



**Hewlett Packard  
Enterprise**

# **HPE Data First Modernization**

**Justin Chiah**

General Manager, APAC Data Services

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## Why Data First Modernization ? **THE CRUX OF THE ISSUE ...**

Digital transformation is incomplete without  
**DATA-FIRST MODERNIZATION STRATEGY**  
across edge to data center to cloud

### **Data Disarray**

Data remains spread in silos across a sprawl of multi-generational IT

### **Trapped Value**

Data is trapped in critical legacy systems

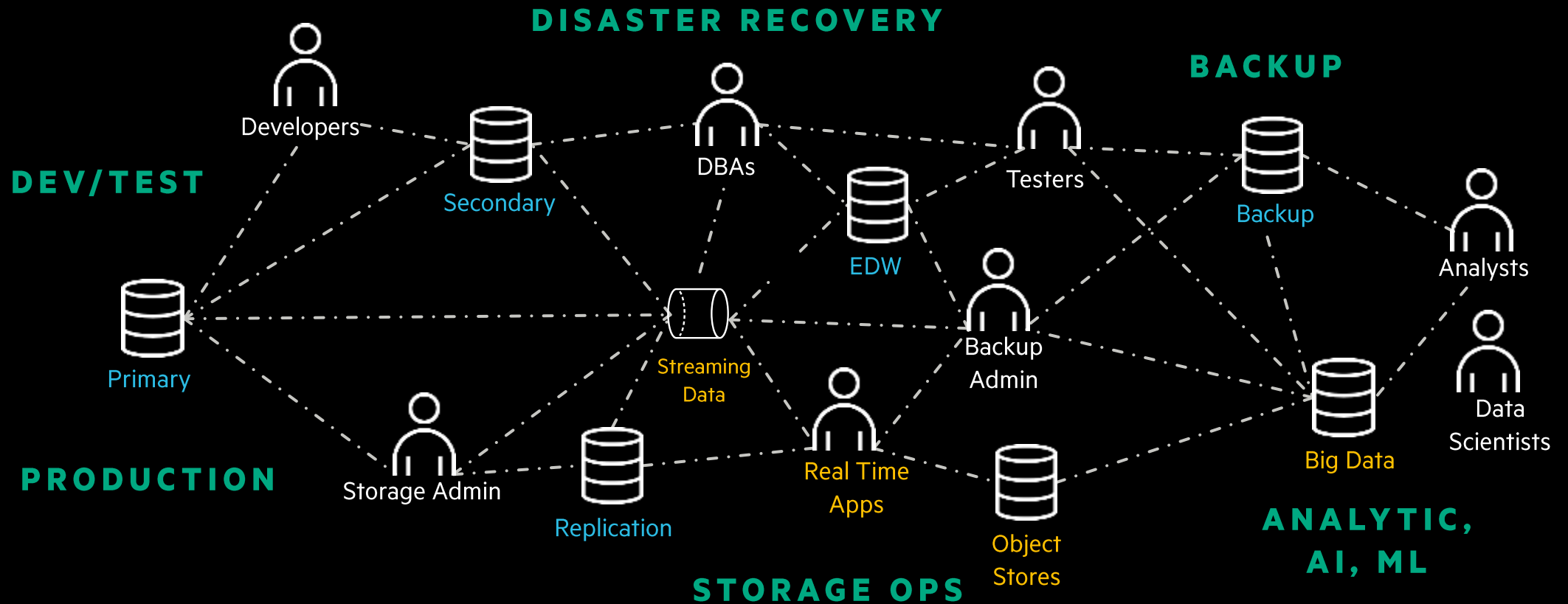
### **Edge Volumes**

Volumes of new data are being created at the edge

### **Migration Headache**

Moving data to the cloud before it can be used is an arduous roadblock

# Data management across data lifecycle adds complexity

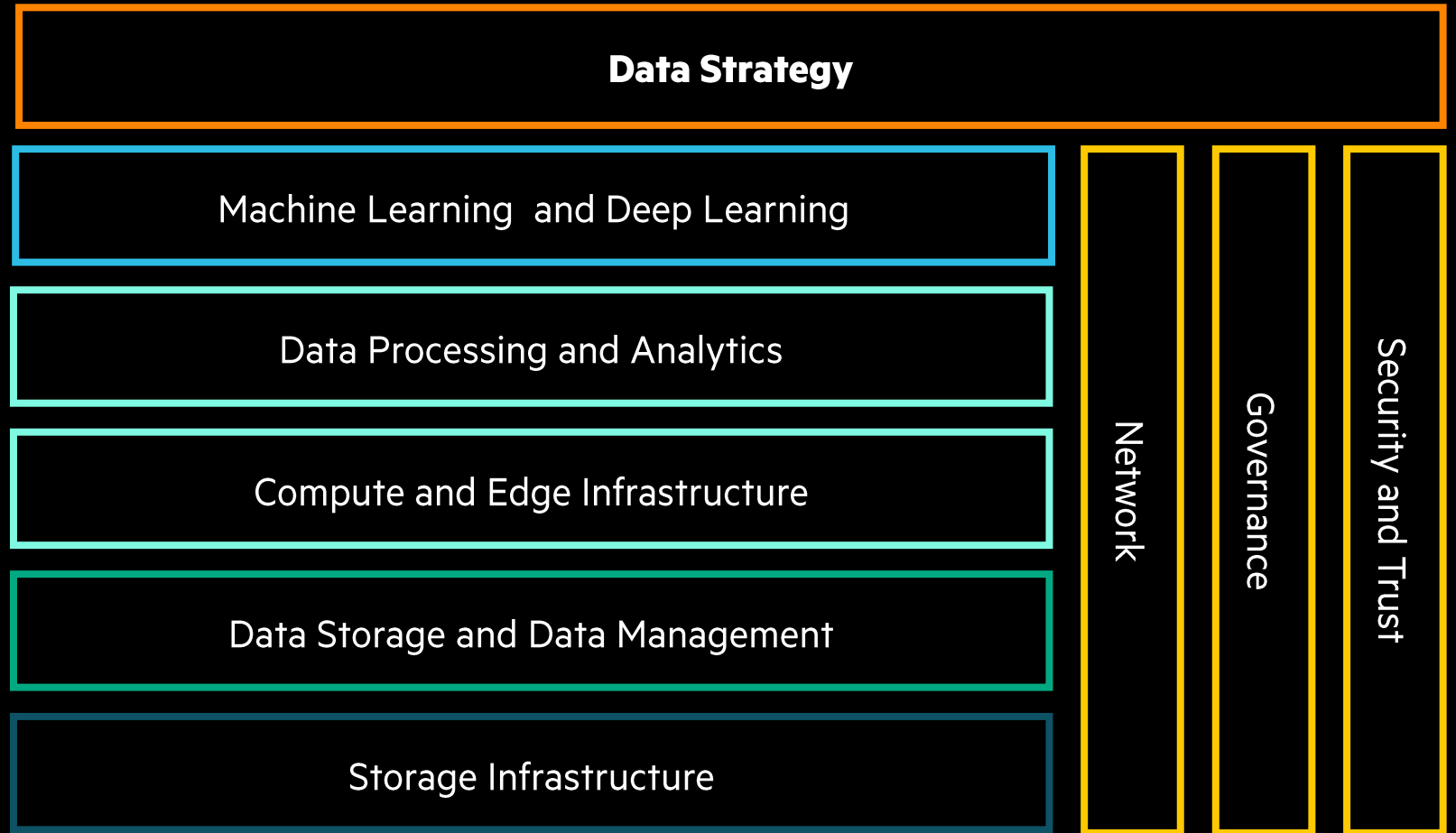


At a cost to **agility, innovation, and business risk**



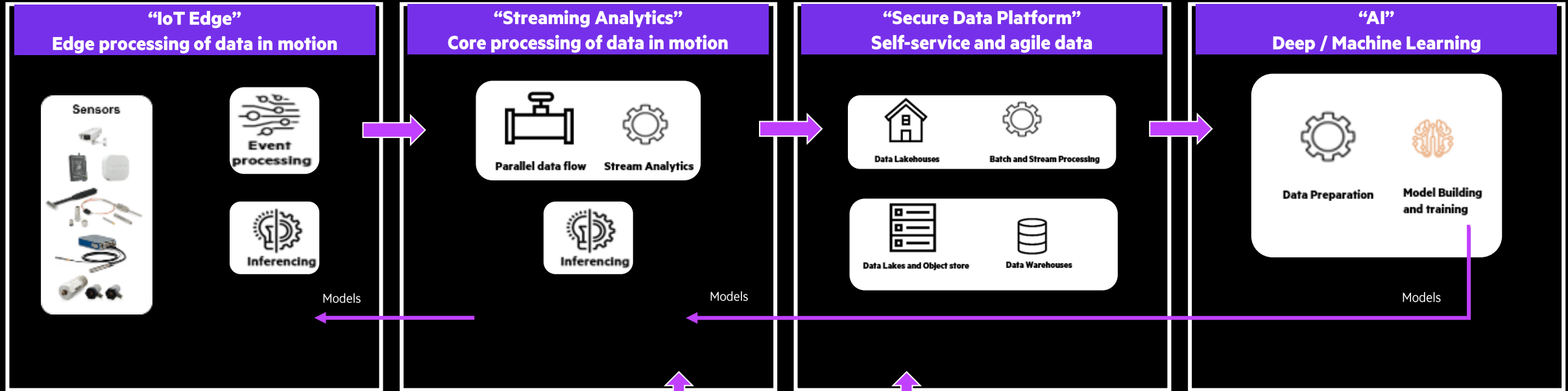
# Data platform which addresses current and future requirements

- **Self Service Data**
- **Easy to manage**
- **Streaming and Batch Analytics**
- **In place data sharing**
- **Decoupling of Compute and Storage**
- **Network Modernization to support Edge/Multi Cloud**



# End to End data Architecture

## Data Strategy , Governance and Security



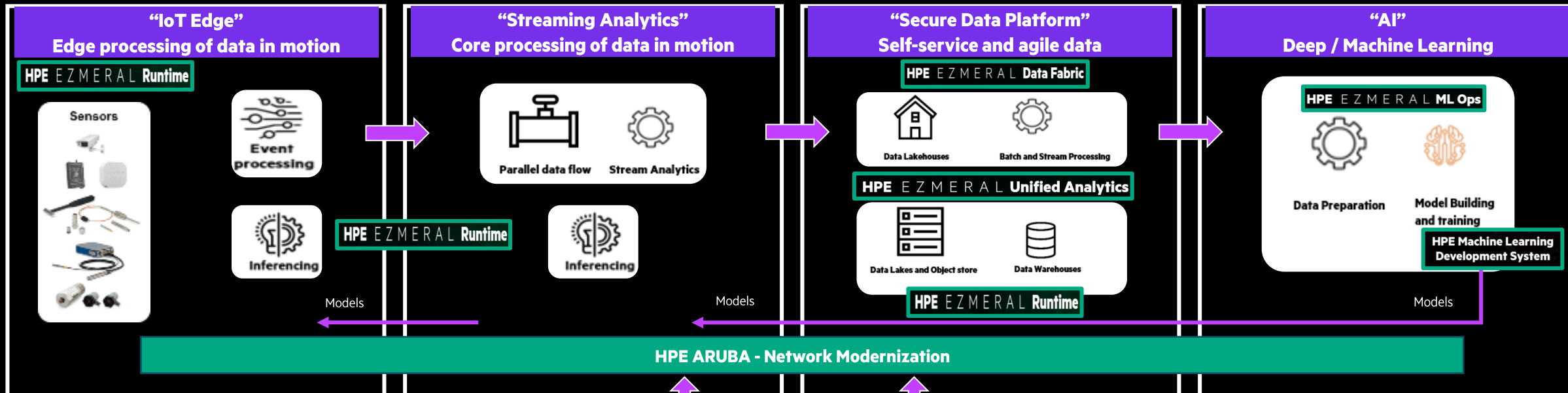
At the edge

On Premises or Cloud

# End to End data Architecture – HPE Solutions

## Data Strategy , Governance and Security

HPE DATA SERVICES - Simplified Data Management across Data Lifecycle



HPE ARUBA - Network Modernization



EL 8000



DL 380/ 360



HPE Alletra



Apollo 4200



HPE Alletra



HPE Cray XD



Apollo 6500

ADVISORY & PROFESSIONAL SERVICES

HPE GREENLAKE

At the edge

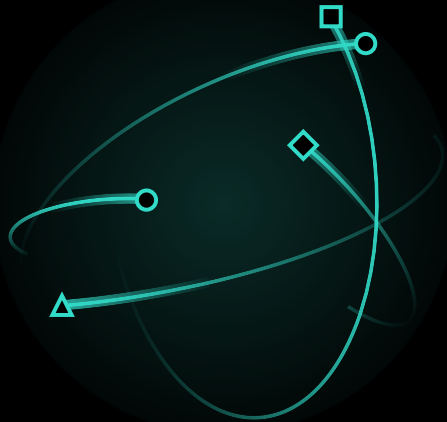
On Premises or Cloud

# CLOUD OPERATING MODEL ENABLES DATA-FIRST MODERNIZATION

## Modern cloud experience

Cloud first / cloud-only

Speed and agility



Apps that can easily move to the cloud, **already have**

## On-premises reality

Traditional IT

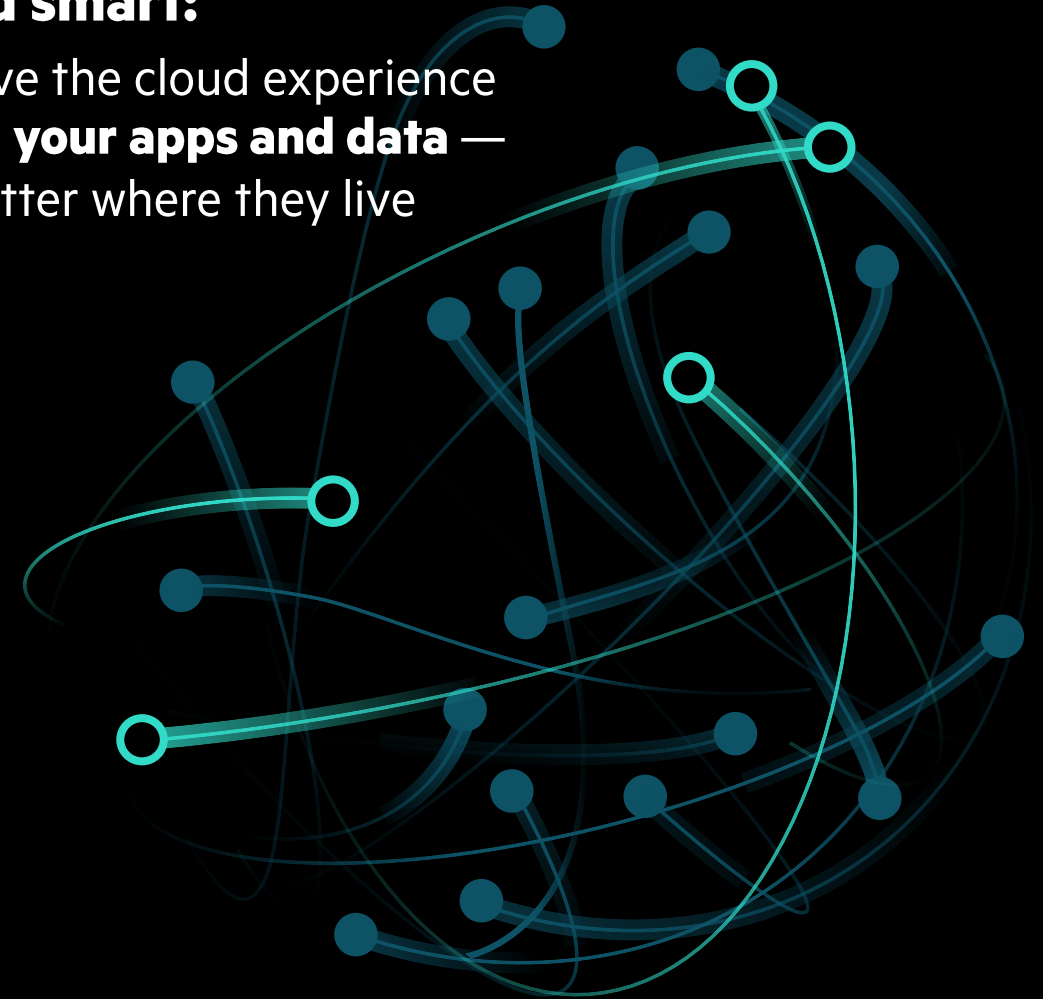
Data gravity, latency, dependency, compliance, security



However, **70%** of apps and data remain outside the public cloud for good business reasons<sup>1</sup>

## Cloud smart:

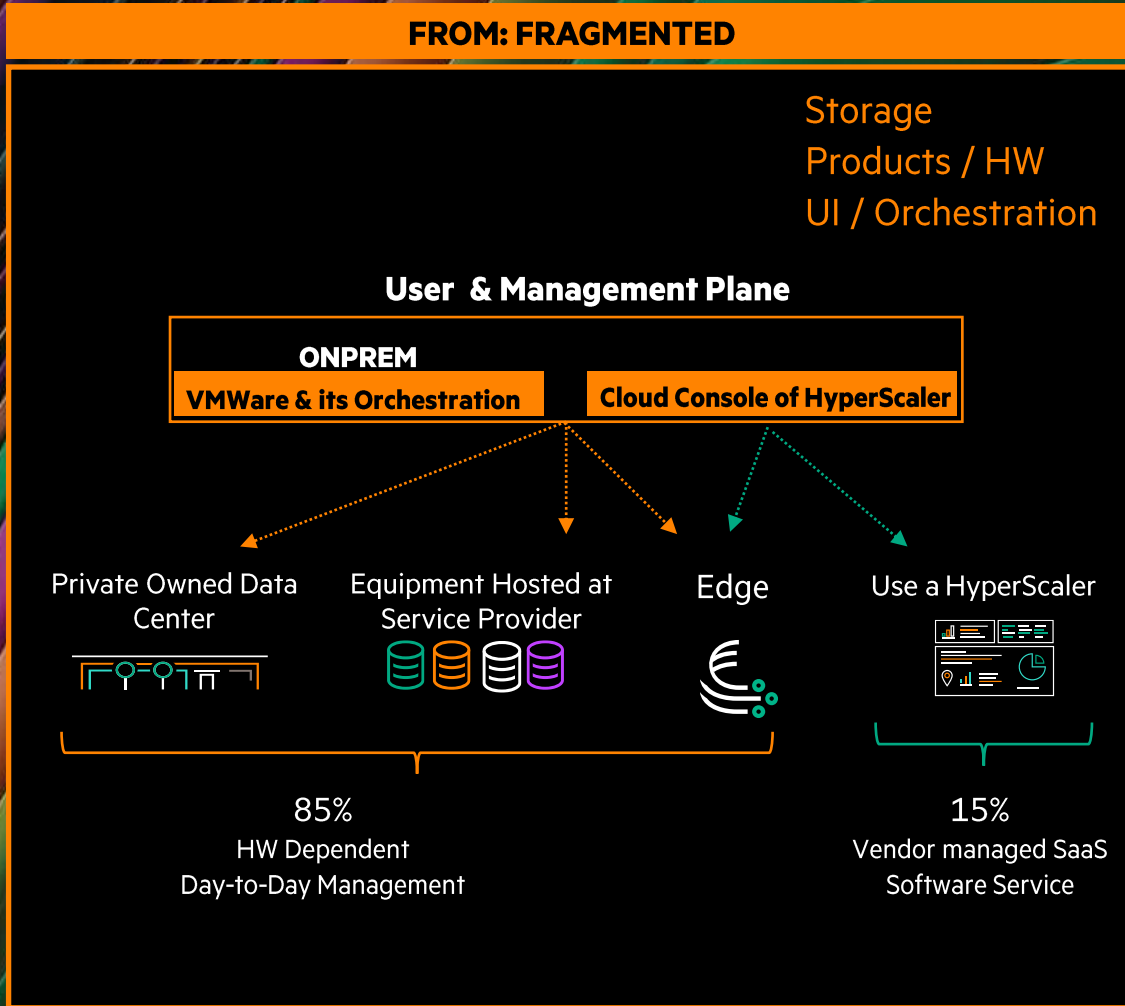
Achieve the cloud experience **for all your apps and data** — no matter where they live



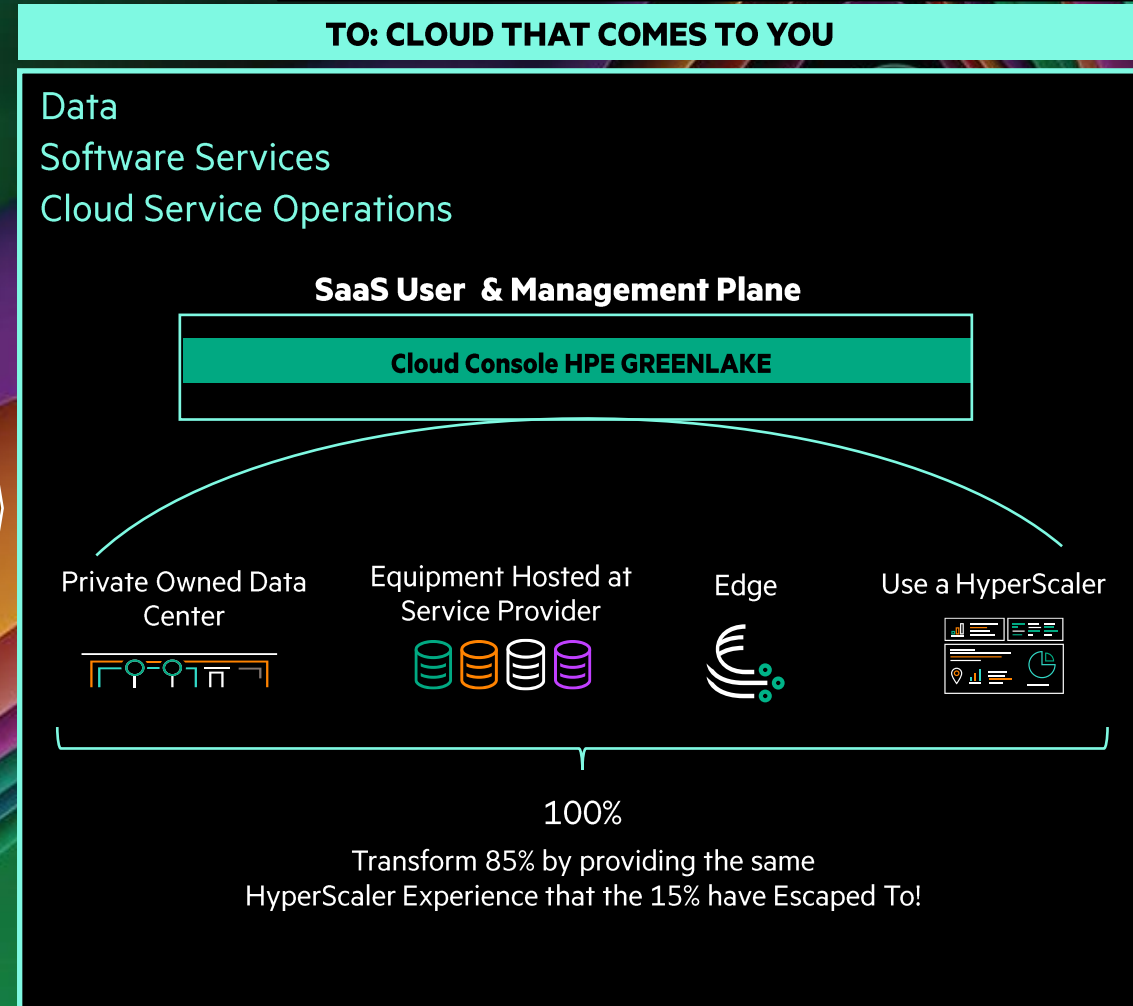
<sup>1</sup> IDC Cloud Pulse Q1 2020

# THE TRANSFORMATION MIND SHIFT - CONNECTED EXPERIENCE

## FROM: FRAGMENTED



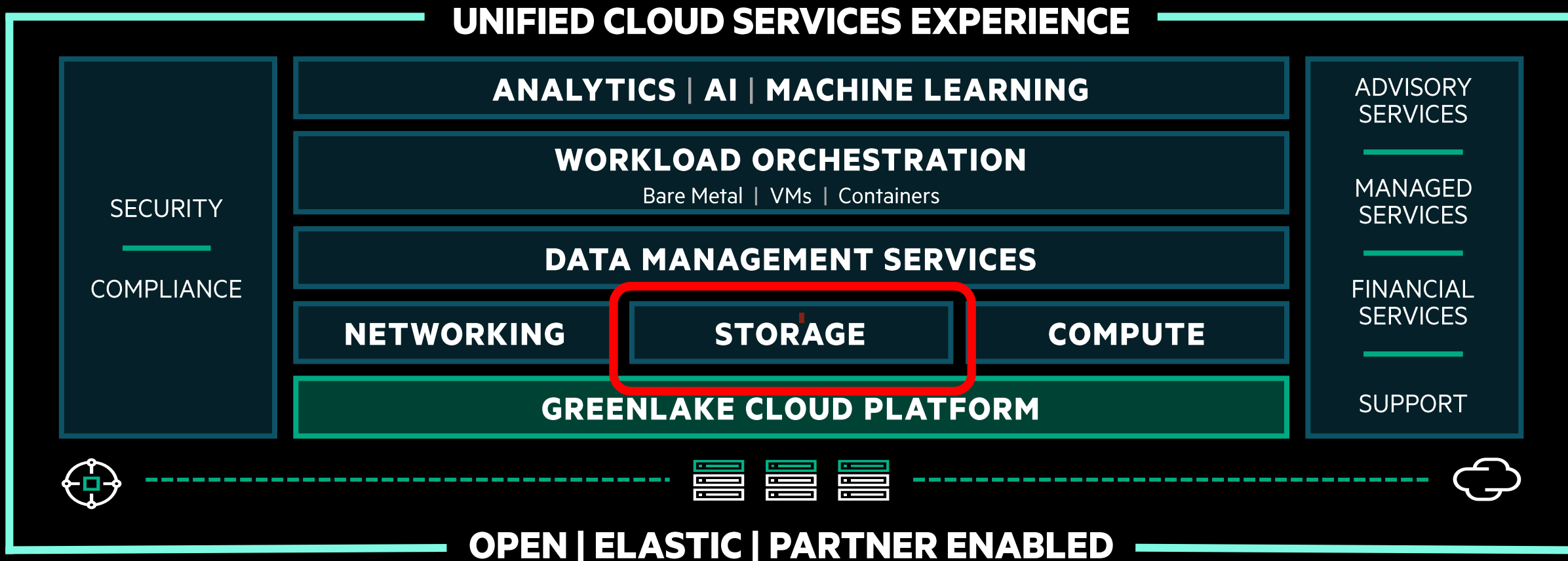
## TO: CLOUD THAT COMES TO YOU





# HPE GREENLAKE

## EDGE-TO-CLOUD PLATFORM



# Cloud Operating Experience

[common.cloud.hpe.com](https://common.cloud.hpe.com)

HPE GreenLake

Dashboard Applications Devices Manage

GreenLake Cloud Platform Demo

Switch Account

### Featured Applications

- Aruba Central**  
Network management system designed to simplify the deployment and maintenance of Aruba wired and wireless infrastructure at scale.  
[Launch](#)  
[View Networking Products](#)
- Data Services Cloud Console**  
Data Services Cloud Console.  
[Launch](#)  
[View Storage Products](#)
- Compute Ops Management**  
Securely manage your compute infrastructure, wherever it lives.  
[Launch](#)  
[View Compute Products](#)
- HPE GreenLake Central**  
Manage your cloud services and view usage, cost, and more.  
[Launch](#)  
[View Cloud Products](#)

**HPE InfoSight** [Launch](#)

AI-driven intelligence across servers, storage, virtual machines and more.

### Quick Actions

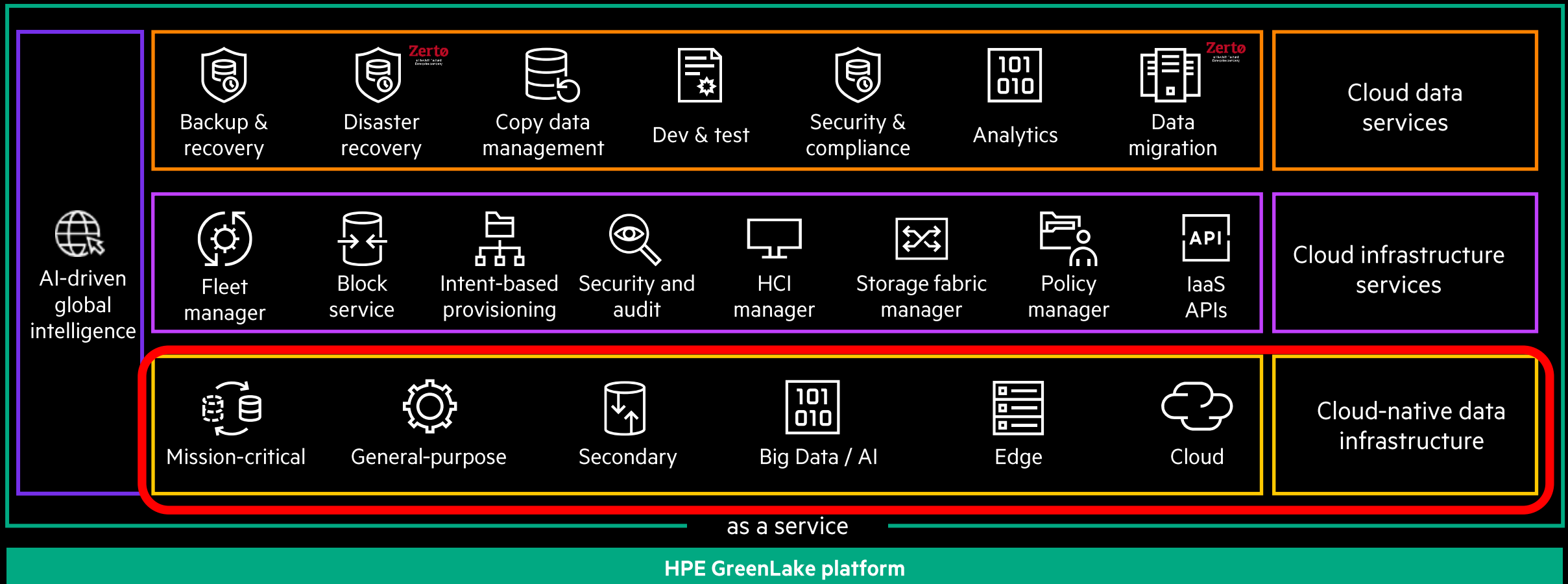
- Assign User Access**  
Assign a custom role or built-in roles to your team.  
[Assign Roles](#)
- Onboard Devices**  
Add and tag your compute, networking, and storage devices.  
[Add Devices](#)
- Manage Subscriptions**  
Add and manage your device and service subscriptions.  
[Add Subscriptions](#)

### Recommended for You

- Aruba networking**  
In-depth intelligence and insights on your network-as-a-service consumption.  
[Learn More](#)
- HPE Discover 2022**  
Las Vegas, June 28-30  
The edge-to-cloud conference  
The best of edge, cloud, and everything in between—all in one place.  
[Register Now](#)
- Get the latest news about HPE GreenLake**  
Get weekly news on releases, updates, and more as we make HPE GreenLake the go-to edge-to-cloud platform.  
[Subscribe Now](#)

# HPE GreenLake storage as a service architecture

More detailed view of the current and future Data Services Cloud Console deliverables



# HPE ALLETRA MP – THE BUILDING BLOCKS



## Standard building-blocks



HPE Alletra Storage MP chassis  
with versatile hardware configurations



100GbE RoCEv2 capable  
HPE network switch

## Personalities



Compute / Controller  
Block, file, or other personality



Capacity / JBOF  
NVMe, RoCEv2

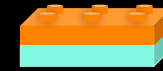


Compute + capacity  
Storage array

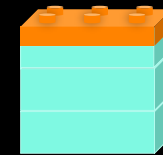


HPE Alletra Storage MP  
NVMe switch

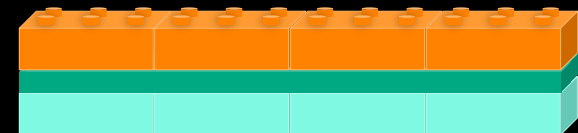
## Potential storage systems



Stand-alone system



Stand-alone system  
with JBOFs



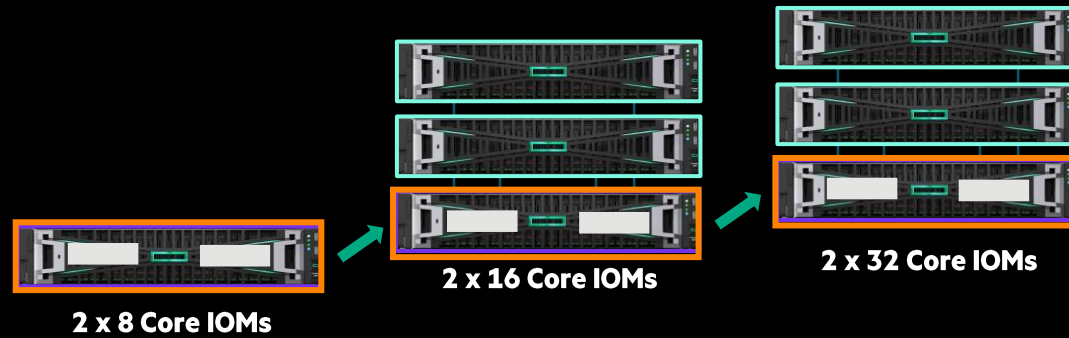
Switched multi-node system  
with dedicated compute nodes and JBOFs



# ALLETRA MP SCALE LINEUP – GREENLAKE FOR BLOCK STORAGE

## NG Alletra 2-Node

Point-to-point 100GbE RoCE v2 backend



➔ Online upgrade



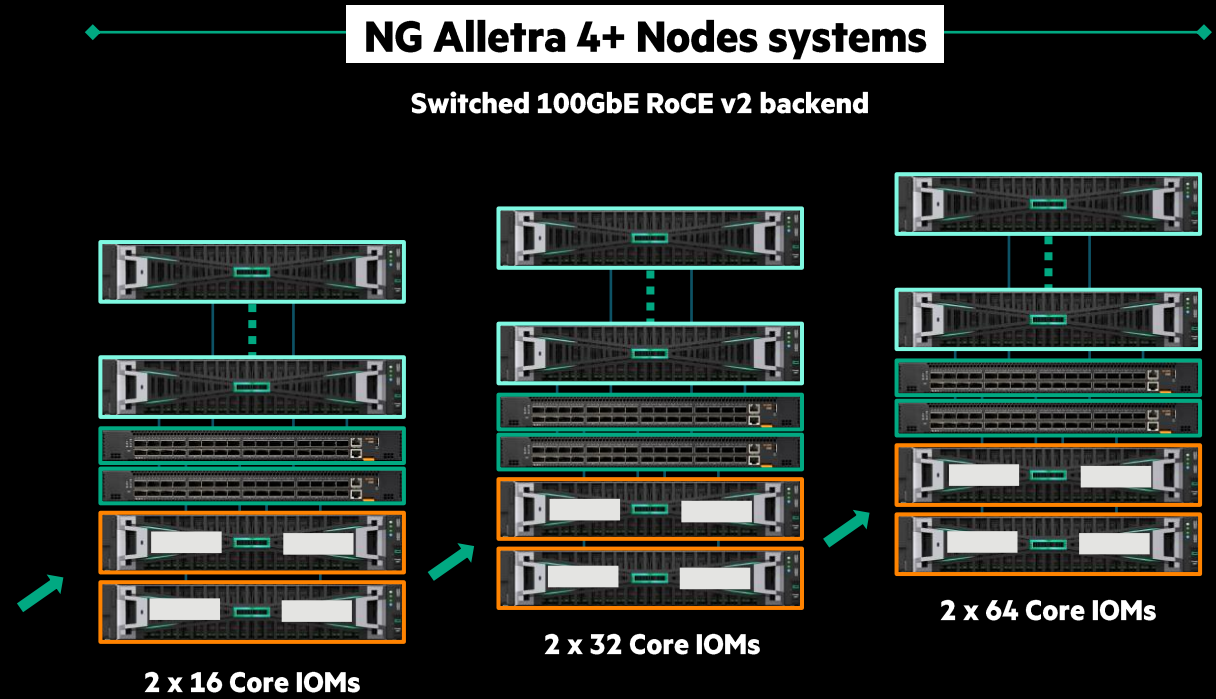
Compute and capacity






JBOF – Capacity only



# ALLETRA MP SCALE LINEUP – GREENLAKE FOR BLOCK STORAGE

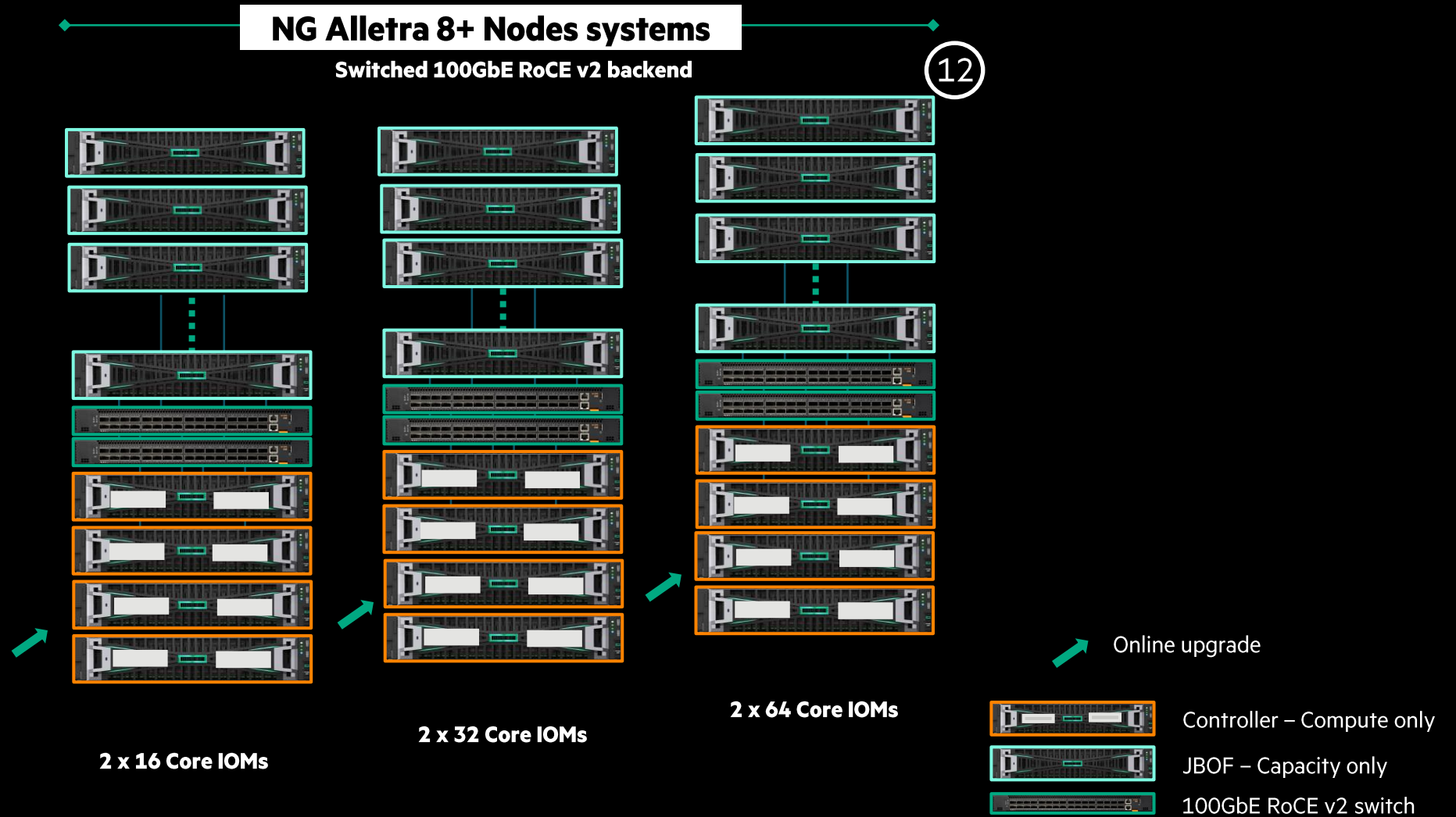


➔ Online upgrade

-  Controller – Compute only
-  JBOF – Capacity only
-  100GbE RoCE v2 switch



# ALLETRA MP SCALE LINEUP – GREENLAKE FOR BLOCK STORAGE



# HPE BLOCK STORAGE ALLETRA - MP



**100% Availability Guaranteed**

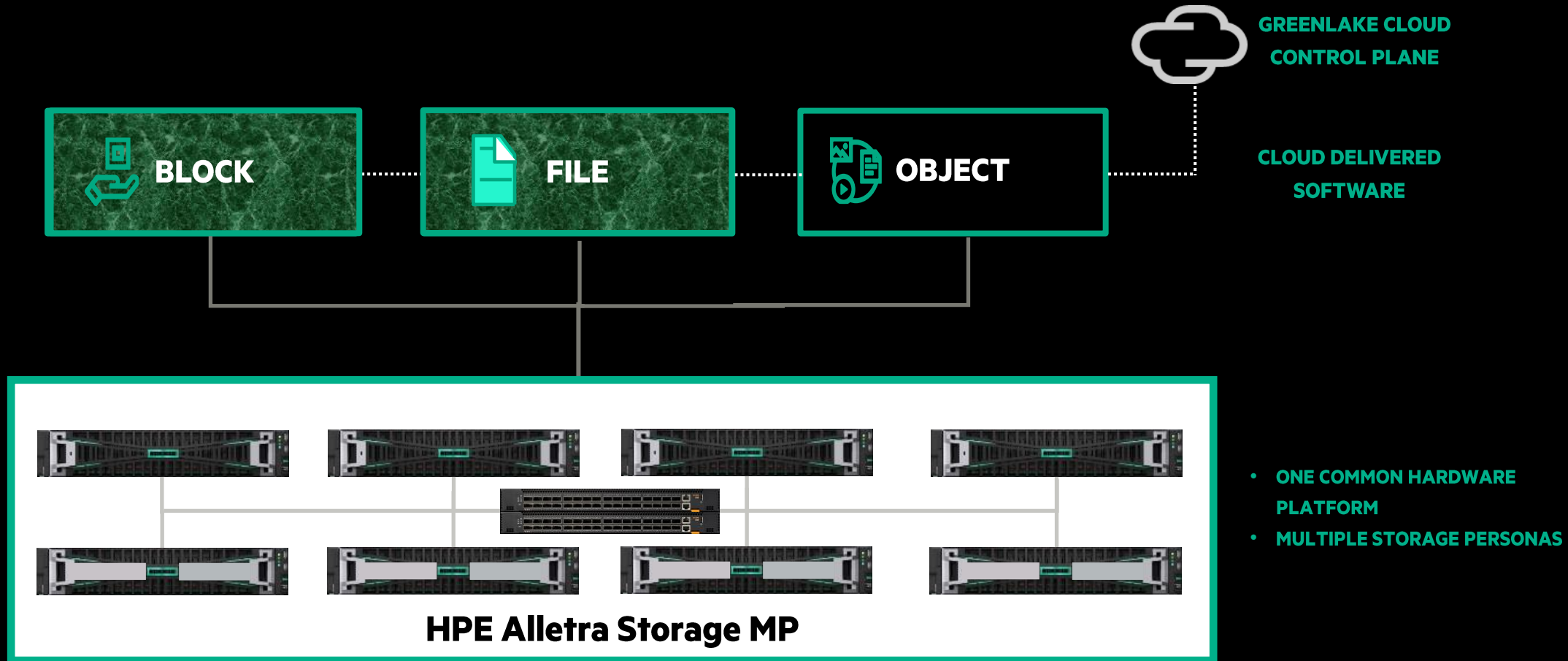




# BEYOND BLOCK



# MANAGING UNSTRUCTURED DATA GROWTH WITH COMMON PLATFORM



What's new:

# Extending the cloud experience to both Block and File Store & Manage

## HPE GreenLake for Block Storage

Extending mission critical storage  
to the midrange

## HPE GreenLake for File Storage

Scale-out File storage for  
data intensive workloads

Built on **HPE Alletra  
Storage MP**, extending  
the HPE Alletra  
Storage family

# Protect

## HPE GreenLake for Disaster Recovery

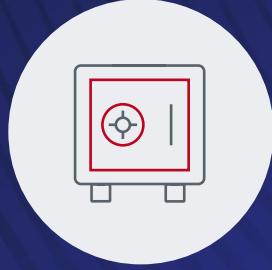
Industry-leading ransomware recovery

## HPE GreenLake for Backup and Recovery

Hybrid cloud backup-as-a-service



Real-Time  
Detection



Cyber Resilience  
Vault



Secure  
Appliance



Protecting Azure  
at Scale

**ZERTO 10 LAUNCH**

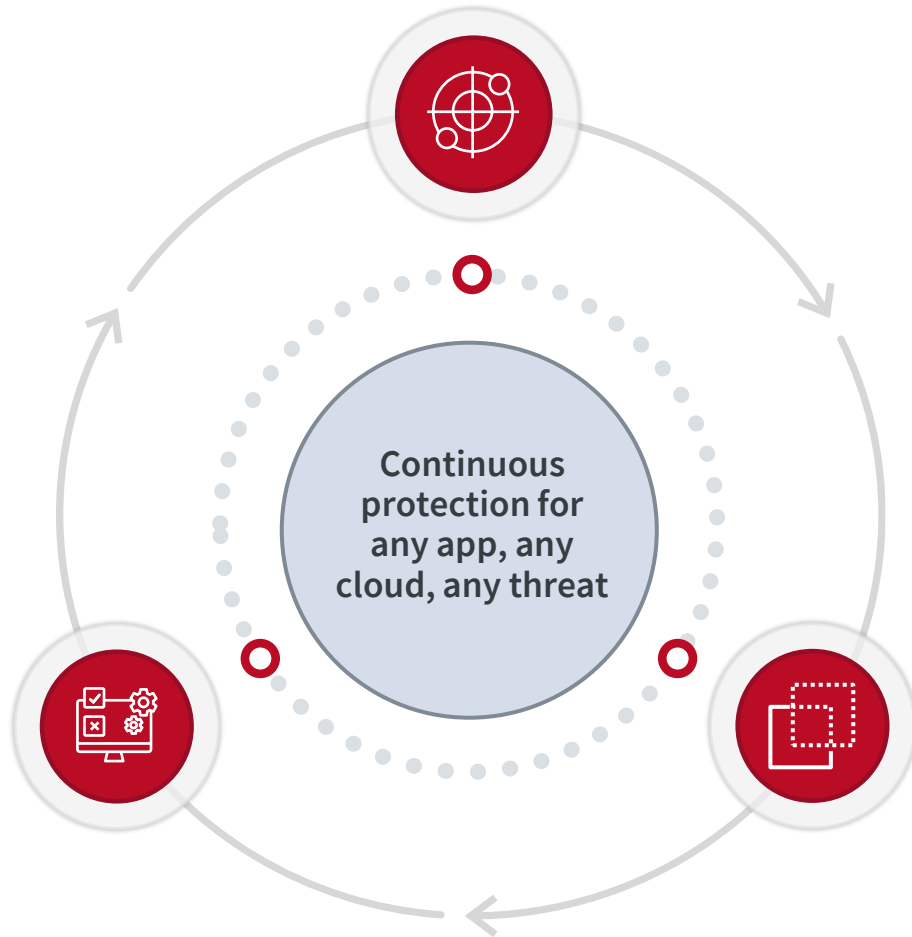
May 18th

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**GENERAL  
AVAILABILITY**

June 13th

**#1 REPLICATE  
AND DETECT**



**#2 ISOLATE  
AND LOCK**

**#3 TEST AND  
RECOVER**

# Ransomware Resilience with Zerto

# Thank You

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