

Hewlett Packard  
Enterprise

# 2024 HPE DID

## Data services Innovation Day

일시 2024년 6월 11일(화), 10:00 ~ 17:30

장소 포시즌스 호텔, 그랜드볼룸 (3F)

# Data Unleashed – HPE Storage Innovation and Vision

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Justin Chiah  
Vice President and General Manager  
APAC Storage and Data Services

Jun 11, 2024

# Thank You Sponsors

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Platinum  Qumulo

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Gold    WEKA

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Silver   COMMVault



# HPE Hybrid Cloud

## TRANSFORM

through data

- Storage and Data Protection
- Data Fabric
- AI/ML & Analytics

## MODERNIZE

IT infrastructure

- Private Cloud
- HPE GreenLake Flex Solutions

## SIMPLIFY

hybrid cloud operations

- OpsRamp
- Compute, Network & Storage Management

## HPE GreenLake Platform

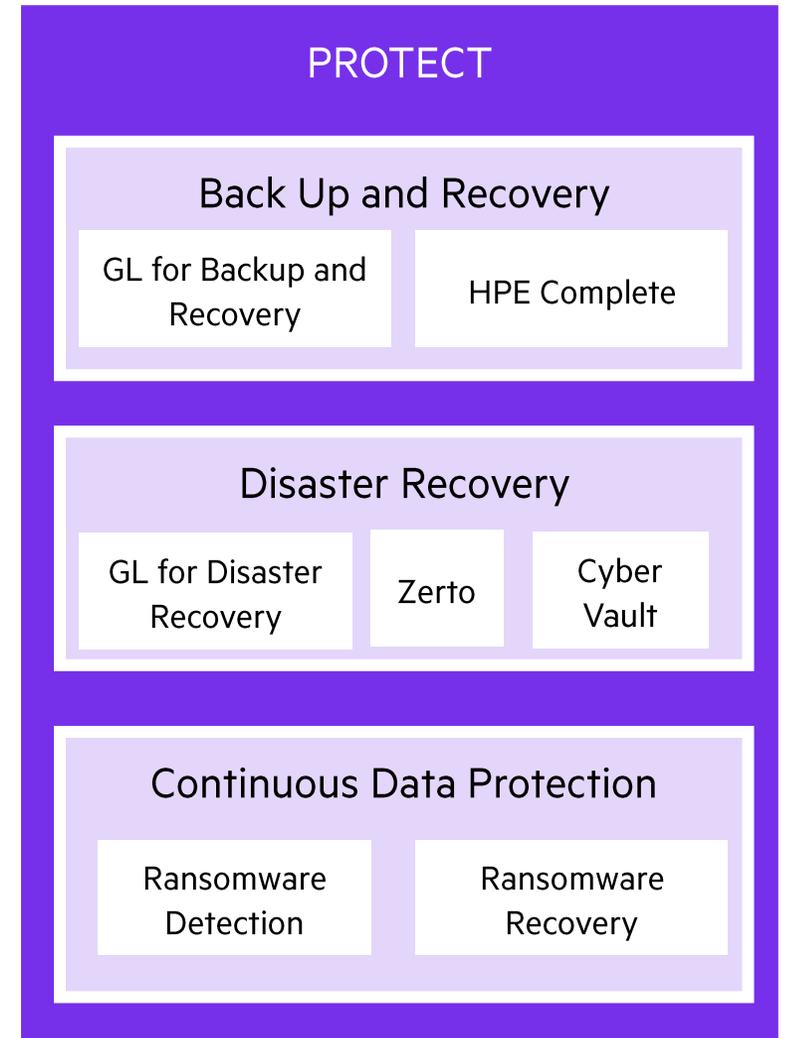
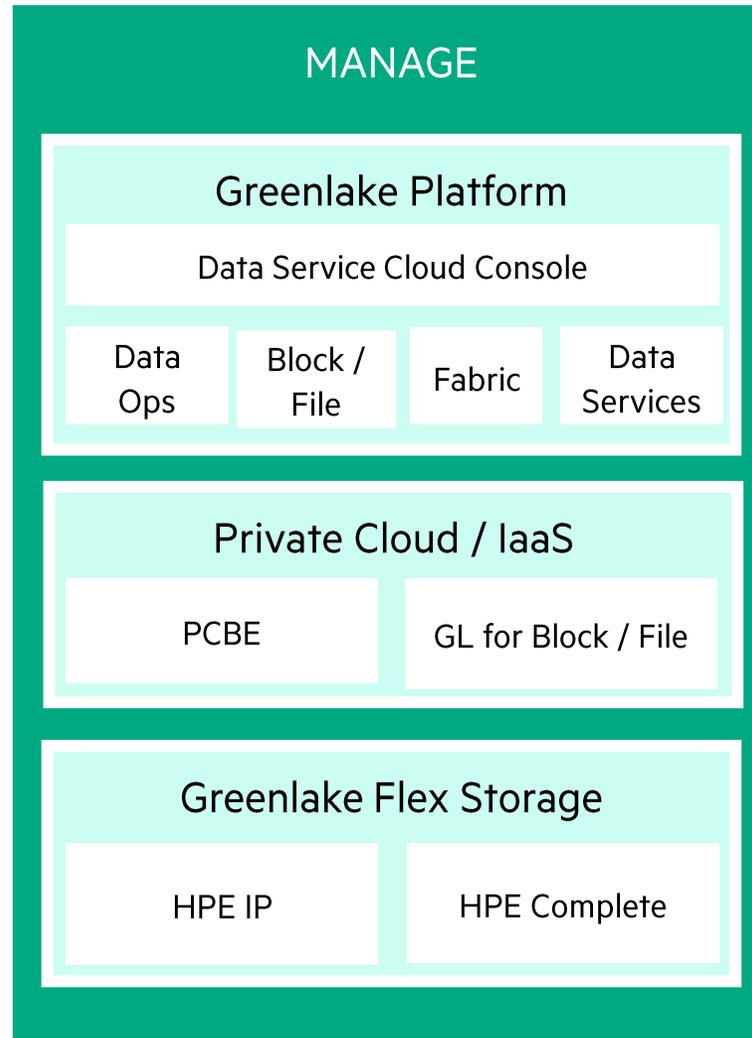
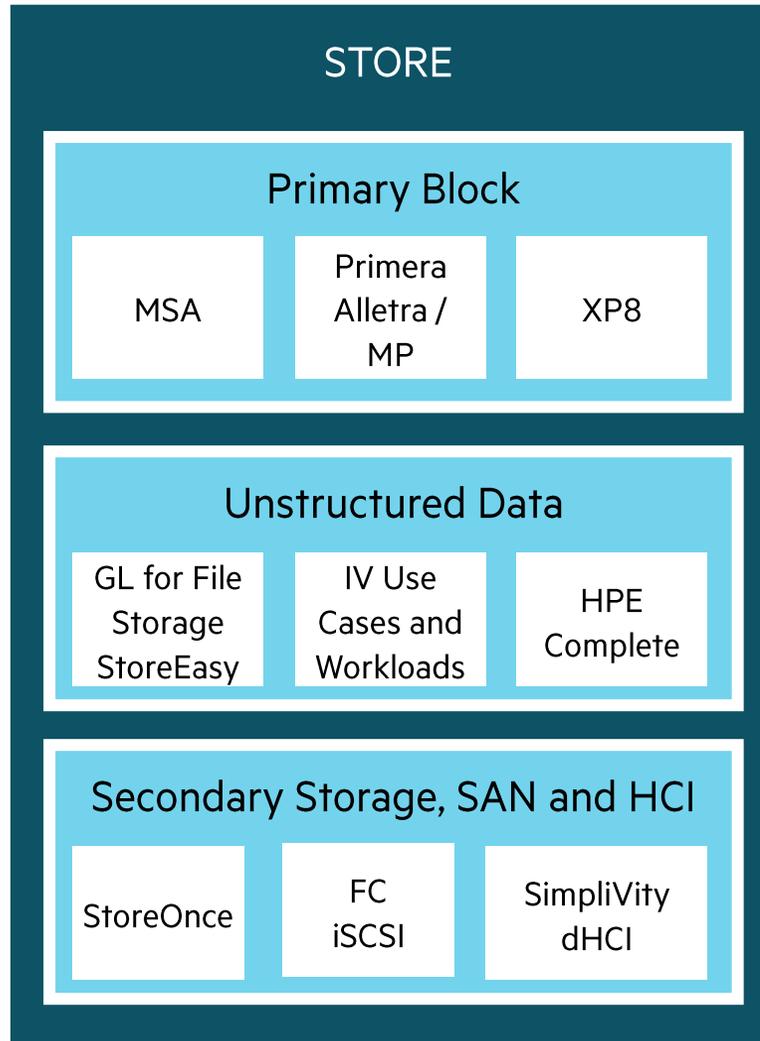
Unified cloud experience

Consumption analytics

Sustainability

AIOps

# HPE Storage and Data Services | Solutions



# HPE New Announcements on May 15 2024

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## HPE builds foundation for next-gen data management with software-defined storage and AI-driven automation

*New hybrid cloud block storage, private cloud offerings and storage investment protection enable enterprises to transform through data insights, automation and AI on the HPE GreenLake Platform*

1. HPE launches release 4 of HPE GreenLake for Block Storage built on Alletra MP to advance journey to one AI-powered hybrid cloud storage platform

2. HPE brings software-defined enterprise-class hybrid cloud storage to the public cloud with AWS

3. HPE introduces new Timeless program to protect and future-proof your storage investments

4. HPE Alletra Storage MP and HPE SimpliVity Gen 11 now supported in HPE GreenLake for Private Cloud Business Edition



# HPE GreenLake for Block Storage

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The bottom of the slide features several overlapping, wavy lines in various shades of teal and green, creating a sense of motion and depth. A small, empty rectangular box is located in the bottom left corner.

# HPE GreenLake for Block Storage with Alletra Storage MP

Delivers a

## Purpose built, cloud native storage solution for all workloads, from edge to cloud



### High performance, scale-out storage

a flexible dis-aggregated architecture that overcomes inefficiencies of legacy storage delivering superior value

### Intuitive AI Ops powered Cloud Operations

that revolutionizes storage management, operational and support experience with federated and hybrid AI engine

### True Hybrid cloud Platform

one experience across cloud and on-prem for all infrastructure needs with ability to integrated value added services for data protection





# HPE GreenLake for Block Storage built on Alletra MP

**NEW**

Release 4: What's New

## Better performance, Better economics

### Easily scale to meet evolving workload demands

- **2X** more capacity<sup>1</sup> with up to 16 JBOF expansion shelves
- Start small, scale big – from **15.36TB to 5.6PB<sup>2</sup>**
- Maximize efficiency and cost savings with **granular capacity and performance upgrades<sup>3</sup>**

## AI Ops powered management & support

### Go faster with AI-driven cloud operations

- Eliminate guesswork with enhanced and extended **AI-based performance reporting and analytics**
- Remove risk and complexity via **quick, non-disruptive data migration**
- Monitor, observe, and reduce energy consumption with **Sustainability Insight Centre** support

## Run any app without compromise

### Accelerate mission-critical apps

- **Unlock the full power** of HPE GreenLake Block storage in Cloud (AWS)
- **Built-in global data protection** – Snapshots, Replication, and backup
- **Advanced data services** – native GLCP and/or 3<sup>rd</sup> party through common APIs

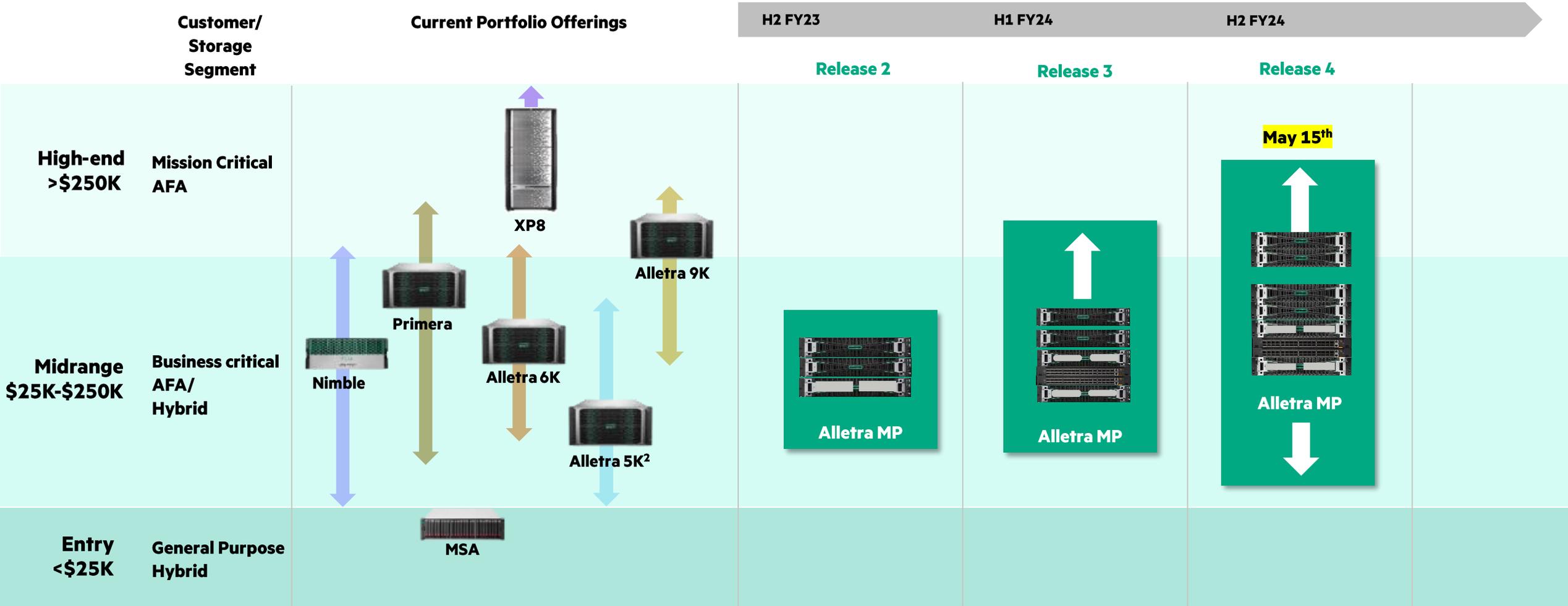
<sup>1</sup> Compared to existing fully loaded switched configuration (4 node controller with 8xJBOFs)

<sup>2</sup> Fully loaded configuration (16 xJBOFs) with 384 x 15.36TB NVMe SSDs.

<sup>3</sup> Upgrade drives in 2-drive increments and JBOFs and controller nodes in increments of one

# HPE GreenLake for Block Storage | Journey to ONE

## HPE GREENLAKE FOR BLOCK STORAGE



# HPE GreenLake Block Storage for AWS

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**NEW**

# HPE GreenLake Block Storage for AWS

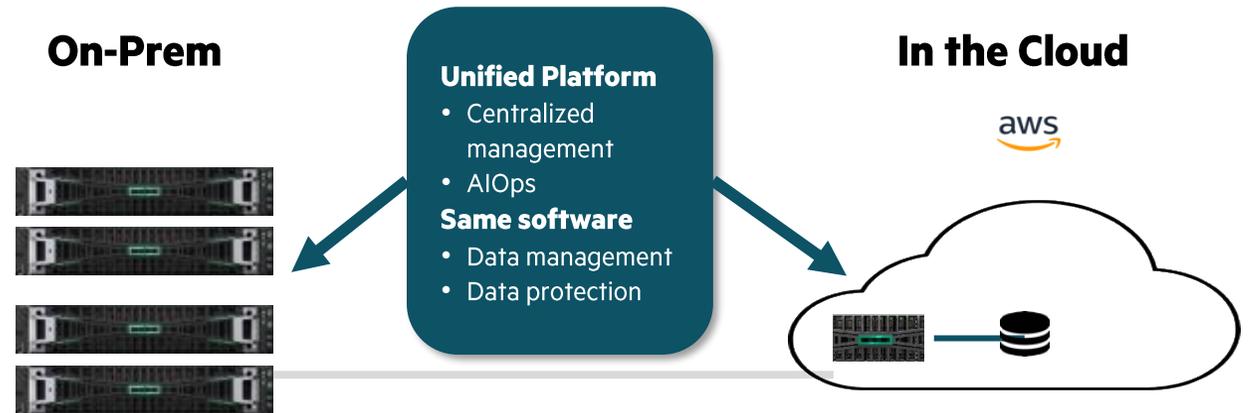
Enterprise-grade cloud block storage

Industry's first disaggregated, scale-out block storage offered as SDS for a true hybrid cloud experience.

**One experience - everywhere**  
with consistent AI-driven platform experience across hybrid cloud

**Seamless data mobility**  
enabling hybrid cloud backup, DR, test/dev use cases

**Run any app in the cloud**  
without limitations

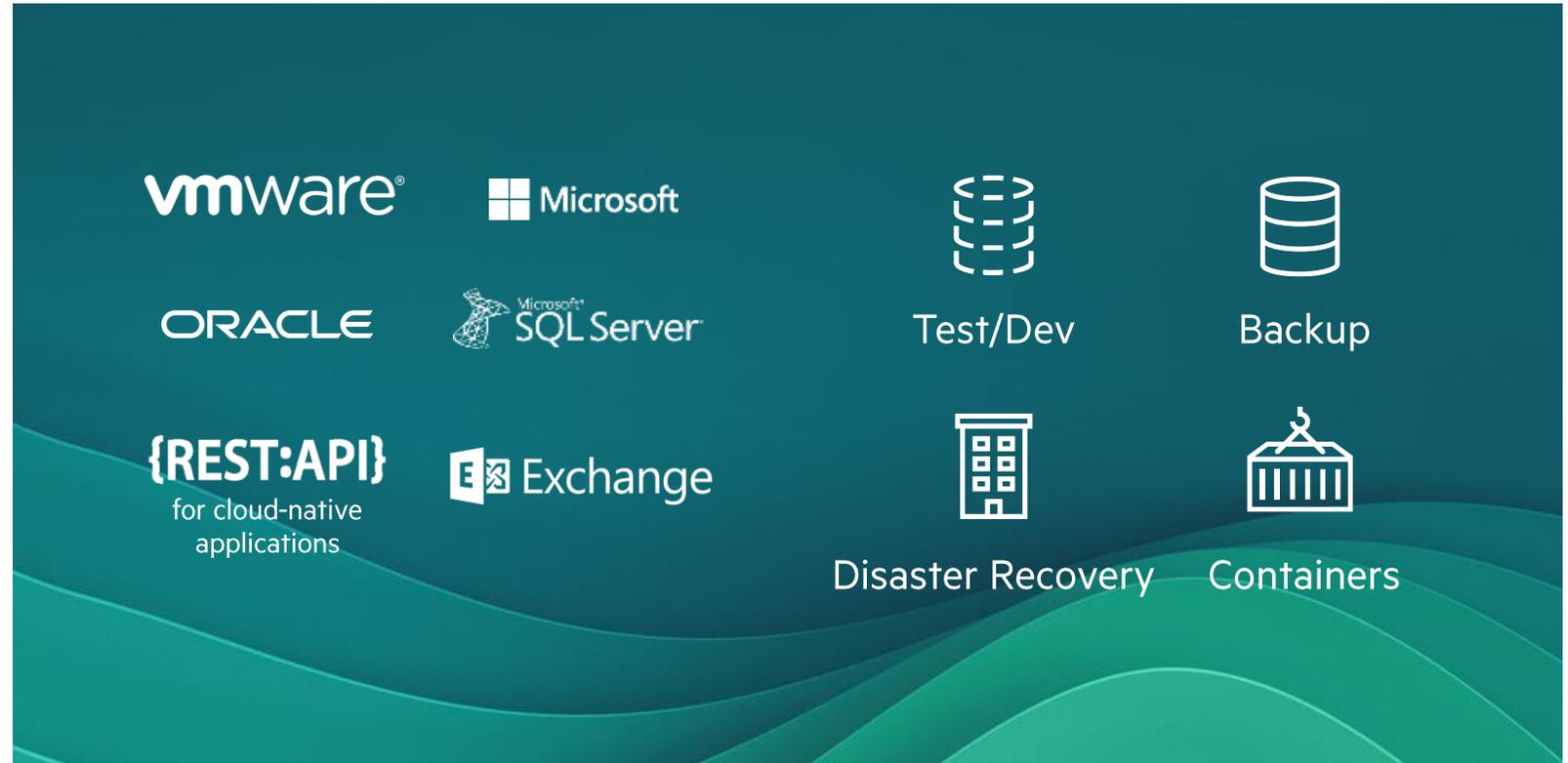


# Move data where it needs to be with seamless mobility

Enables hybrid platform native use cases

## One platform

across Hybrid Cloud  
Infrastructure



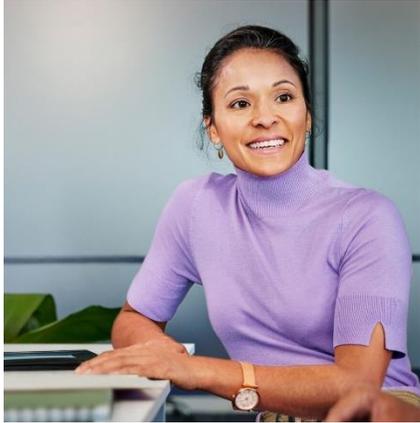
# HPE Timeless Storage - HPE GreenLake for Block Storage with Alletra MP

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NDA until May 14th at 8 a.m. CT

**NEW**

# HPE Timeless Program | Transformed ownership



**30-Day  
Satisfaction  
Guarantee**

**Try for 30 Days  
with No Risk**



**Store More  
Guarantee**

**Best-in-Class  
Data Efficiency**



**100% Availability  
Guarantee**

**Best-in-class  
Standard Benefit**



**All-inclusive  
Software**

**Always improving  
data services**



**No Forklift  
Upgrades**

**Avoid costly rip-&-  
replace cycles**



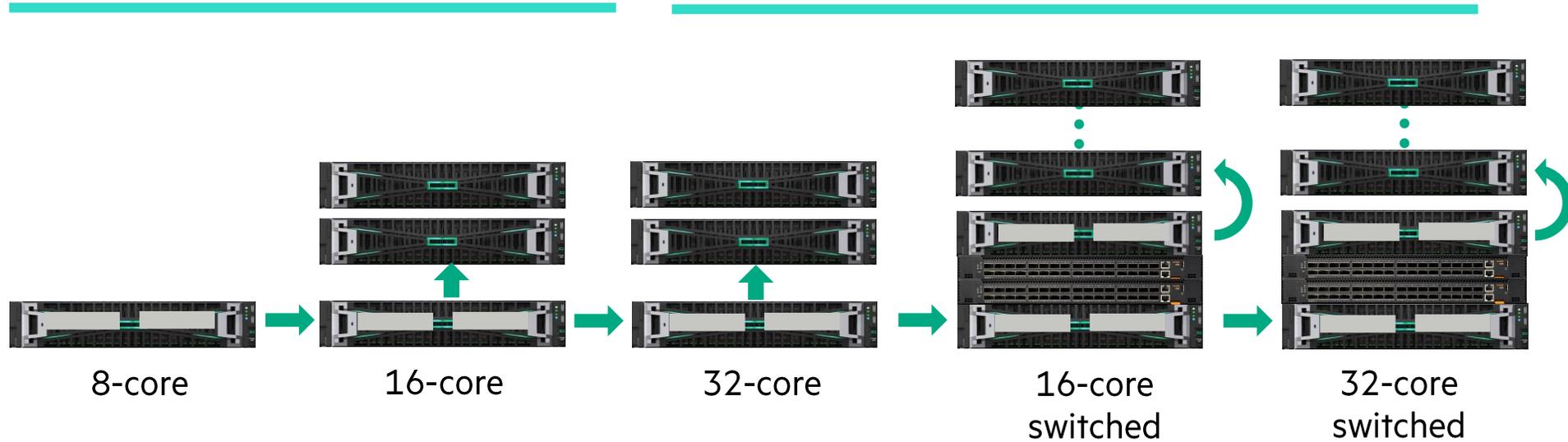
**Investments are Timeless**



# Built on a unique timeless architecture

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



# **AI Ops powered management & support**

NDA until May 14th at 8 a.m. CT

# Full Stack Self Driving - AIOps to accelerate all workloads

## Performance Analytics

- Headroom
- Workload Drifts
- Latency Assessments
- Anomaly Detection
- Bully Victim Identification
- Resource Contention Detection
- Upgrade Recommendations

## Workload Modeling & Optimizer

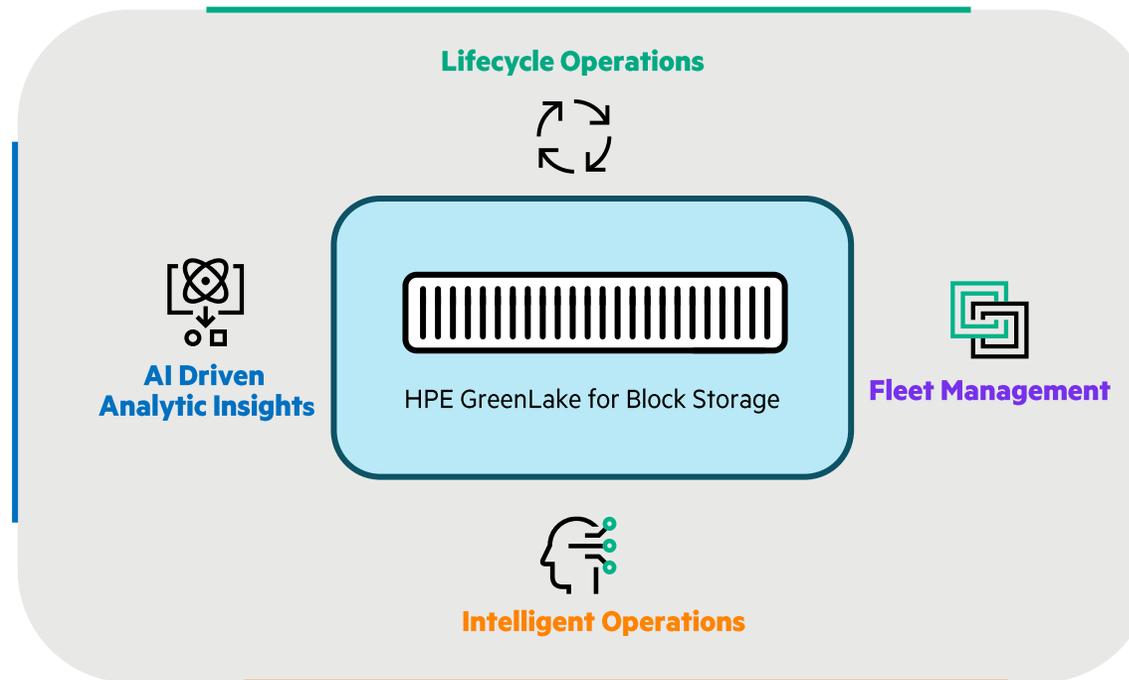
- Workload simulator
- Recommendations on planning, optimization on usage
- Predictive headroom management
- Capacity usage insights
- Future capacity forecasting
- Workload and Hardware Planner

## Full Stack Visibility and Analytics

- VMWare and Containers
- Applications (OpsRamp)

## Orchestration and Consistent APIs

- Full stack automation to provision and manage resources



## Fleet Management

- Zero touch activation and setup
- Exception based management
- Heterogeneous data model with simplified homogenous experience
- Migration planning & Insights

## Data Protection

- AI assisted Protection Policies
- Insights on protection and recommendation
- Replication partner identification
- Optimal replication and snapshot scheduling

## Full Stack Operations

- Intent based app provisioning
- Workload movement
- Customizable IO patterns
- Workload resource predictions

## Autonomous Operations

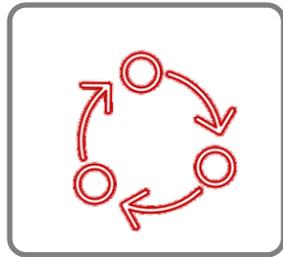
- Predictive space reclamation
- Automated QoS management



# AIOps for HPE Alletra MP

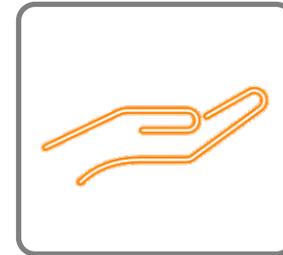
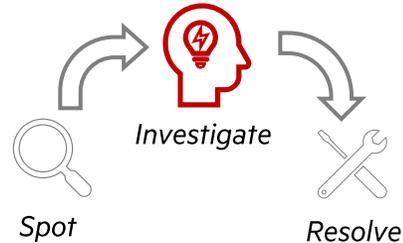
## Revolutionizing Storage Management and Proactive Support Experiences

A federated and hybrid AI engine, fueled by a global telemetry data fabric, empowers unparalleled insights across entire infrastructure



AIOps for  
HPE Storage

### HPE GreenLake for Block Storage with Alletra MP



Gen AI for  
Predictive Support



Live, Always-On  
Monitoring



Global Telemetry  
Data Fabric



Hybrid AI Engine



**Gen AI** powered Support  
Ops. Automation



# **HPE GreenLake for PCBE with Alletra MP/Simplivity Gen 11**

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# HPE GreenLake for Private Cloud Business Edition:

The evolution of HPE hyperconverged solutions

As of July 2024

## HPE GreenLake Platform

Single consistent management experience across private and public cloud  
Easy integration of data management and protection services

## HPE GreenLake for Private Cloud Business Edition with:

### HPE SimpliVity



**New: DL Gen11 Support**

All-in-one HCI for general purpose  
edge to core workloads

### HPE Alletra dHCI



**New: Alletra Storage MP**

Disaggregated HCI  
for mixed workloads at scale

### Public Cloud



# HPE Data Services & Storage Vision and Innovation

Cloud Data Services / Cloud Infrastructure Services

**HPE GreenLake Platform**  
<https://greenlake.hpe.com/>  
**Data Services Cloud Console**

**AIOps**  
**HPE GreenLake Block Storage for AWS**



- HPE 3PAR
- HPE Nimble Storage
- HPE SimpliVity
- HPE Nimble dHCI

HPE Alletra 6000  
HPE Alletra 9000

Sep 2022  
HPE Alletra 5000

HPE Alletra MP

HPE GreenLake for Private Cloud Business Edition with Alletra 5000/6000

HPE Alletra MP Release 4  
HPE GreenLake for Private Cloud Business Edition with Alletra MP  
HPE GreenLake for Private Cloud Business Edition with SimpliVity Gen11

Cloud Native Data Infrastructure



# THANK YOU

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