

데이터 시대를 위한 차세대 스토리지 및 서비스 소개

박재현 매니저 / HPE



“데이터가 미래다” 외치는 국내·외 CEO



버지니아 로메티

IBM CEO

“앞으로는
데이터가
승자와 패자를
가를 것”

제프 베조스

아마존 CEO

“우리는 절대로
데이터를
내다 버리지
않는다”

정태영

현대카드·현대캐피탈 부회장

“현대카드는
이제 금융회사가
아니다.
'데이터 사이언스'
기업이다”

출처: <https://brunch.co.kr/@bzup/370>



“빅데이터는 기술에
영혼을 불어 넣는다”

Alibaba Group
중국 최대 전자상거래 업체
알리바바(Alibaba)
마윈 회장

SoftBank
Group
일본 최대 IT 업체
소프트뱅크(Softbank)
손정의 회장

“데이터는 산업혁명 시대의
석유 같은 자원이다”

4차 산업혁명 시대의 핵심자산, 데이터!
데이터 활용능력이 곧 국가의 기업의 경쟁력입니다.

출처: 과학기술정보통신부

THE STRATEGIC PROBLEM

THE WINNERS HAVE SPRINTED AHEAD

DIGITAL TRANSFORMATION



DIVIDE

GETTING WIDER

67%

of CEOs feel their
companies are losing ground

2X





































gains by top quintile
performers in past 12 months



Sources: KPMG, Mckinsey

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시가총액 TOP기업은 이미 사용자 데이터, Machine 데이터, 기업 데이터를 수집 하고 있습니다.

Rank	Name	Market Cap	Price	Today	Price (30 days)	Country
1	 Saudi Aramco 2222.SR	\$2.274 T	\$10.34	▼ 1.02%		 S. Arabia
2	 Apple AAPL	\$2.212 T	\$136.70	▼ 0.02%		 USA
3	 Microsoft MSFT	\$1.913 T	\$255.90	▼ 0.36%		 USA
4	 Alphabet (Google) GOOG	\$1.422 T	\$2,165	▼ 1.02%		 USA
5	 Amazon AMZN	\$1.085 T	\$106.72	▲ 0.48%		 USA
6	 Tesla TSLA	\$703.39 B	\$678.70	▲ 0.78%		 USA
7	 Berkshire Hathaway BRK-B	\$605.55 B	\$274.63	▲ 0.59%		 USA
8	 UnitedHealth UNH	\$478.52 B	\$510.06	▼ 0.70%		 USA
9	 Johnson & Johnson JNJ	\$468.54 B	\$178.06	▲ 0.31%		 USA
10	 Tencent TCEHY	\$435.71 B	\$45.29	▼ 0.22%		 China
11	 Meta Platforms (Facebook) META	\$423.13 B	\$156.35	▼ 3.04%		 USA
12	 Visa V	\$415.12 B	\$196.16	▼ 0.37%		 USA



Winner knows

DATA IS THE

LIFEFORCE

신속한 의사 결정

풍부한 인사이트

지속적인 혁신



TWO DIFFICULTIES

**HOW CAN WE
ACCELERATE
SPEED OF DECISION**



**HOW CAN WE UTILIZE
OUR PETABYTES OF
DATA FOR VALUE?**





STORAGE-AS-A-SERVICE

SOFTWARE-DEFINED STORAGE





**Hewlett Packard
Enterprise**

Storage-as-a-Service for all



“HPE will be a consumption driven company and everything delivered to you will be delivered as a service”

Antonio Neri
CEO HPE



HPE GREENLAKE PORTFOLIO CATEGORIES

70+
services

AI, ML, & Analytics	Business Applications	Compute	Containers	Database	Data Protection
<ul style="list-style-type: none"> • ML Ops • HPE Ezmeral Unified Analytics • AI and HPC infrastructure • Big data • Qumulo • Scality RING 	<ul style="list-style-type: none"> • Payments (Lusis) • Electronic health records (Epic) • 5G core stack 	<ul style="list-style-type: none"> • Composable compute • General purpose compute • High availability compute • Storage optimized compute • Compute Ops Management 	<ul style="list-style-type: none"> • HPE Ezmeral Runtime Enterprise on VMs • Google Anthos 	<ul style="list-style-type: none"> • EDB Postgres • Microsoft SQL Server • Nutanix Era for Databases • SAP HANA 	<ul style="list-style-type: none"> • Backup & recovery • Ransomware protection • Backup infrastructure • Managed backup • Managed disaster recovery • Veeam • Commvault • Cohesity
Edge	High Performance Computing	Hybrid & Multicloud	Hyperconverged	Migration	Networking
<ul style="list-style-type: none"> • Aruba • Hyperconverged general purpose infrastructure • Ruggedized infrastructure 	<ul style="list-style-type: none"> • HPC • AI and HPC infrastructure 	<ul style="list-style-type: none"> • Managed services for cloud • Microsoft Azure Stack Hub • VMware Cloud Foundation • Google Anthos • Microsoft Azure Stack HCI 	<ul style="list-style-type: none"> • HCI • Hyperconverged VM infrastructure • Nutanix for Private Cloud 	<ul style="list-style-type: none"> • Application migration • Data migration • Mainframe migration • Financial migration 	<ul style="list-style-type: none"> • Indoor wireless • Outdoor wireless • Remote wireless • Wired access • Wired aggregation • Wired core • SD branch • UXI • EdgeConnect • HPE Aruba Central
SAP	Storage	Security, Risk, & Compliance	Virtual Desktop	Virtualization	
<ul style="list-style-type: none"> • SAP HANA • SAP S/4HANA Cloud, Private Edition 	<ul style="list-style-type: none"> • Block storage • File storage • Object storage 	<ul style="list-style-type: none"> • Continuous compliance • Managed backup • Managed disaster recovery • Managed security • Ransomware protection • Continuous cost control • Software license and asset management 	<ul style="list-style-type: none"> • Virtual desktop infrastructure 	<ul style="list-style-type: none"> • Virtual machines • General purpose VM infrastructure • Hyperconverged VM infrastructure 	

HPE GREENLAKE PORTFOLIO CATEGORIES

AI, ML, & Analytics	Business Applications	Compute	Containers	Database	Data Protection
<ul style="list-style-type: none"> ML Ops HPE Ezmeral Unified Analytics AI and HPC infrastructure Big data Qumulo Scality RING 	<ul style="list-style-type: none"> Payments (Lusis) Electronic health records (Epic) 5G core stack 	<ul style="list-style-type: none"> Composable compute General purpose compute High availability compute Storage optimized compute Compute Ops Management 	<ul style="list-style-type: none"> HPE Ezmeral Runtime Enterprise on VMs Google Anthos 	<ul style="list-style-type: none"> EDB Postgres Microsoft SQL Server Nutanix Era for Databases SAP HANA 	<ul style="list-style-type: none"> Backup & recovery Ransomware protection Backup infrastructure Managed backup Managed disaster recovery Veeam Commvault Cohesity

\$7.1B

TCV booked to date

~1600

Enterprise customers, 50+ countries globally

900+

partners ready and selling

12+

years of IT as-a-service on-premises

96%

customer retention

Unique IP

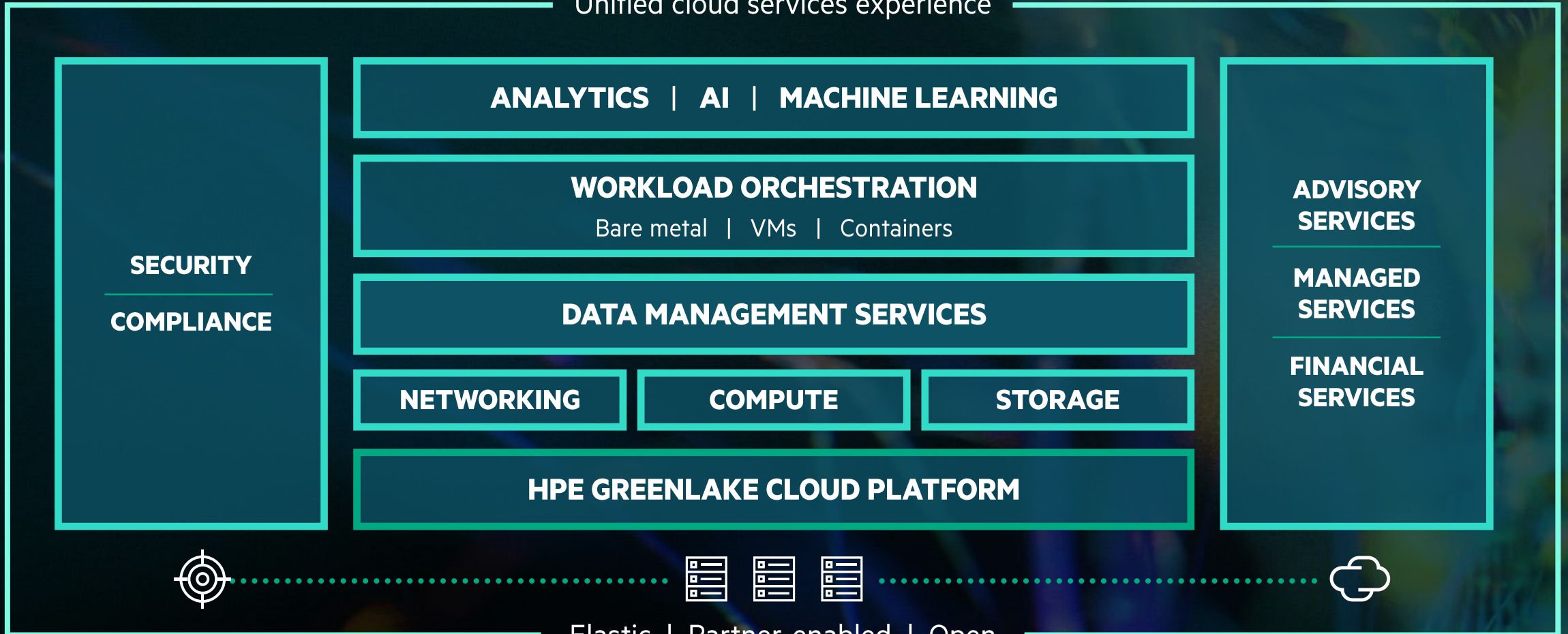
through acquisitions and organic investment

SAP	Storage	Security, Risk, & Compliance	Virtual Desktop	Virtualization
<ul style="list-style-type: none"> SAP HANA SAP S/4HANA Cloud, Private Edition 	<ul style="list-style-type: none"> Block storage File storage Object storage 	<ul style="list-style-type: none"> Continuous compliance Managed backup Managed disaster recovery Managed security Ransomware protection Continuous cost control Software license and asset management 	<ul style="list-style-type: none"> Virtual desktop infrastructure 	<ul style="list-style-type: none"> Virtual machines General purpose VM infrastructure Hyperconverged VM infrastructure

HPE GREENLAKE

Edge-to-cloud platform

Unified cloud services experience



Elastic | Partner-enabled | Open



HPE GreenLake Cloud Platform

Switch Account

Featured Applications

CLICK HERE

Aruba Central
Manage campus, branch, SD-WAN & data center networks with AI, automation & security.

Launch

[View Networking Products](#)

Data Services
Built for our hybrid cloud world to help you unlock the full potential of your data.

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](#)

Recommended for You

HPE GreenLake for
Aruba networking
In-depth intelligence and insights on your network-as-a-service consumption.

Learn More

Aruba Support Portal **Launch**

Save time on your Aruba Support needs: RMA, license management, downloads and more...

HPE InfoSight **Launch**

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

Quick Actions

Invite Users
Send an invite link to your team to collaborate with you on HPE GreenLake.

Send Invite

Grant User Access
Assign specific permissions to each user through built-in or custom roles.

Assign Roles

Las Vegas, June 28-30

HPE Discover 2022
The edge-to-cloud conference

The best of edge, cloud, and everything in between—all in one place.

Register Now →

Acme Corporation

Switch Organization

Networking
Aruba Central

Manage switching, Wireless LAN, SD-WAN infrastructure for campus and branch networks with AI, automation, and security.

Launch

[View Networking Products](#)

Storage

Data services to simplify data management and protection across hybrid cloud.

Launch

[View Data & Storage Products](#)

Compute

Securely manage compute and workload solutions across your entire estate.

Launch

[View Compute Products](#)

Workloads
HPE GreenLake Central

Manage your hybrid and multi-cloud workload services to view usage, cost, and more.

Launch

[View Cloud Service Products](#)

Manage

- Organization Settings
- Users and Permissions
- Billing, Usage, and Insights
- Documentation

Open Support Case

[View Support](#)

Featured Services

CLICK HERE 

Private Cloud Enterprise

Service-driven tools backed by leading partner cloud stacks that enable delivery.

[→](#)

Block Storage

Simplify operations by running any application without compromise.

[→](#)

High Performance Compute

Solve big problems with systems optimized for high performance workloads.

[→](#)

CLICK HERE  vices

Disaster Recovery

Continuous disaster recovery, backup and data mobility in the cloud.

[→](#)

Your Subscriptions

- 0 Available Devices
- 6 Available Services

Easily purchase service subscriptions when needed and manage resources at scale. Cancel at any time.

Buy Subscriptions

Data Fabric

Integrate all data sources across your hybrid edge-to-cloud environment.

Backup & Recovery

Data protection as a service that's effortless, efficient, and secure.

ML Ops

Bring DevOps agility to the machine learning lifecycle with HPE GreenLake for ML.

VDI

Enable your people to work securely, wherever they are with VDI delivered as a service.

More to Explore



BENEFIT OF HYBRID CLOUD OPERATION MODEL

구매 프로세스

***92% 단축**

관리 프로세스

***82% 자동화**

*HPE Research team : GreenLake 고객사 통계기준



HPE GREENLAKE FOR BLOCK STORAGE

*100% availability guarantee
built-in for mission critical apps*

- Go faster with self-service agility
- Consume as a service
- Run any app – without compromise

Create Volumes

General Options Review

* Storage Tier ⓘ

Business Critical ^

Business Critical (able guaranteed for Business-critical workloads)

Mission Critical

Select Workload v

* Name of the Volume(s) ⓘ

Name of the Volume(s)

* How many volumes do you want to create? * How much storage is needed on each volume?

Number of Volumes Volume Size GIB v

Which group of hosts need access to this storage?

Cancel Continue

Speed Time to Value
with **intent-based provisioning**

98%

Operational time savings

Reduce Business Risk
always-on

100%

Availability guaranteed²

HPE GREENLAKE for HCI

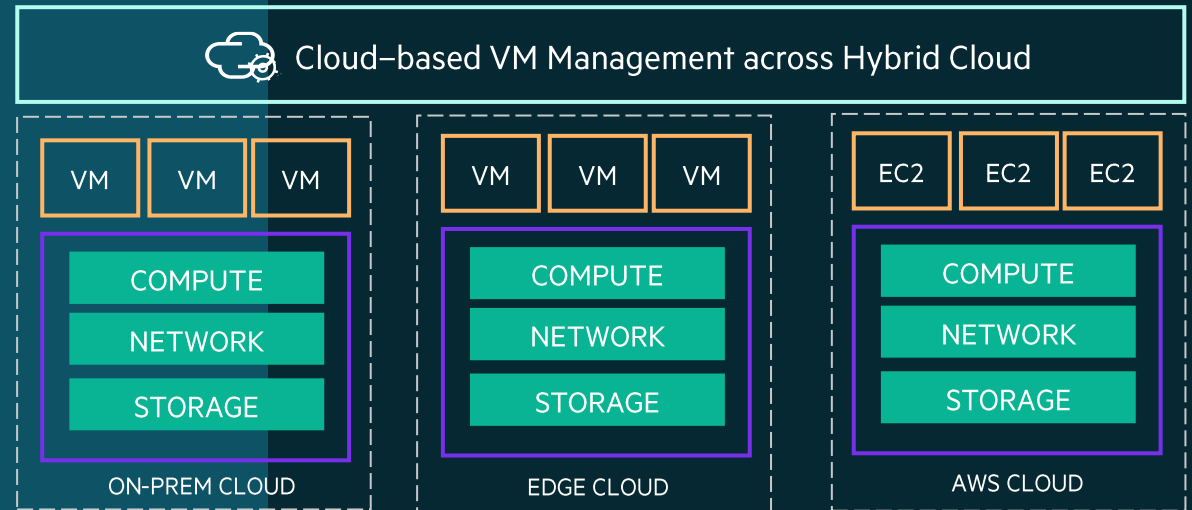
VMs across Hybrid Cloud

Go faster with self-service agility

- Consume VMs and infra as-a-service
- Manage on-prem and AWS VMs with a unified cloud experience

HPE GREENLAKE FOR HCI

- ☑ 1-stop VM to infra management across hybrid cloud
- ☑ 1-click multi-system deployment with blueprints
- ☑ 1-click multi-site upgrades

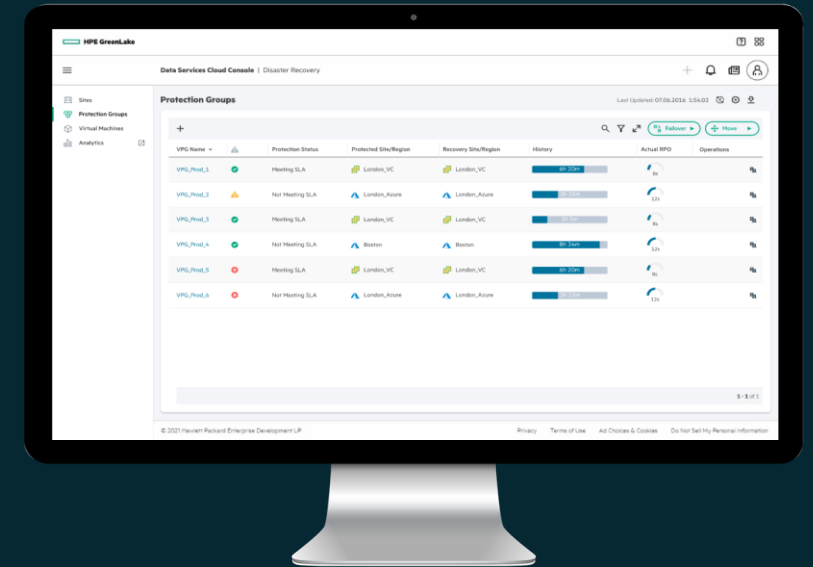
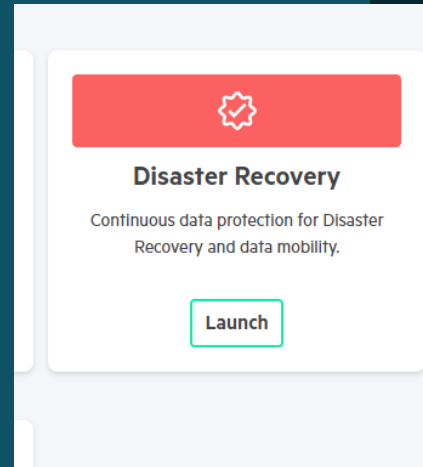


Build your self-service cloud on demand where you need it

HPE GREENLAKE for DISASTER RECOVERY

Unlocking the fastest recovery
experience in one simple platform—
with unlimited scale.

- Fastest recovery from any disruption
- One simple, unified experience from edge to cloud
- Pay as you go with unlimited scale



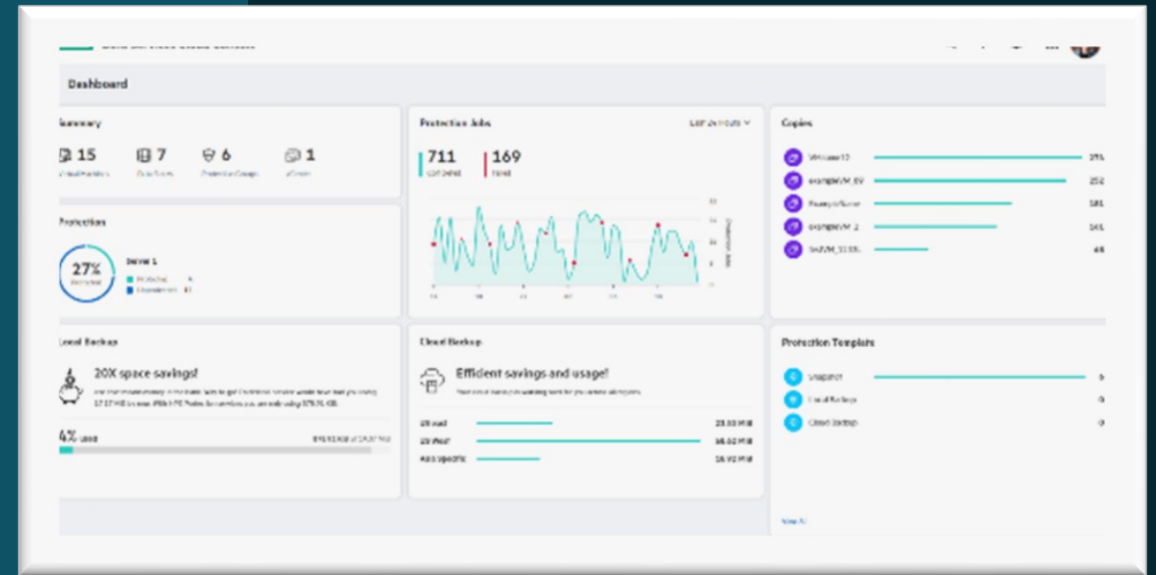
HPE GreenLake Cloud Platform

HPE GREENLAKE for

BACKUP AND RECOVERY SERVICE

A unified Backup-as-a-Service solution for your on-prem and cloud workloads

Bringing the industry's most efficient backup solution to on-prem & public deployment



up to **5x**

more storage efficient than other protection services and software

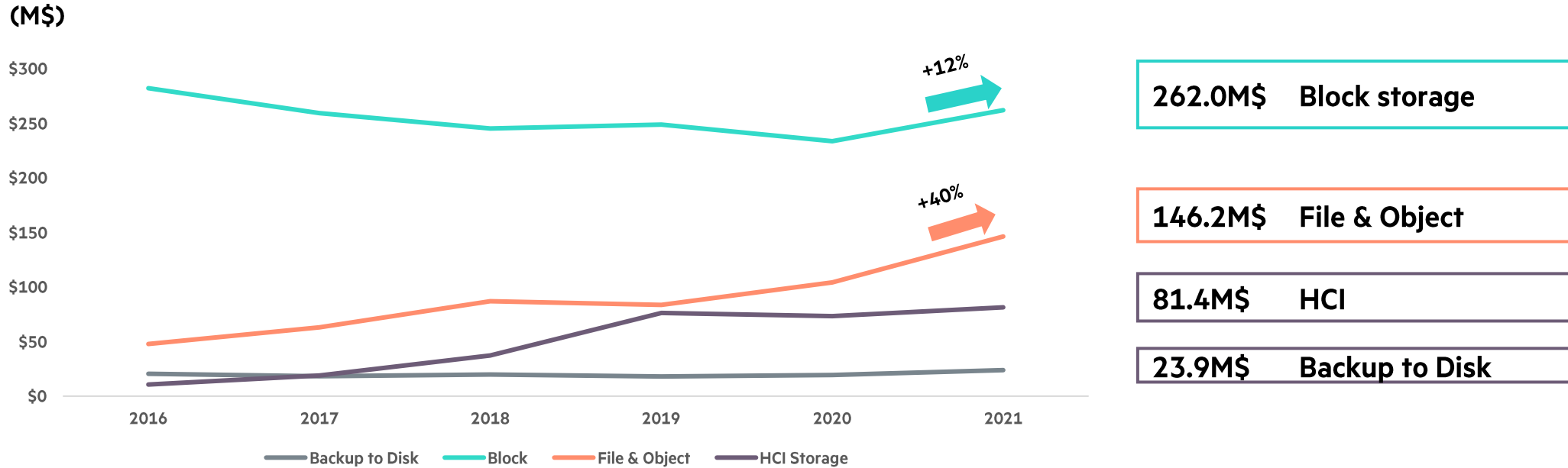
3 clicks

to protect VMs across hybrid cloud

늘어나는 데이터 관리를 위한 차세대 스토리지 솔루션 소개



스토리지 시장의 변화



4차 산업혁명 시대 SNS/Big data/IoT/AI 기술의 발달로 기업에서 활용하는 비정형 데이터가 급증하고 있습니다.

이런 추세는 향후 5년간 지속적으로 이어질 전망이며 이에 2020년 부터 File&Object시장이 급격하게 성장하고 있습니다.



스토리지 시장의 변화

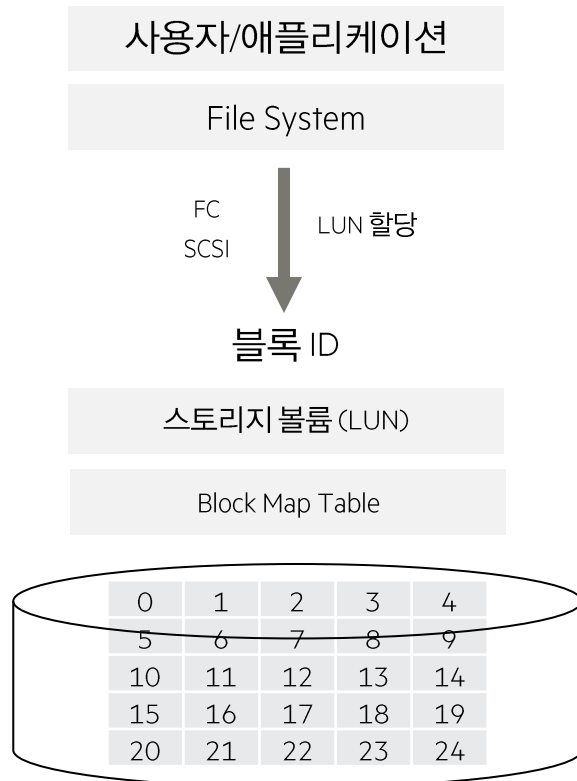
(M\$)

기존 하이엔드 블록 중심의 시장이 변하고 있습니다.
따라서 데이터 및 스토리지에 대한 전략도 변해야 합니다.

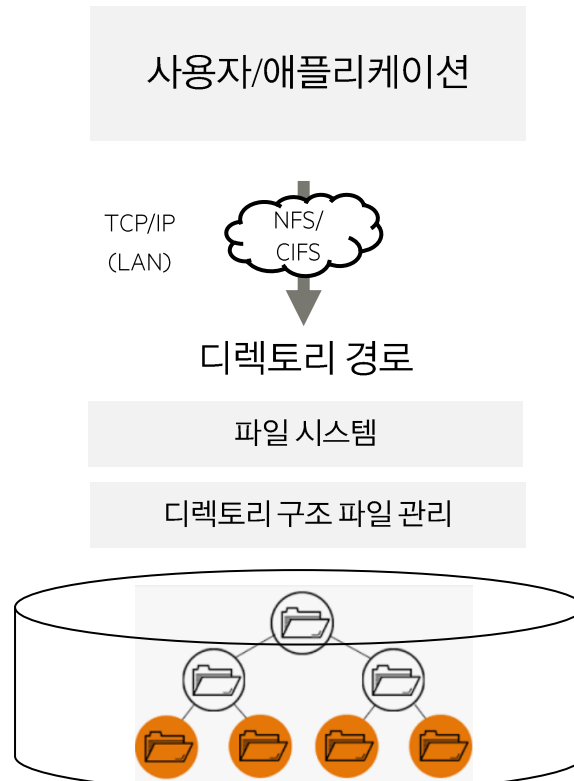


STORAGE SYSTEM 분류

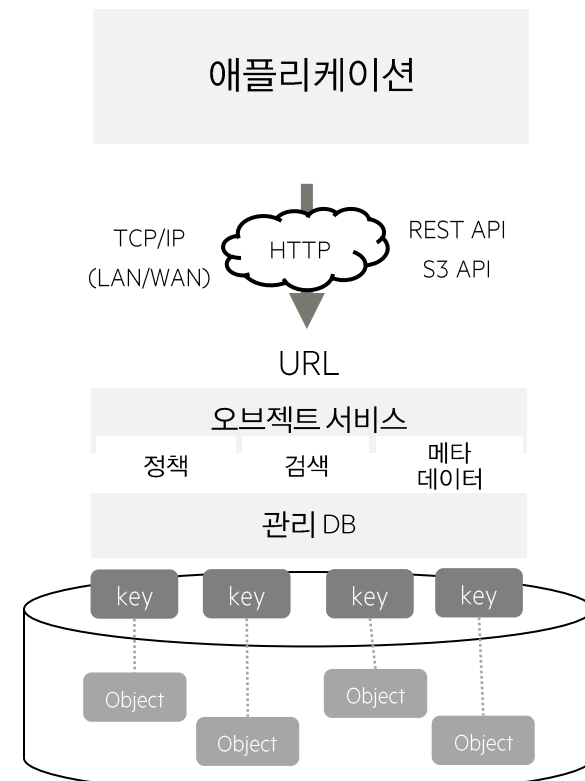
블록 스토리지



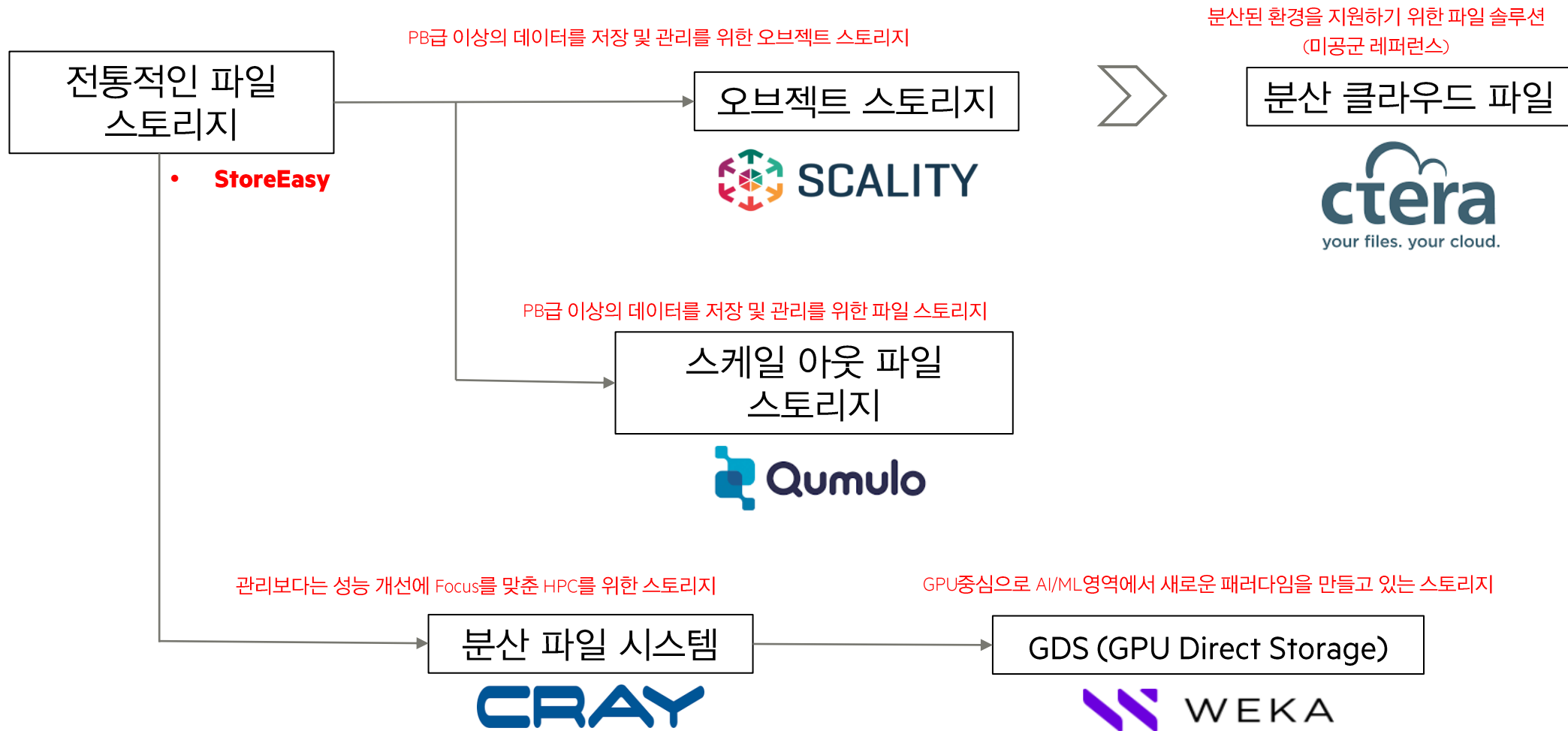
파일 스토리지



오브젝트 스토리지



HPE FILE & OBJECT STORAGE 라인업



HPE Qumulo : 스케일 아웃 파일 스토리지

- 디렉토리 구조를 완전히 배제한 신규 파일 스토리지
- 파일 스토리지 > 50TiB이상이 필요한 고객
- 극악의 파일 환경 (수 조개 파일, 수십PB용량 확장)
- Low-latency, 작은 파일의 읽기/쓰기가 잦은 업무
- 이더넷 기반의 스토리지

HPE Scality : 오브젝트 스토리지

- 오브젝트 스토리지 > 50TiB이상이 필요한 고객
- AWS S3와 완전히 호환되며 데이터를 On-premise로 다시 Roll-back하고 싶은 고객
- 수 십MB이상의 큰 파일 저장 및 운영이 필요
- 멀티 데이터센터 통합 및 데이터 관리가 필요
- WORM 데이터 장기보관

HPE Clustrestor / Weka : HPC 스토리지

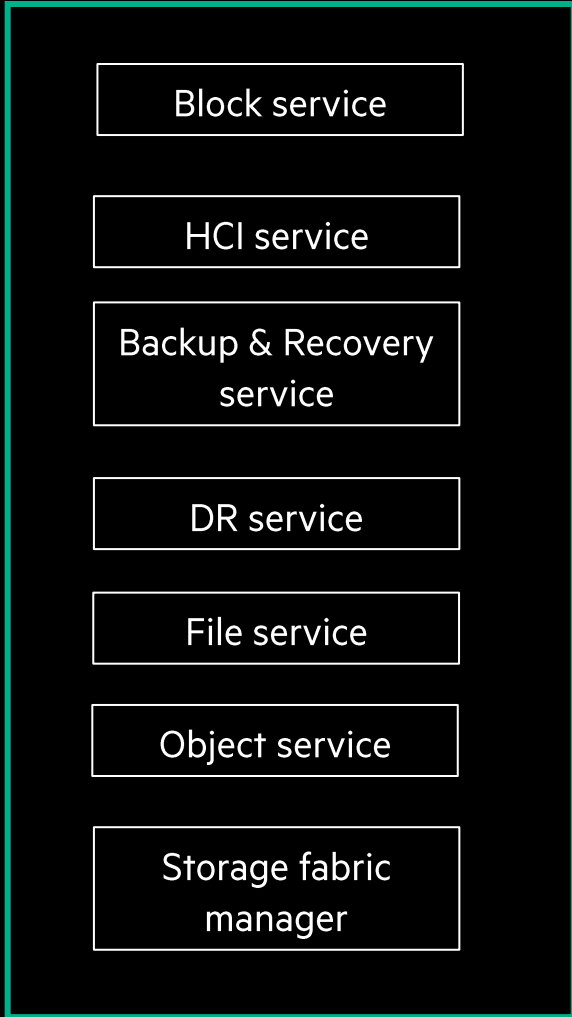
- GPU Direct storage을 찾고 있는 고객
- 최고의 성능을 기반으로 훈련시간을 최소화 시키고 싶은 고객
- SuperPOD, 대규모 GPU환경
- 인피니밴드 기반 환경을 원하는 고객

HPE Ctera : 분산 클라우드 파일

- 분산된 환경의 NAS를 별도 관리하는 복잡한 환경을 개선하고 싶은 고객
- 사업소/지사에서 중앙 NAS 성능에 불만이 있는 고객
- 네이버 드라이브, Dropbox같은 솔루션을 찾고 있는 고객
- 100%보안을 갖춘 Private 파일 공유 환경을 구축하고 싶은 고객 (구글Drive, MS Onedrive 같은 환경)

2022년도 스토리지 분류

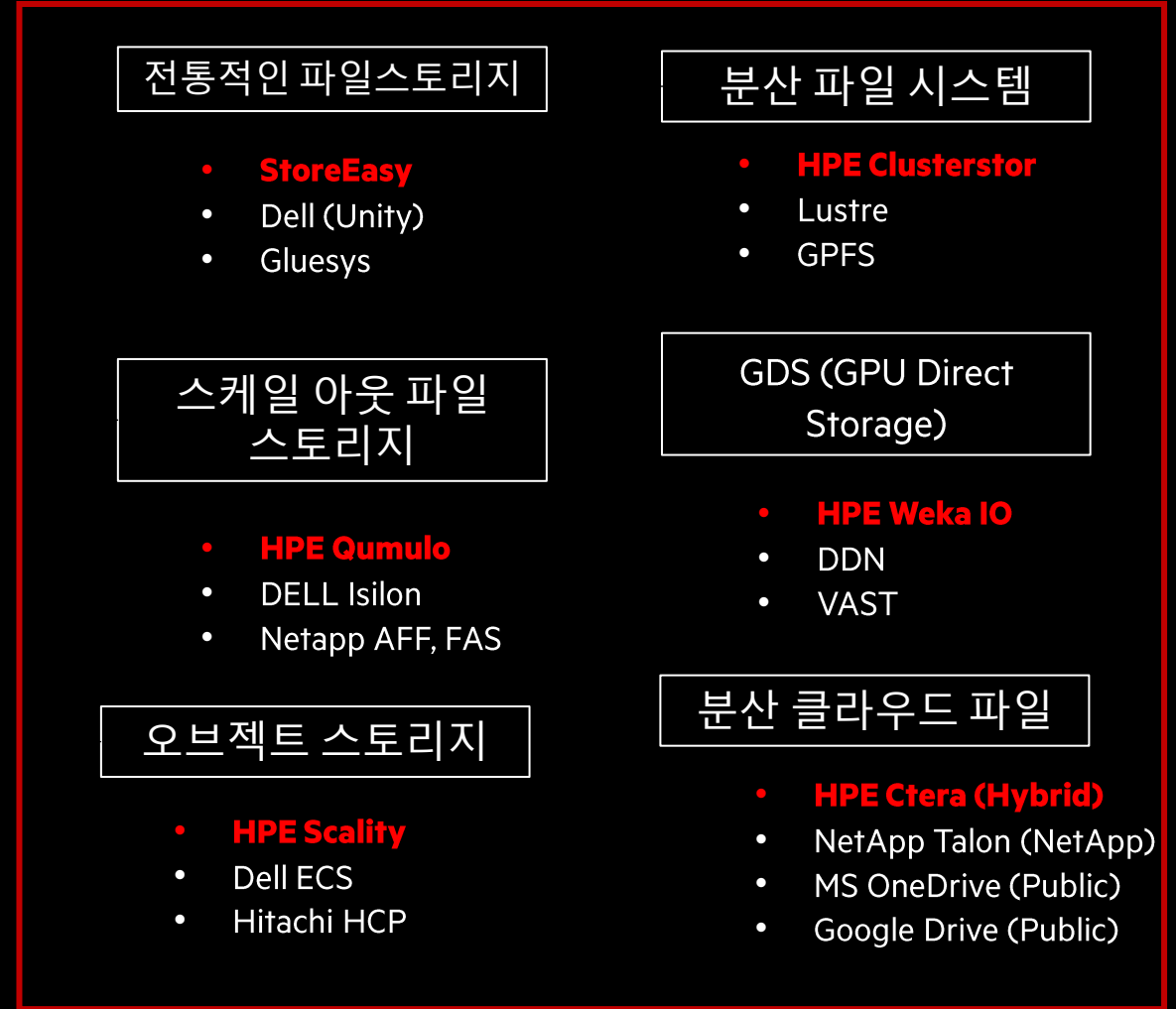
As a service



Block



File & object



Hybrid Cloud

정형 데이터

비정형 데이터

**YOUR DATA.
YOUR AGILITY.
YOUR INNOVATION.**





Hewlett Packard
Enterprise

THANK YOU

