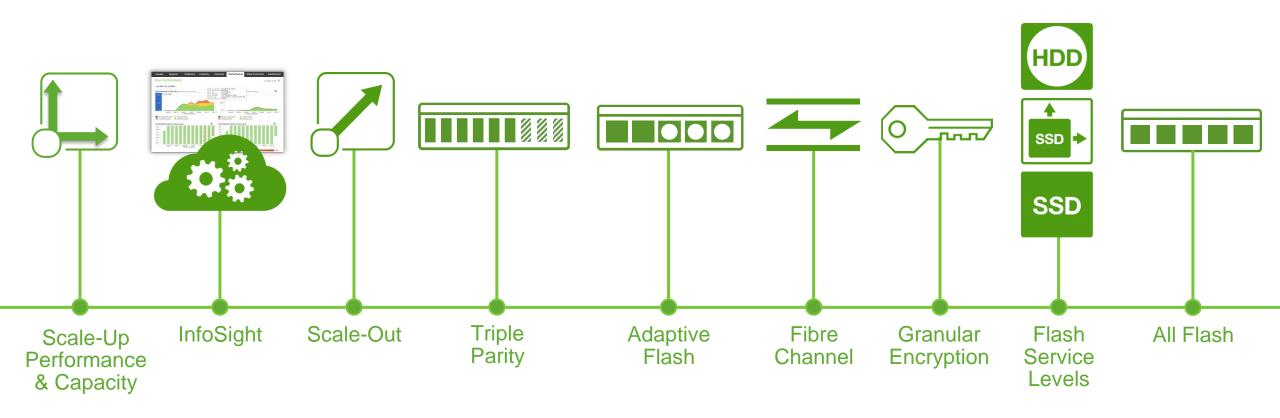




- •高彈性
- •高效能
- •全自動化管理
- 低成本

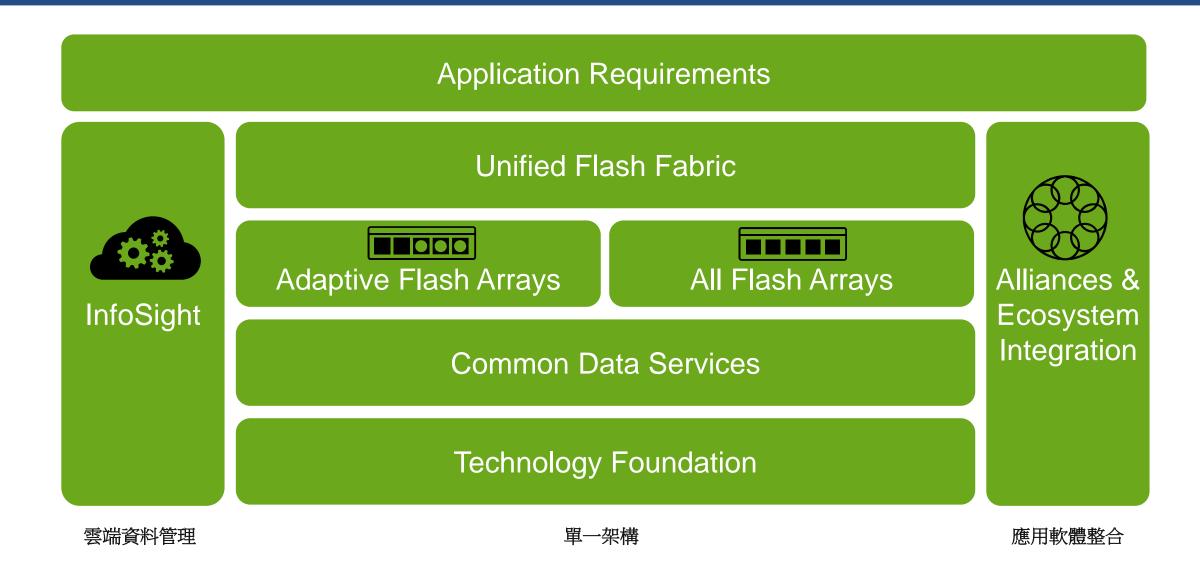


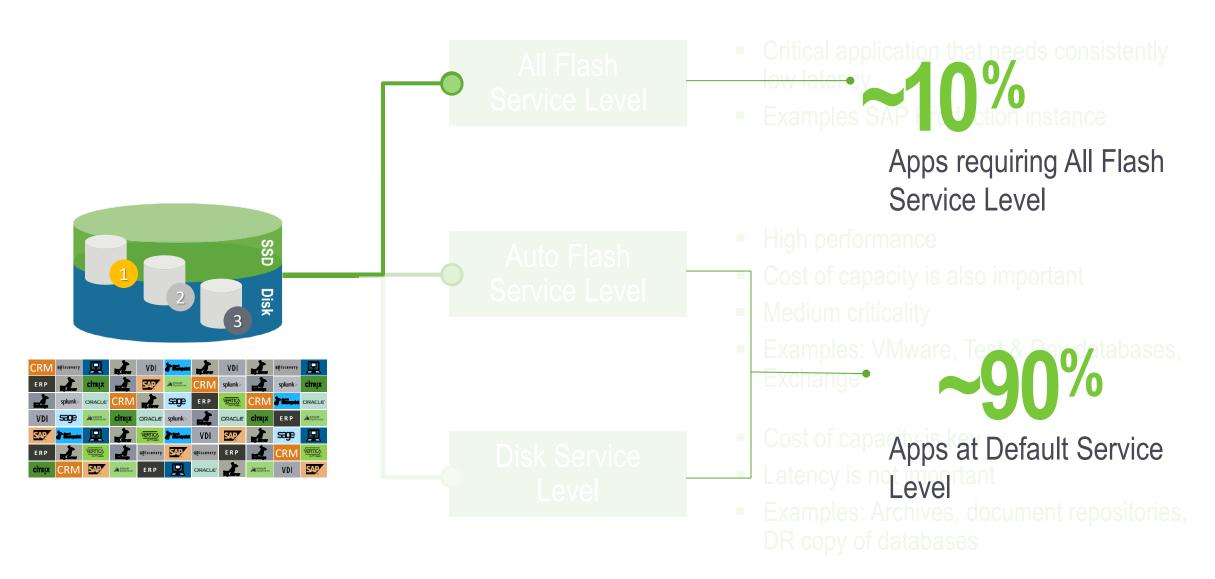












## 因應各種不同存取型態需求







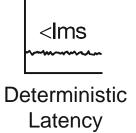


**Data Protection** 





Diverse Workloads



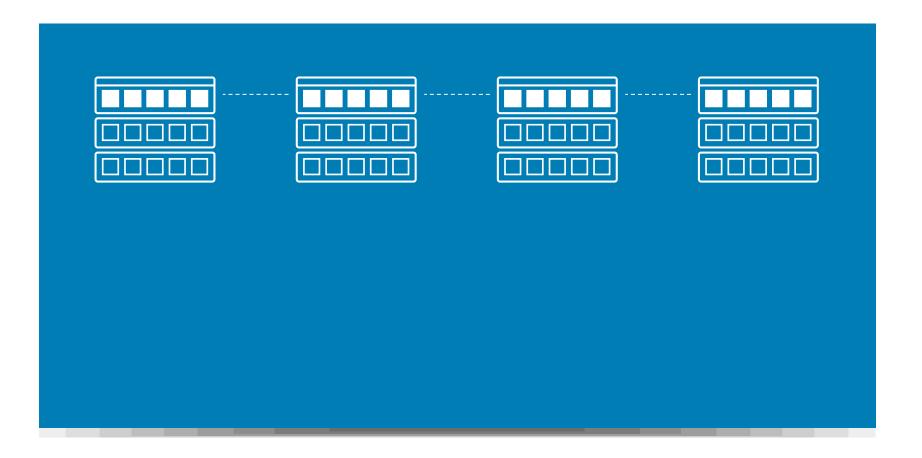


Cost Effective Performance & Capacity





#### Scale Social de Cappton ail y el Verlat Viern Nation en la grande y en la company el Verlat Viern Nation en la company el





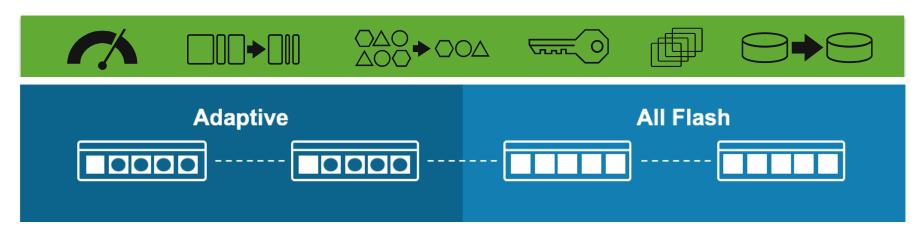






#### APPLICATION REQUIREMENTS

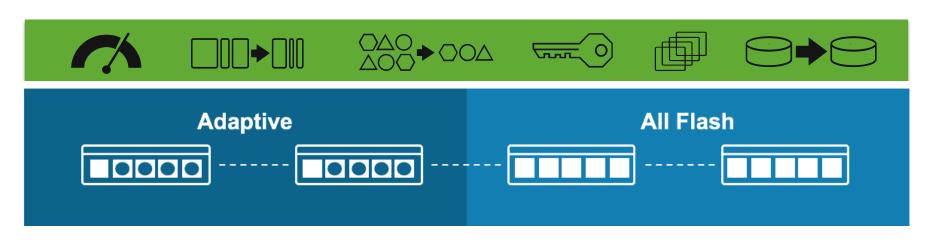
| Yes/No | Storage Services                   |
|--------|------------------------------------|
| ✓      | Guaranteed Latency (<1ms)          |
| ✓      | Compression                        |
|        | Deduplication                      |
| ✓      | Encryption                         |
| ✓      | Local backup (@ 5 mins / 14 days)  |
| ✓      | Data Protection (Hourly / 30 days) |
|        |                                    |



#### APPLICATION REQUIREMENTS

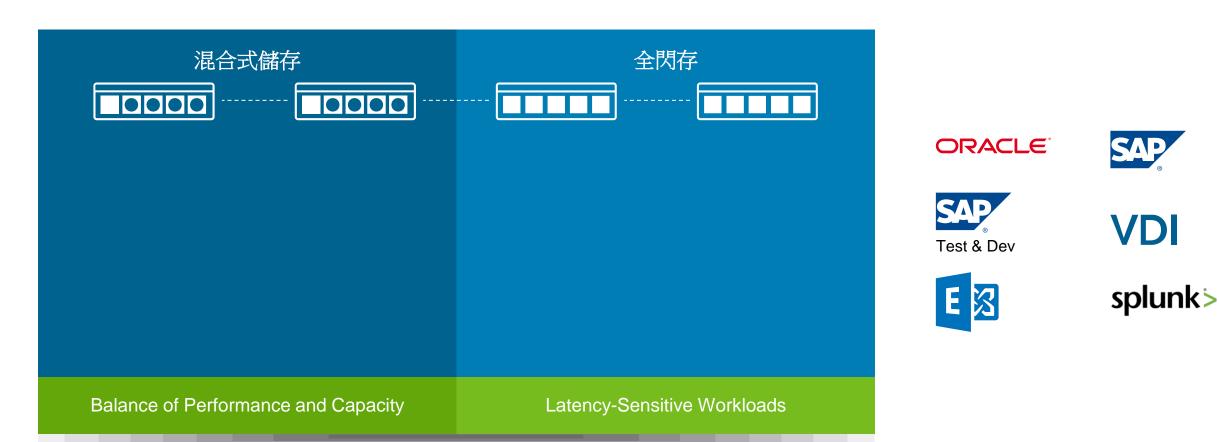
| Yes/No | Storage Services                   |
|--------|------------------------------------|
|        | Guaranteed Latency (<1ms)          |
| ✓      | Compression                        |
| ✓      | Deduplication                      |
|        | Encryption                         |
| ✓      | Local backup (@ 5 mins / 14 days)  |
|        | Data Protection (Hourly / 30 days) |





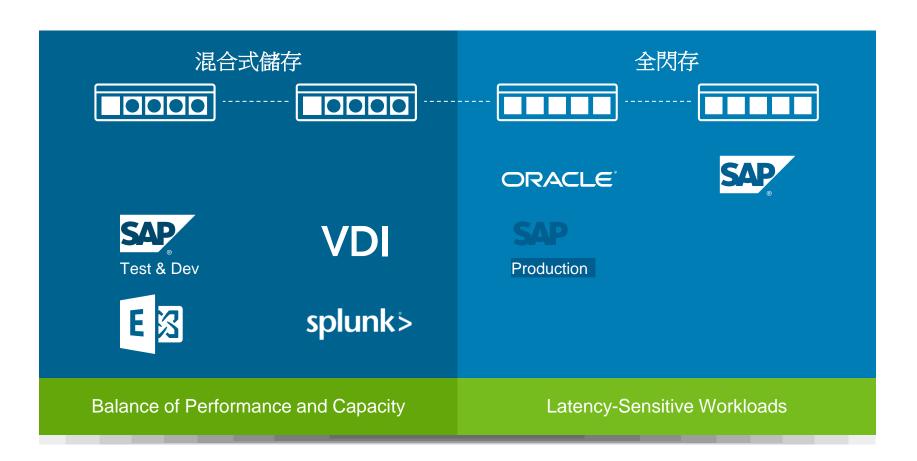


#### Mix-and-Match All Flash and Adaptive-Flash in a Scale-out Cluster





#### Transparent Application Migration Across Adaptive and All-flash Arrays





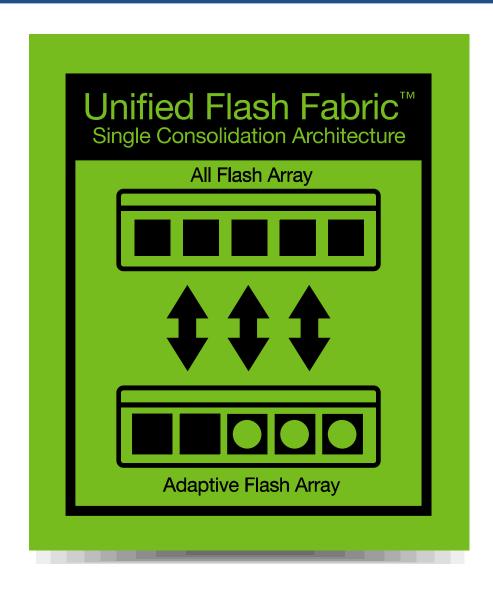












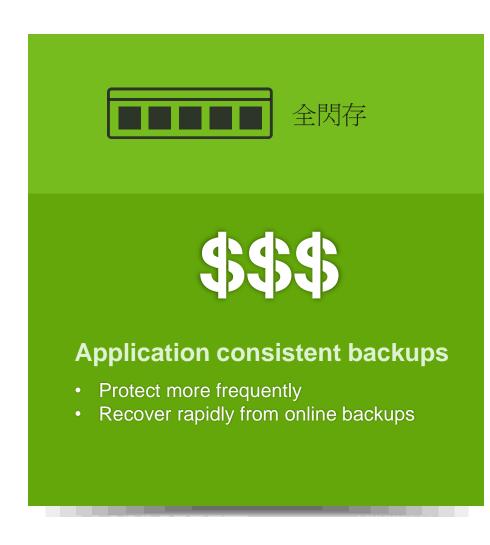
# All Flash: 100% Flash

極致效能 高I/O 超低延遲



高I/O 超低延遲 最佳性能價格比 最佳空間效能比 單一架構 單一管理





WAN efficient SmartReplicate







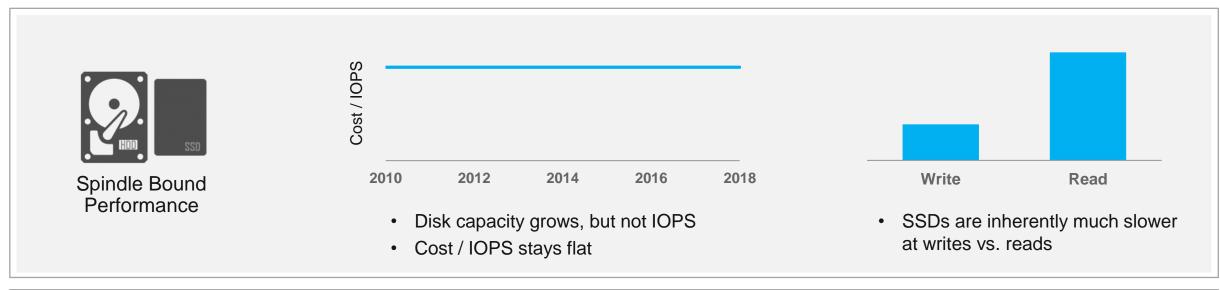
#### Backup, DR and archival

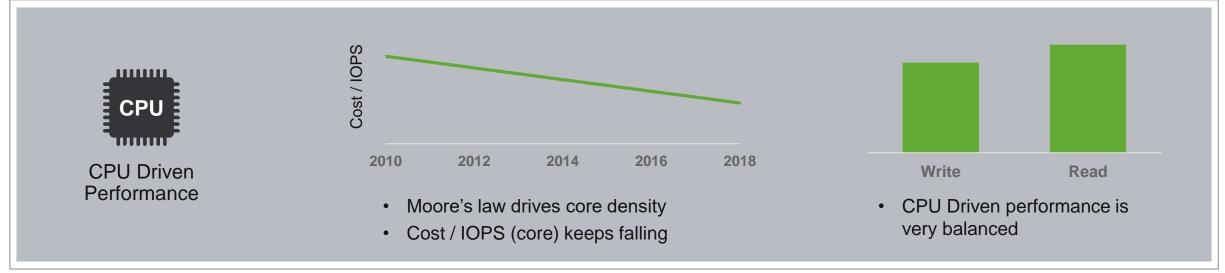
- DR down to 5 min RPO
- Retain backups for months cost-effectively
- Cost-optimized Test/Dev with cloning

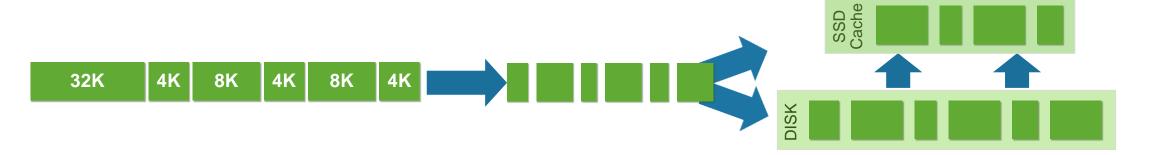


## Nimble CASL - 有效利用CPU創造高I/O低延遲









# UNIVERSAL COMPRESSION: 30-75% SAVINGS

- Variable-size blocks enable fast inline compression
- Elimination of read-modify-write penalty allows compression of all applications

# WRITE-OPTIMIZED LAYOUT: 100x FASTER WRITES

- Guaranteed coalescing of random writes to sequential stripes; eliminates dependency on spindle speed
- Coalesced writes to flash increase lifespan by 500%

# **DYNAMIC CACHING:** 50x FASTER READS

- Cache populated intelligently on first write, instantly on cache miss
- Metadata in cache accelerates all accesses

- ✓ 2-5x better performance / \$
- ✓ 2-5x better capacity / \$
- √ ~ 4x reduction in footprint, power and cooling



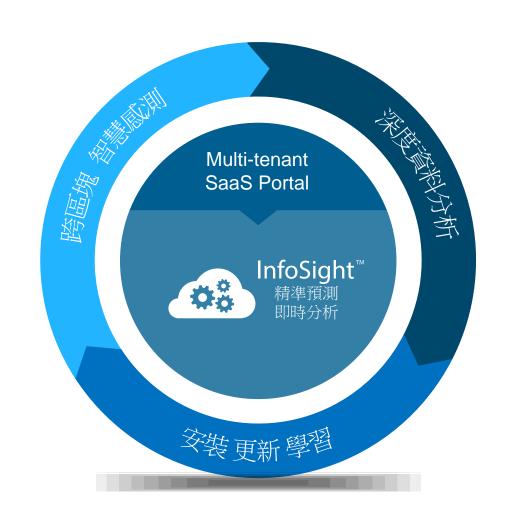
InfoSight collects and analyzes more sensor data points every four hours, than there are stars in our galaxy



防止潛在問題及停機 產生

根本原因快速分析

未來需求評估及計劃建 議

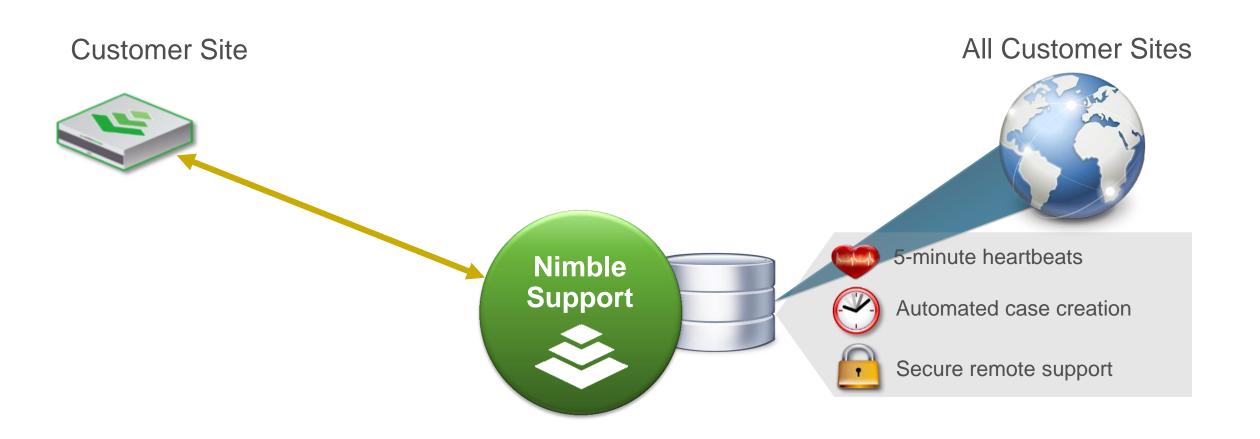






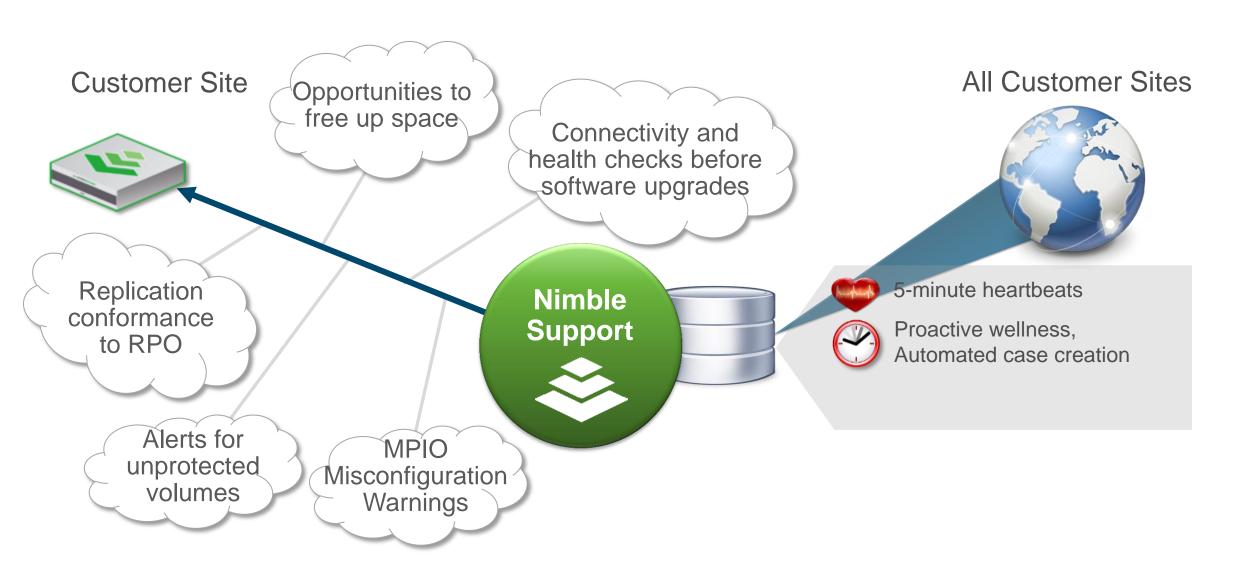




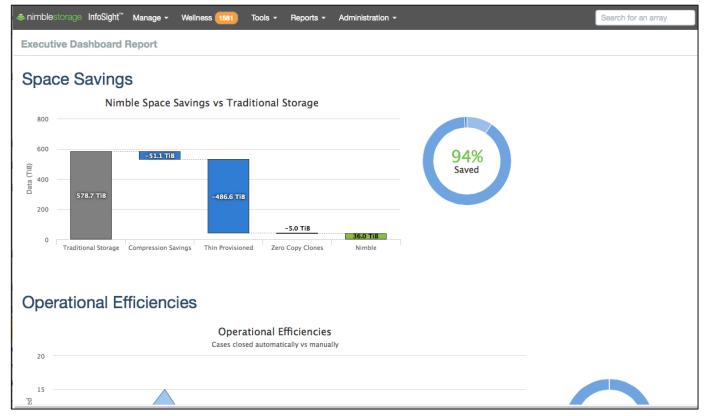


### **Predictive Analytics**





## InfoSight – 系統現況報表

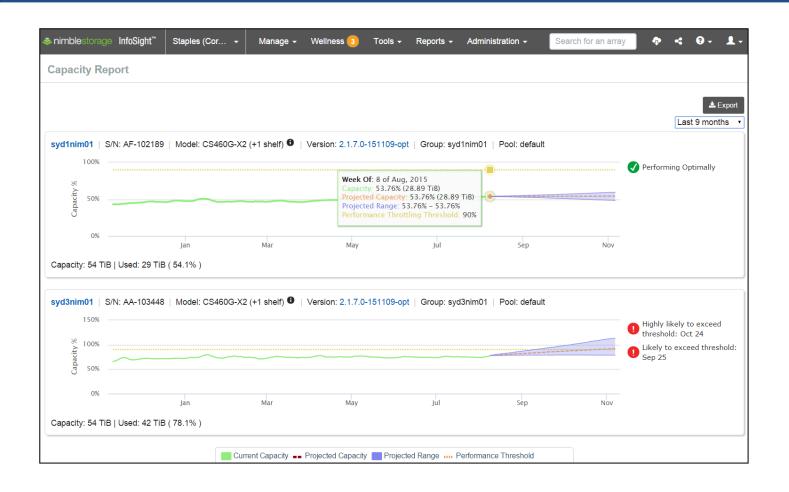


- Executive dashboards give you peace-of-mind that everything is running perfectly
- Correlated visualization provides a use-case view of what's happening across the "applications-to-storage" stack
- Manage your global storage environment from anywhere

Complete visibility through the cloud to all information you need to maintain a resilient environment and ensure smooth operations

## InfoSight – 未來擴充評估建議





#### Key Insights

- What is our current growth rate?
- When will we likely need more storage capacity?
- How much headroom do we have for new applications or workloads?
- How do we report back to the business?



## 最低成本高效能全閃存儲存系統









• 千份以上快照

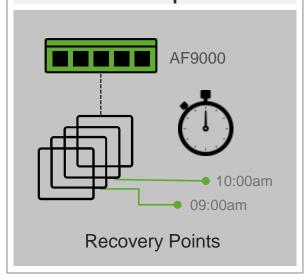
• 瞬間資料複製

• 無限制備援

• 系統層級資料加密

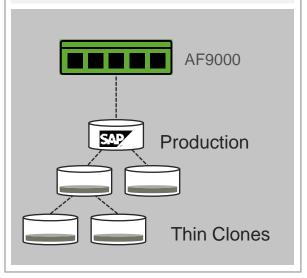
#### SmartSnap:

- Instantaneous, zero-copy, backups
- Efficient (thin, compressed & deduplicated)
- Near instantaneous restores
- WAN optimized w/ data integrity checks
- · No license required



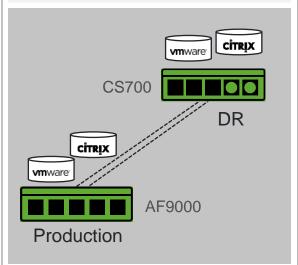
#### **SmartCopies:**

- Instantaneous
- Zero-data copy
- Efficient (thin, compressed & deduplicated)
- Used dev-test or backups
- No license required



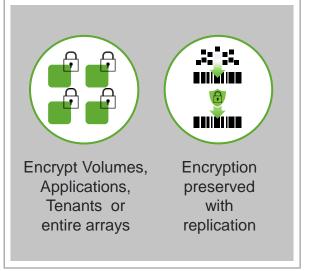
#### **SmartReplicate:**

- Efficient (thin, block diffs+ data reduction)
- · WAN optimized
- Secure (AES-256bit encryption)
- No license required



#### **SmartSecure:**

- Flexible
- Secure WAN replication
- FIPS 140-2 certified
- No license required



### Nimble Storage and OpenStack



- Founded in 2008 an
- Headquartered in Sa
- 1000+ employees, 6
- OpenStack and com
  - OpenStack sur
  - OpenStack day
  - Silicon Valley C
- Customers focus an

 https://www.opensta storage



de

