware

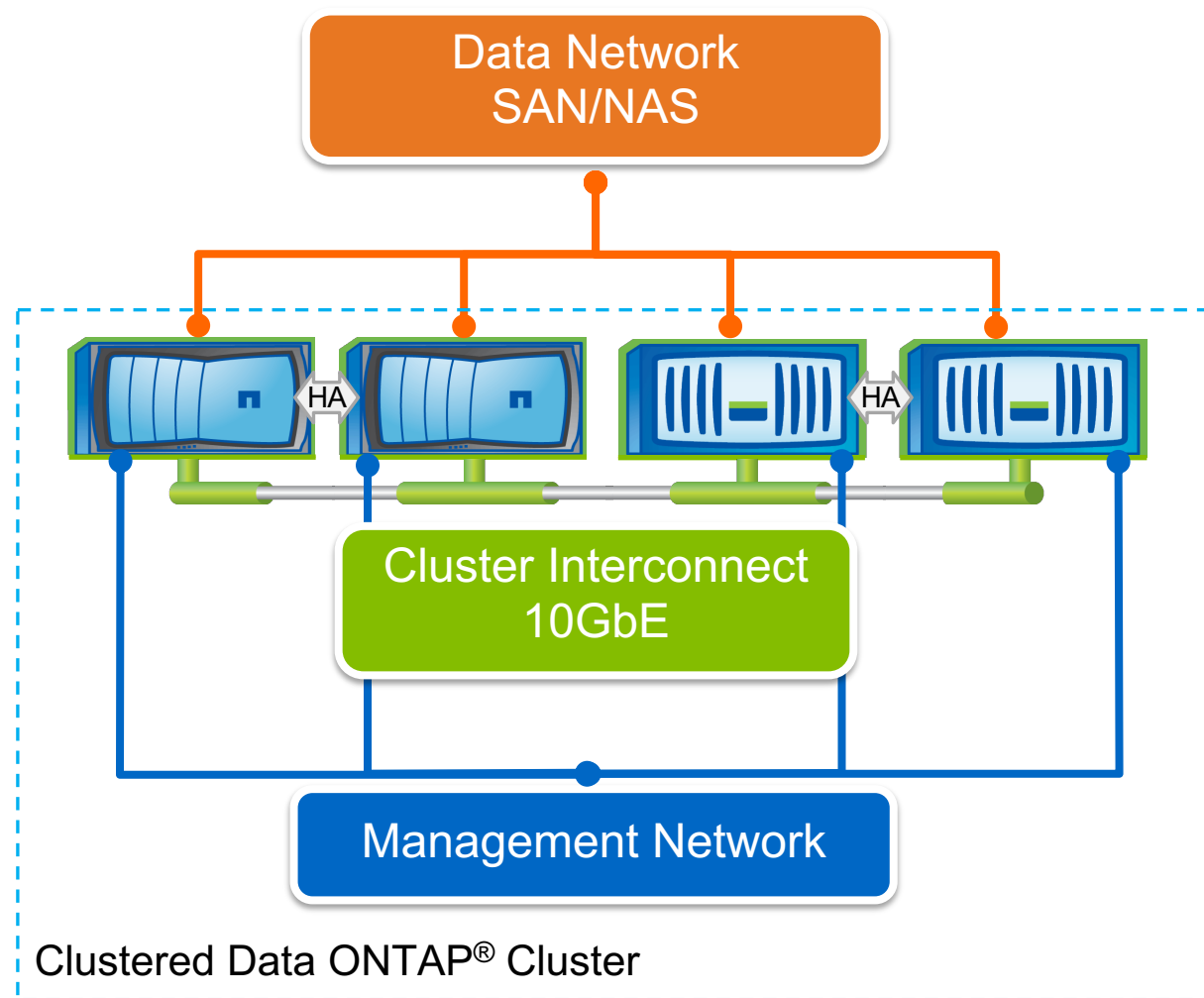




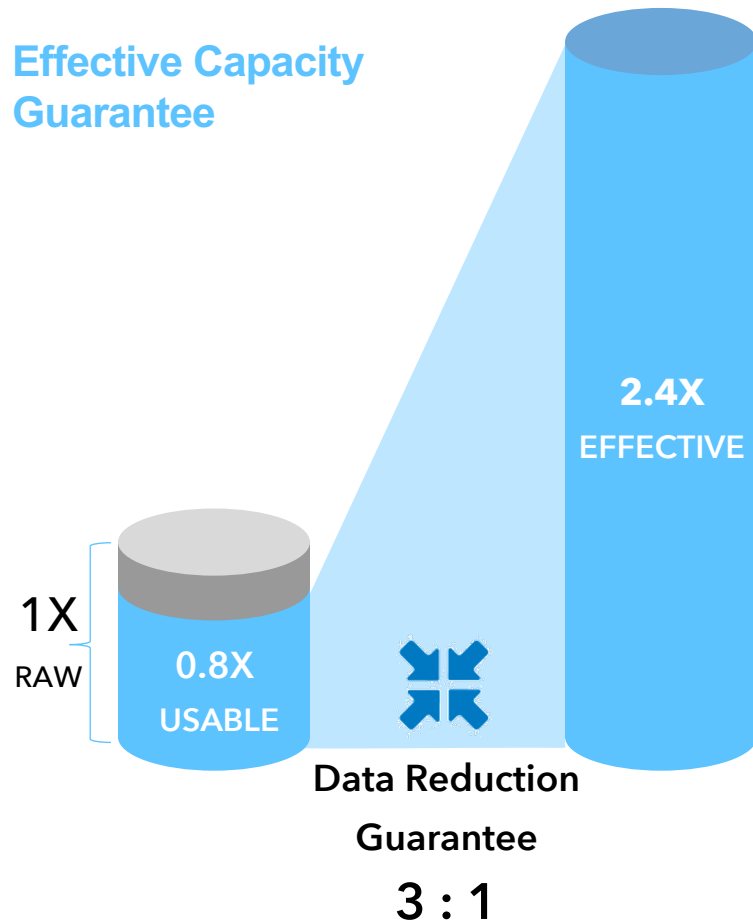
NetApp 給您更多



跨世代跨型號橫向擴充



儲存空間保證



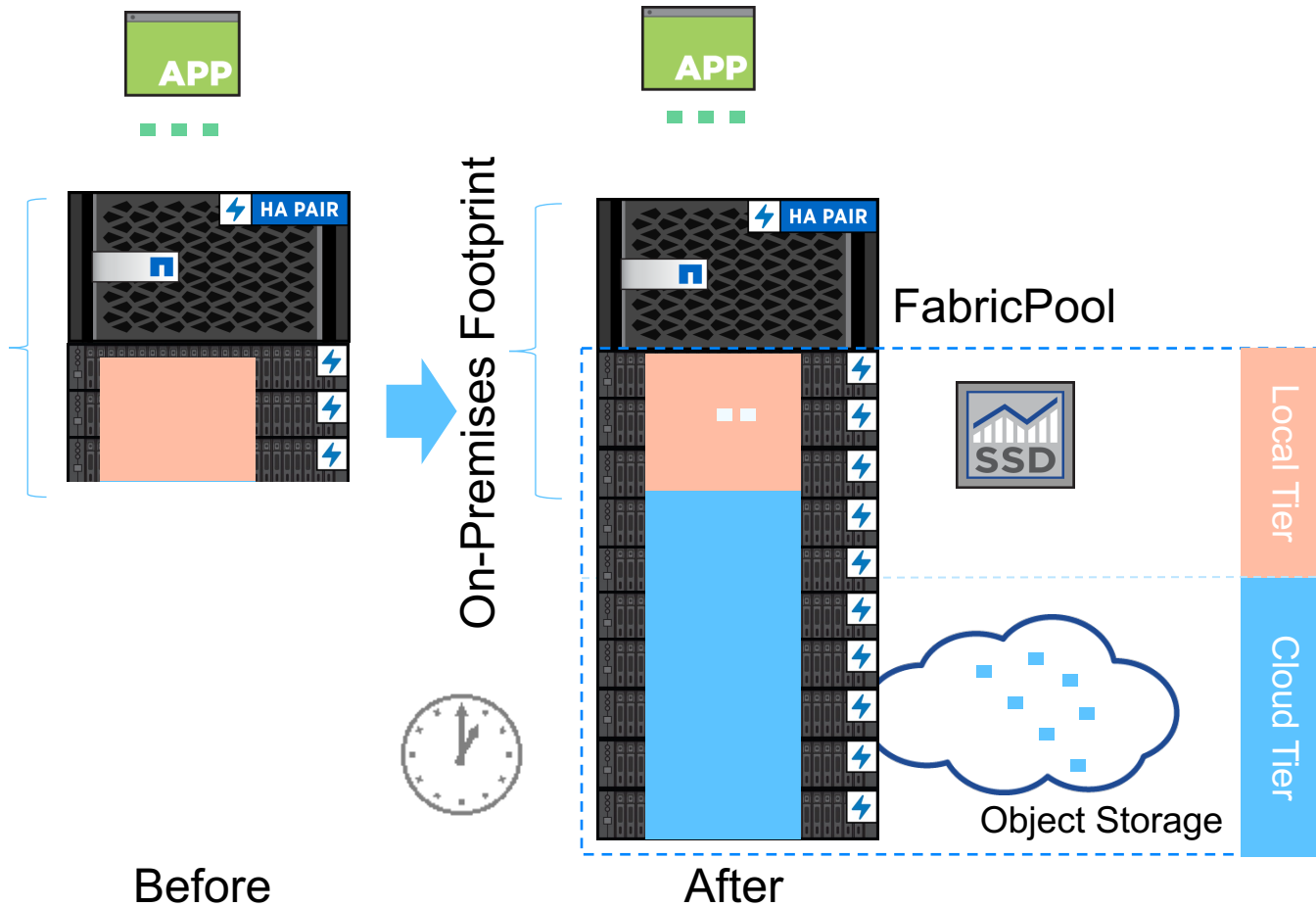
Simple. Risk-free. Guaranteed.

Efficiency Guarantee:

- 依照不同的Workload進行評估
- 虛擬化平台 3:1
- 資料庫 2.5:1
- VDI Full Clone 8:1
- VDI Linked Clone 4:1

The FabricPool Solution

What Is FabricPool?



- Automatic tiering
- Zero-touch management
- Preserves file system
- Lower cost of ownership

Active Data Inactive Data

NetApp ONTAP AI 整合式解決方案

NetApp 和 NVIDIA 提供的規範式產品可簡化AI 工作負載的相關採購、設定、安裝和支援工作



規模

三種組態：小、中、大型



容量

每項產品都有兩個容量選項，
並可隨需擴充



支援

一通電話即可取得支援

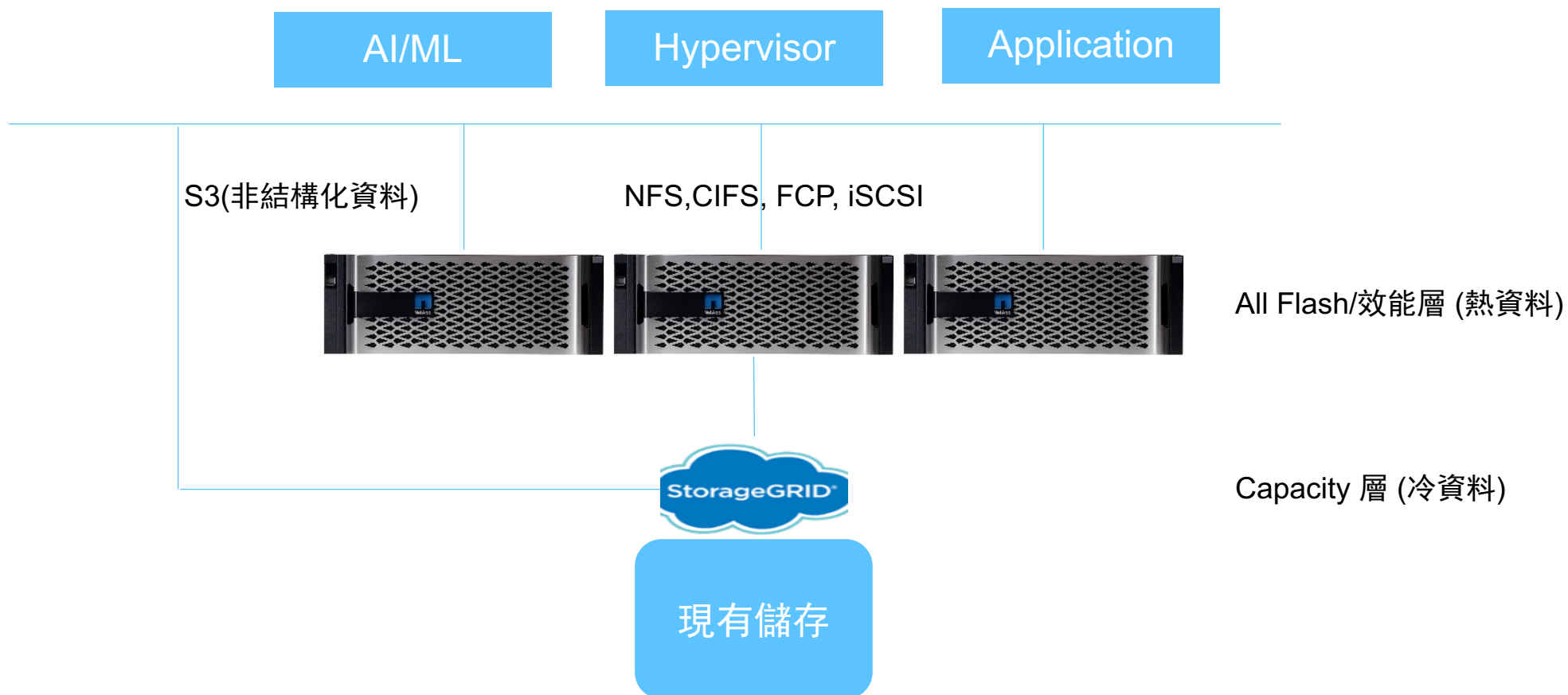
預先定義的組態，帶來簡易的操作體驗，多種組態更可滿足您的業務需求

提供三種組態，每種都有兩個容量選項



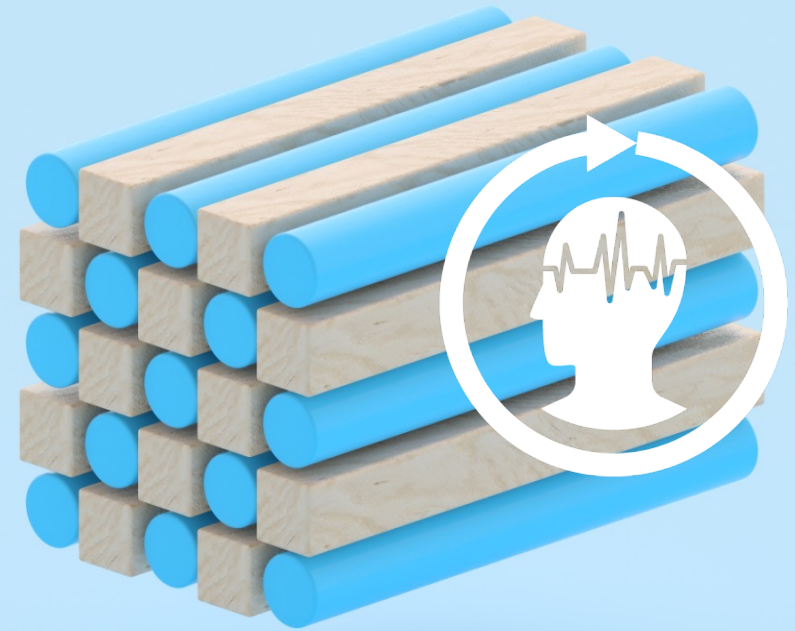
	小型		中型		大型	
運算	2 節點 NVIDIA DGX A100		4 節點 NVIDIA DGX A100		8 節點 NVIDIA DGX A100	
儲存	NetApp® AFF A400		NetApp AFF A700		NetApp AFF A800	
容量	65TB	131TB	131TB	263TB	263TB	526TB

企業級資源池分享



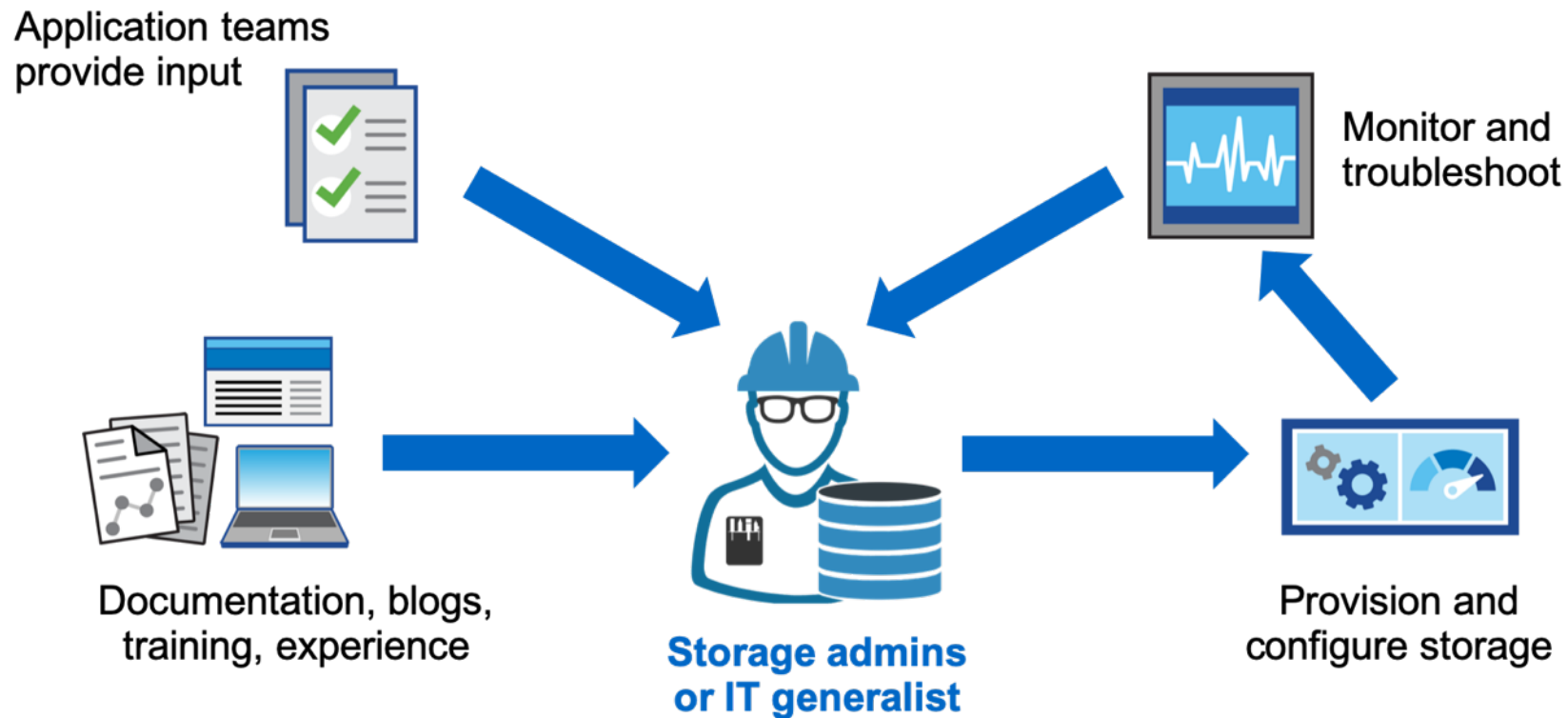
NetApp Active IQ

September 2019

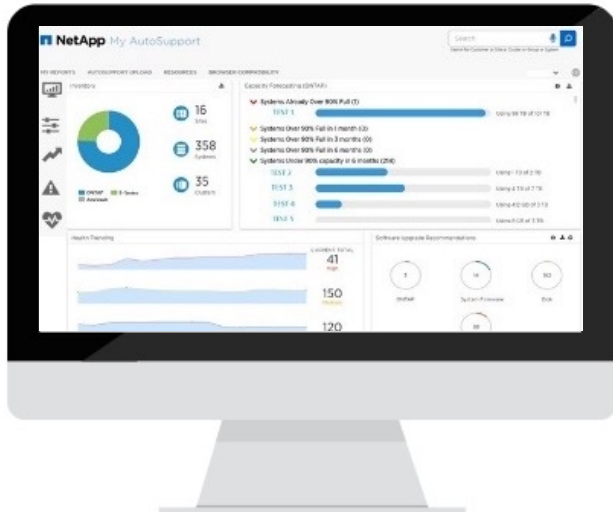


Storage Admins are Struggling to Thrive

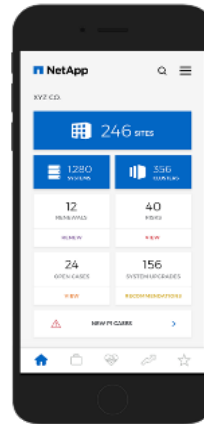
Typical Storage Admin Workflow



Intelligent Insights Available Anytime, Anywhere



Web UI for full-featured
visibility and guidance



Mobile app for
on-the-go alerts
and advice



API support integrates directly
into your change management
workflows and IT dashboards.

NetApp 5大保障

買得安心、事後放心



NetApp

1

市佔率第一品牌

2

多雲整合最完整

3

全台四大備品倉

4

台灣研發、在地支援

5

實現 IT 投資最高價值

Thank You.

