

BYTES & BRASAS



Hewlett Packard
Enterprise

4IT
SERVICES
Passion for IT Services

CompuSoluciones 





AGENDA

Explora nuestras soluciones avanzadas para optimizar tu infraestructura tecnológica y potenciar tu negocio.

Registro: 17:00 a 17:15 Hrs.

Bienvenida: 17:30 - 17:35

+

Transformando las operaciones de datos con HPE
Alletra MP | Erick Flores Rivas: 17:40-18:10

+

El camino de AI para potenciar tu transformación digital
Metodología Digital Next Advisory (DNA) | Loredana
Russo: 18:15 - 18:45Hrs

+

Automatización de Procesos de Negocio | Fernando
Poblano: 18:45 - 18:50Hrs

+

Curso de Asado y Networking

+

Cierre Evento.

+



Erick Flores Rivas | HPE

Transformando las operaciones con HPE Alletra MP

BDM – Data Services



**Hewlett Packard
Enterprise**

HPE Alletra Storage MP B10000

Erick Flores Rivas

Abril 2024

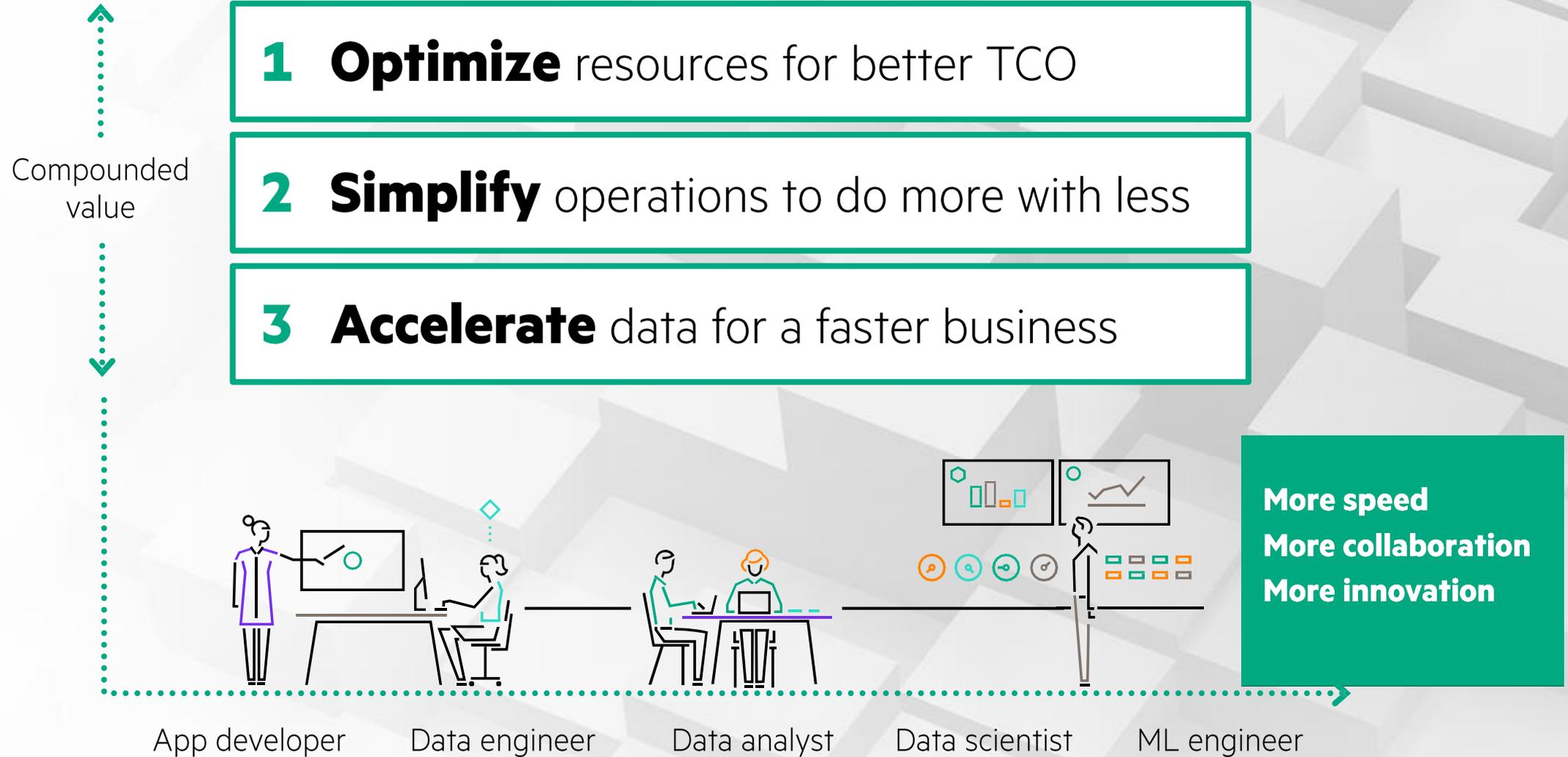
Including all R5 updates

R5 has been announced at **NVIDIA GTC 2025**
and will be rolled out beginning May 2025

DATA



Three strategic imperatives to unleash data, the fuel of modern business



A unified portfolio built on HPE Alletra Storage MP

**Mission critical storage
for structured workloads**

**High performance
for AI applications**

**Accelerated data access
for unstructured workloads**



Block



File



Object

HPE Alletra Storage MP

One architecture, **One** operating model

HPE Alletra Storage MP B10000

Industry's **first** disaggregated,
scale-out block and file unified storage



Block



File



Superior flexibility and economics

with unified multi-protocol
disaggregated scale-out storage

Accelerate operations

with AI-driven hybrid cloud
experience

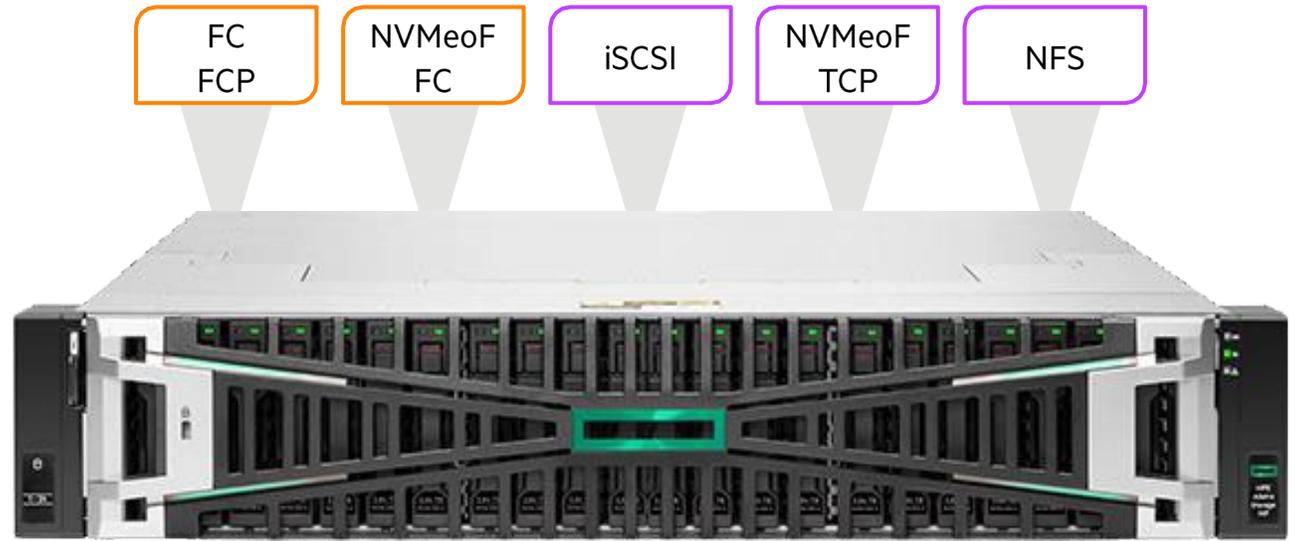
Ultimate peace of mind

from downtime and threats through
multi-layer ransomware protection and
guaranteed 100% data availability.

HPE Alletra Storage MP B10000 multi-protocol support

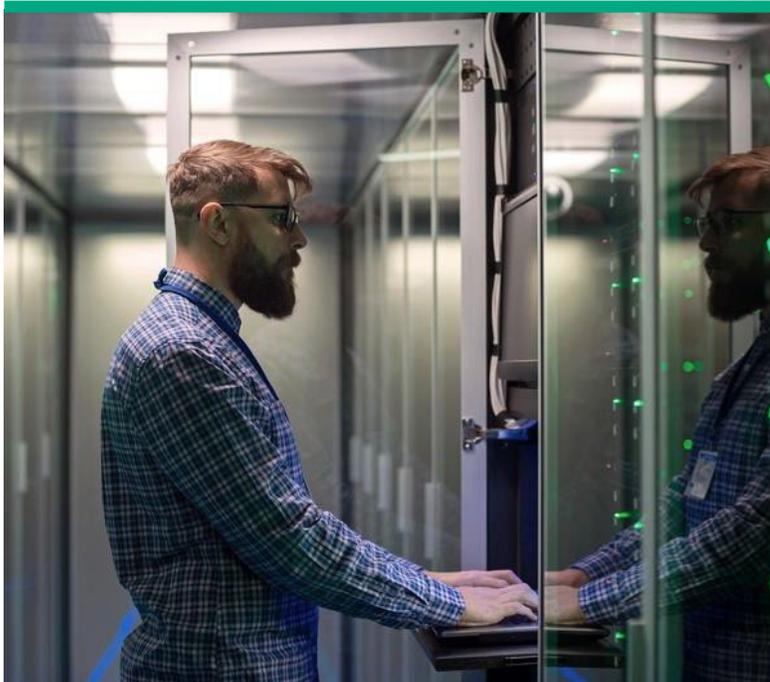
Available
with R5

- Starting with OS 10.5 the platform provides native concurrent multi-protocol support for
 - Block storage
 - 32Gb FCP Fibre Channel
 - 32Gb NVMeoF-FC
 - 10/25Gb iSCSI
 - 10/25Gb NVMeoF-TCP
 - File storage
 - 10/25Gb NFS v4

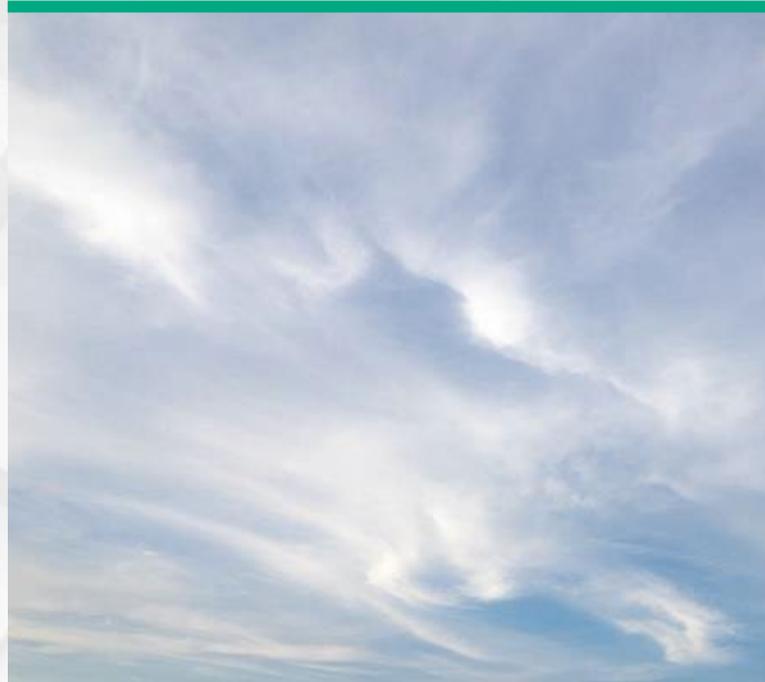


What's new

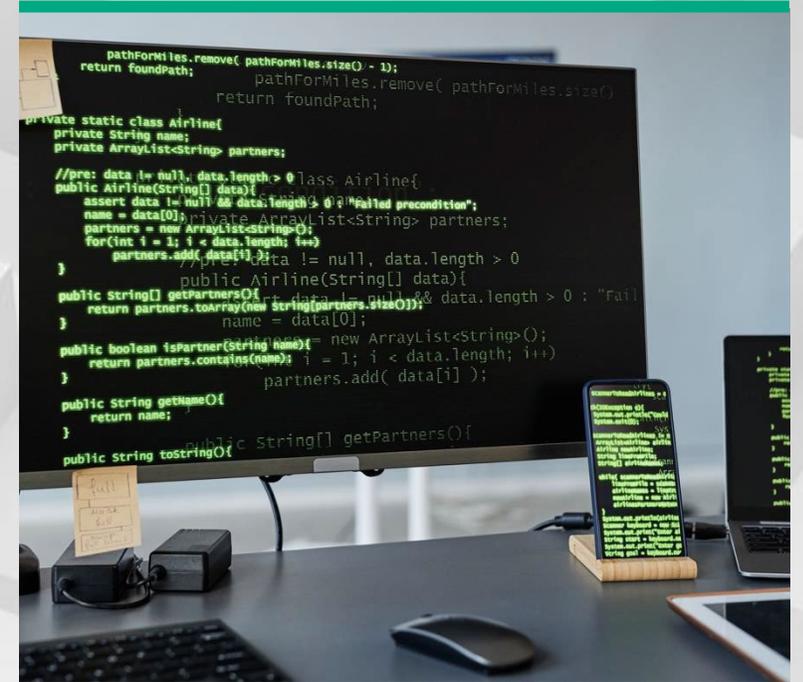
Unified file and block with disaggregated scale-out*



Expanded public cloud services with Azure*



Native ransomware detection and recovery*



* Expected to be available in Q3 2025.

Superior flexibility and economics from unified disaggregated architecture

- Consolidate workloads and eliminate silos with unified file and block in the same OS
- Reduce TCO with independent scaling of performance and capacity
- Meet business needs with superior flexibility

Zero

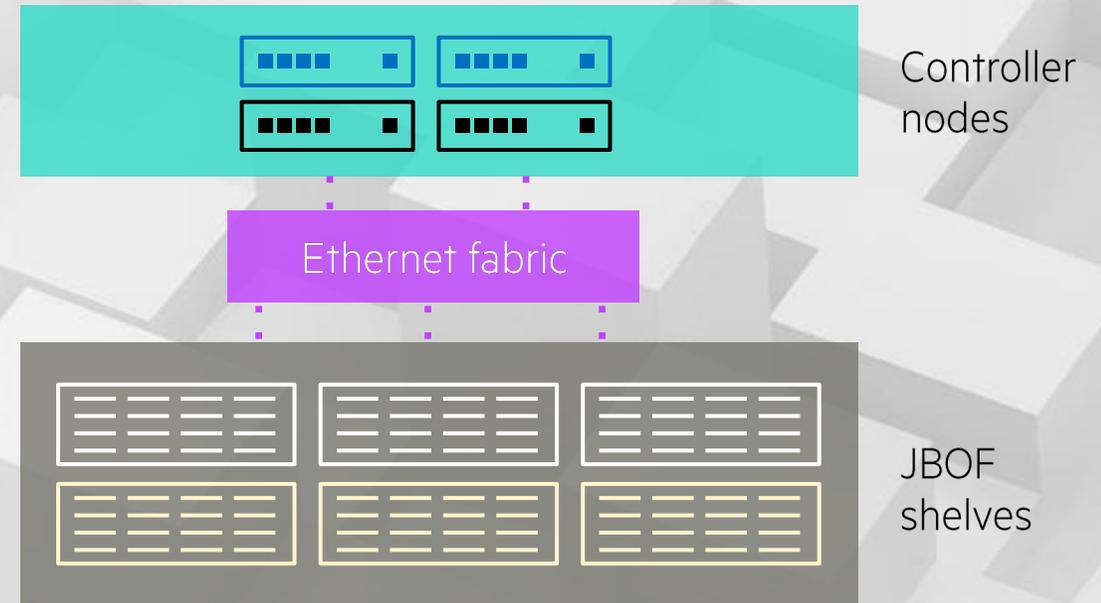
overprovisioning

40%

cost savings¹

45%

energy reduction²



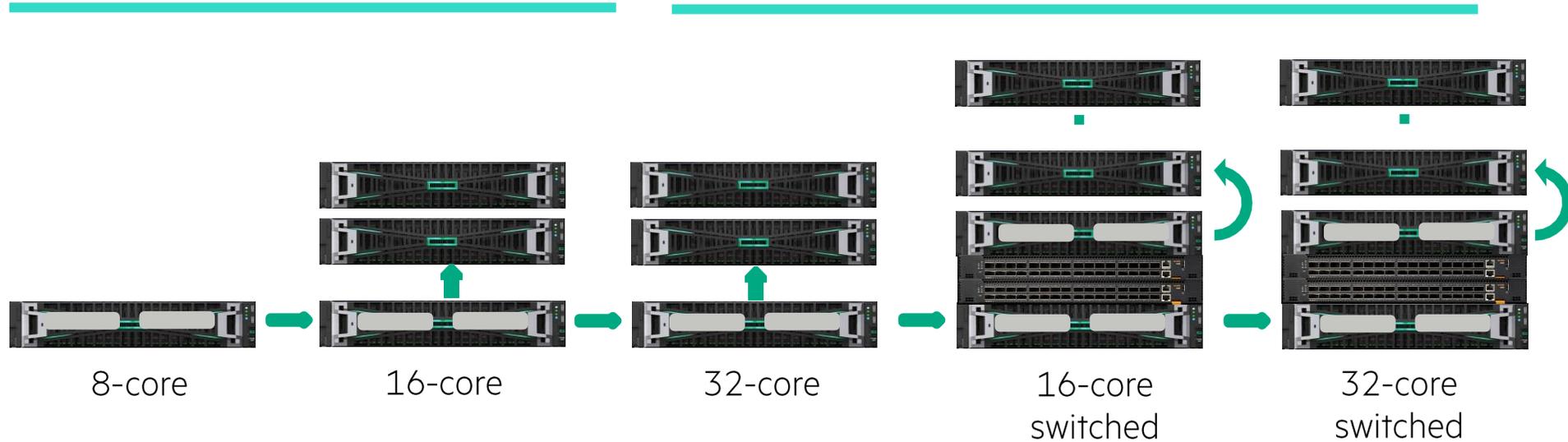
**Modular, multi-protocol storage architecture
for block and file in the same OS**

- 1 Based on internal use case analysis, HPE Alletra Storage MP reduces total cost of ownership (TCO) versus non-disaggregated architectures by allowing organizations to avoid over-provisioning
- 2 Based on internal analysis comparing power consumption, cooling requirements, and energy efficiency when transitioning from spinning disk to HPE Alletra Storage MP's all-flash architecture.

Non-disruptive upgrades with data in place

Start **small**

Scale **up**, Scale **out**



Efficient scaling

No installing in “node pair”
Independent scaling—
compute & capacity

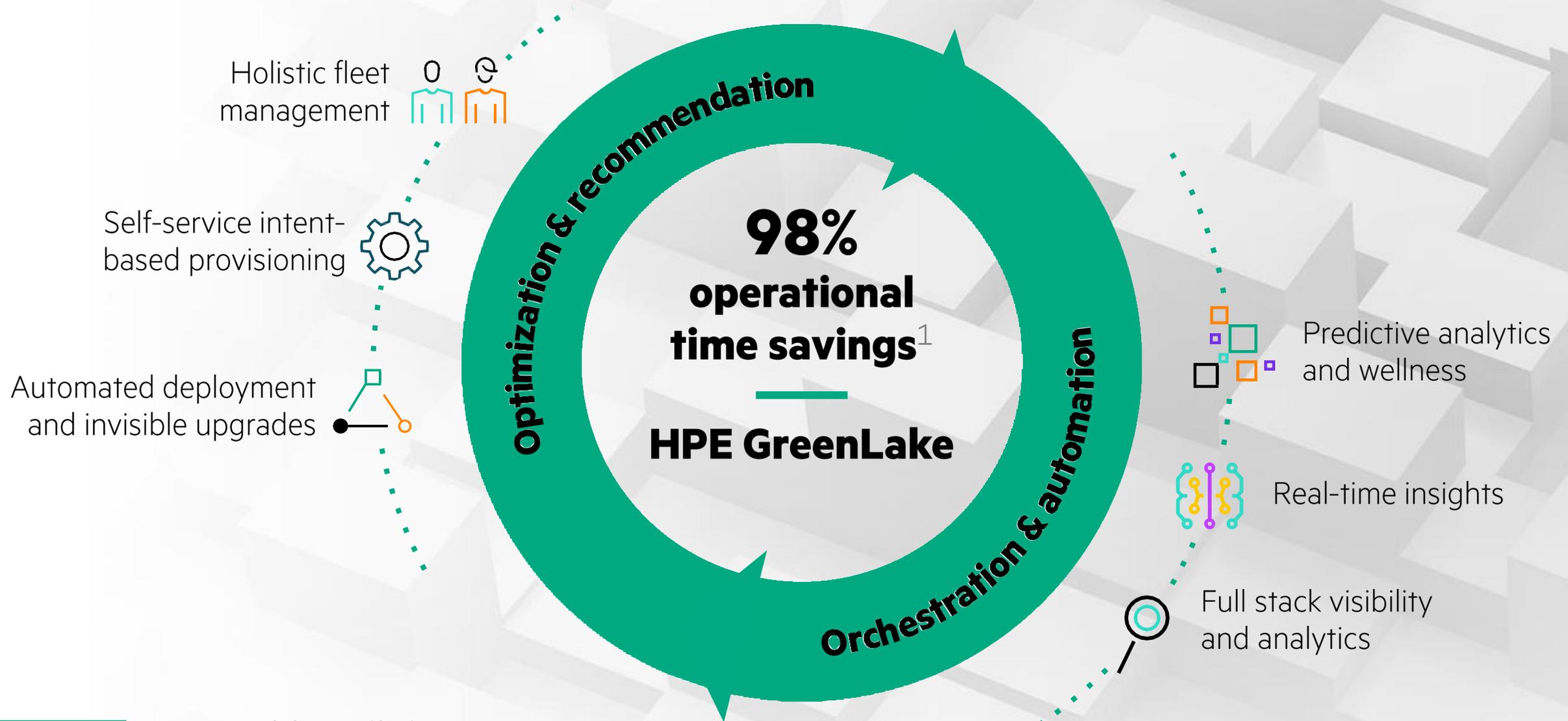
Simple refresh

Zero wasted investment with
data in place upgrades

No disruptions

Upgrading is transparent
to your apps and to you

Simplified management with AI-managed cloud experience



¹ Comparison of infrastructure lifecycle management of HPE Alletra vs. ESG Market Research

Comprehensive defense against cyber threats



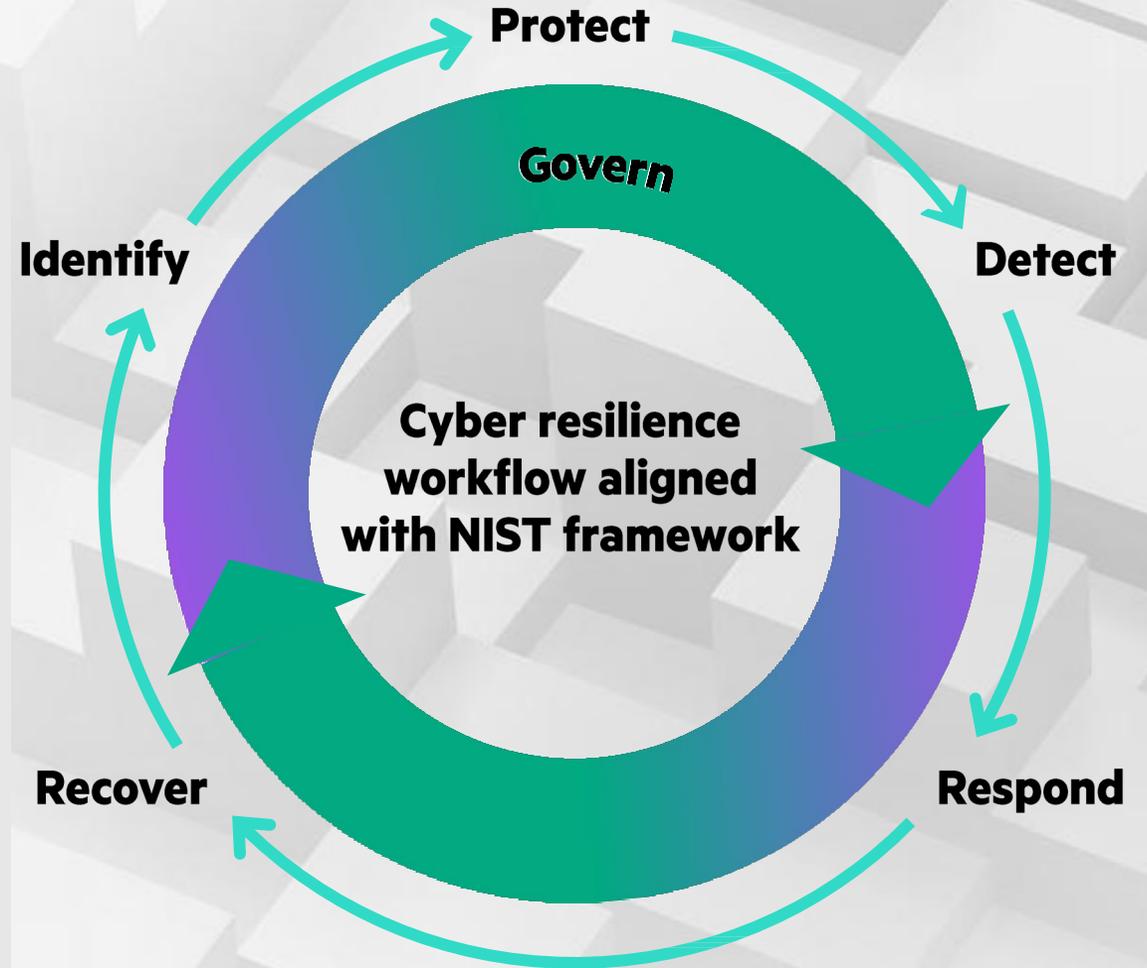
Native ransomware detection and recovery

- **Detect anomaly** indicative of malicious encryption at array level
- **Recover from immutable snapshots with Virtual Lock**



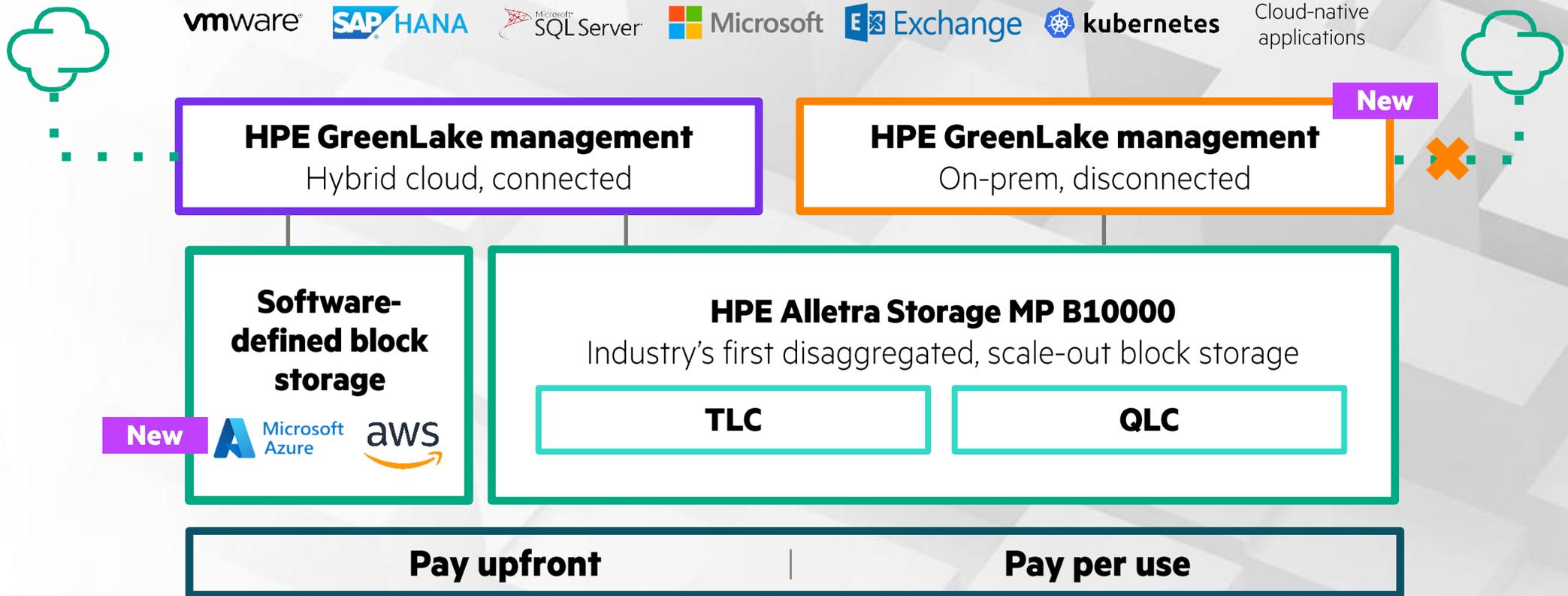
Dual layered detection combined with Zerto

- **Inline, real-time detection during replication at VM layer**
- Near-instantaneous recovery points



One platform, one consistent modern cloud experience

Simplified intuitive cloud experience for any app and any environments



Transform ownership with HPE Timeless Program



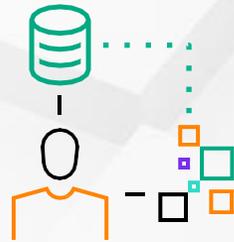
Acquire with confidence

Run without surprises

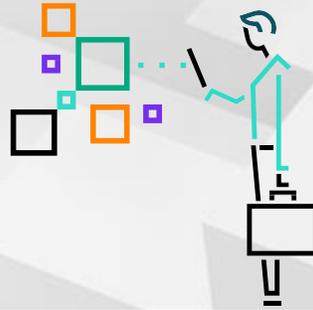
Grow with ease



30-day satisfaction
SLA guarantee



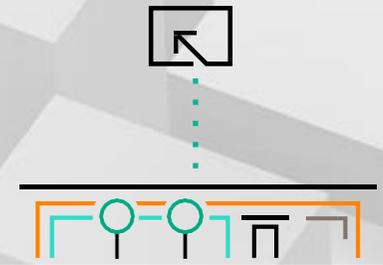
HPE StoreMore
SLA guarantee



100% data availability
SLA guarantee



All-inclusive software
subscription

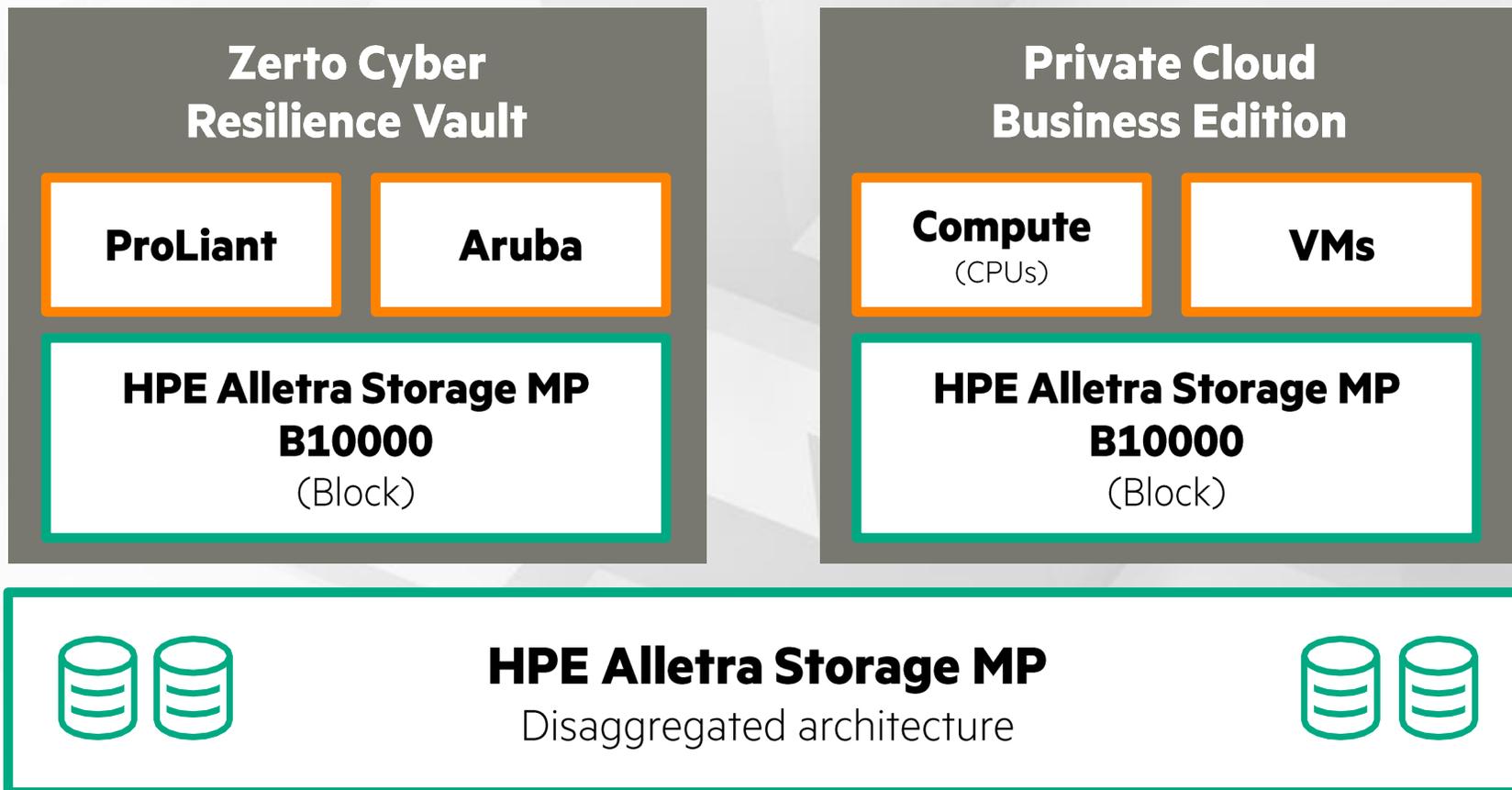


No forklift
upgrades

Up to **30%** lower TCO

Free non-disruptive controller upgrade

HPE Alletra Storage MP B10000 in HPE Private Cloud solutions



Accelerating customer outcomes

Increase speed

80%

shorter time to deliver projects³

Boost agility

98%

operational time savings¹

Consistent experience

One

cloud experience everywhere

Accelerate innovation

Reduce Ops cost

79%

lower operating cost¹

Proactive support

86%

problems identified and fixed with AIOps¹

Invisible upgrades

Zero

downtime with no forklift upgrades

Simplify operations

Lower HW costs

30-40%

CAPEX savings⁴

Right sized scaling

Zero

overprovisioning with Intent Based Deployment and disaggregated architecture

Sustainable

45%

annual reduction in CO₂e

Optimize resources

¹ Comparison of infrastructure lifecycle management of HPE Alletra vs. ESG Market Research

² HPE 100% Availability Guarantee, HPE Alletra 9000

^{3,4} A commissioned study conducted by Forrester Consulting, The Total Economic Impact of HPE GreenLake, May 2022

HPE leadership

Industry's first

disaggregated scale-out block storage¹

Most advanced

AIOps for infrastructure

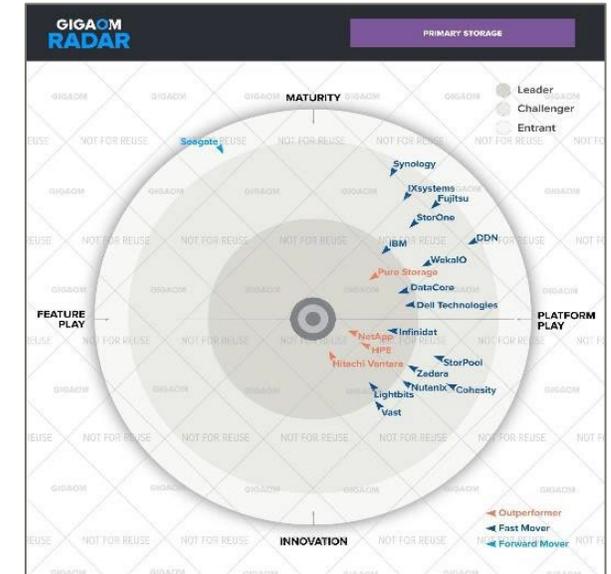
Ultimate peace of mind

with 100% data availability guarantee



Gartner

A **15 times** Gartner Magic Quadrant™ Leader²



An **outperformer** in GigaOm Radar for Primary Storage 2024³

1 [HPE Storage Substantiation](#)

2 Gartner, Magic Quadrant for Primary Storage Platforms, Jeff Vogel, Chandra Mukhyala, 17 September 2024; Gartner, Magic Quadrant for Primary Storage, Jeff Vogel, Joseph Unsworth, Chandra Mukhyala, 17 October 2022. (2023-2019); Gartner, Magic Quadrant for General-Purpose Disk Arrays, Stanley Zaffos, Roger W. Cox, Valdis Filks, Santhosh Rao, 8 November 2018. (2014-2018); Gartner, Magic Quadrant for Solid-State Arrays, Valdis Filks, John Monroe, Joseph Unsworth, Santhosh Rao, 23 July 2018. (2015-2018). HPE was recognized as HP until 2015 in the reports above.

3 GigaOm Radar for Primary Storage v5.0, Whit Walters, Dec 13, 2024.

Cyber attacks

It's a matter of
“when,”
not “if”!



HPE Alletra Storage MP B10000

Ransomware In-Line Detection, Mitigation and Recovery

- Realtime in-line write data scanning
- AI anomaly detection technology developed by HPE and Zerto
 - Multiple independent detection algorithms decreases the possibility of misses and false positives
 - Evolves over time (AI-based learning and tuning)
- Alerts are forwarded to DSCC
- DSCC provides workflows to decide whether an action is necessary or not
- There is a single global, customer selectable confidence level
 - Medium – Default confidence level
 - High – Decreases the sensitivity and may cause the ransomware detection engine to delay the reporting of, or completely miss, the presence of actual ransomware
 - Low – Increases the sensitivity but could lead to excessive numbers of false positive notifications
 - The level can be changed by the “RwareConfidence” system parameter
- Anomaly detection is supported with standard Virtual Volumes and VVOLs
 - Enabled and processed per VVOL (rware / no_rware policy) `setvv -pol`
 - Enabled per-VV Family, per-VV Set, or on the entire Storage System
- Leverages the Virtual Lock feature for easier data recovery
- Supported in air-gapped installations (no internet access required)
- Impact on storage performance is negligible (< 5%)





Thank you

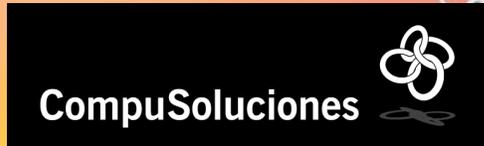
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www.s4it.com.mx

CDMX: (55) 8526 2900

Querétaro y Bajío: (442) 388 5900

contacto@s4it.com.mx

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