Cloudian's Role in Modern Cloud Architectures

Today's Enterprise Storage Challenges

Data Growth

Growth increases management complexity

Cloud Complexity and Cost

Cloud creates new silos and expenses

Data Sovereignty

Regulatory requirements demand data locality

Data Security

Growing ransomware and security threats

Meet Cloudian

S3cure

Military grade data security, proven in government validation.

Hybrid

Public cloud integration that complements your cloud strategy.

Datalake

Exabyte scale datalake to store, manage and protect.

Built for enterprise

- Highest S3 compatibility

- Limitless scalability

- Military grade security

- Geo-distribution for full control of data location

- Hybrid integration with AWS, GCP, and Azure

- Cloudstack Integration for Private Cloud / MSP environment

S3 Compatible

Secure

Hybrid

Datalake

Technology

People

Process

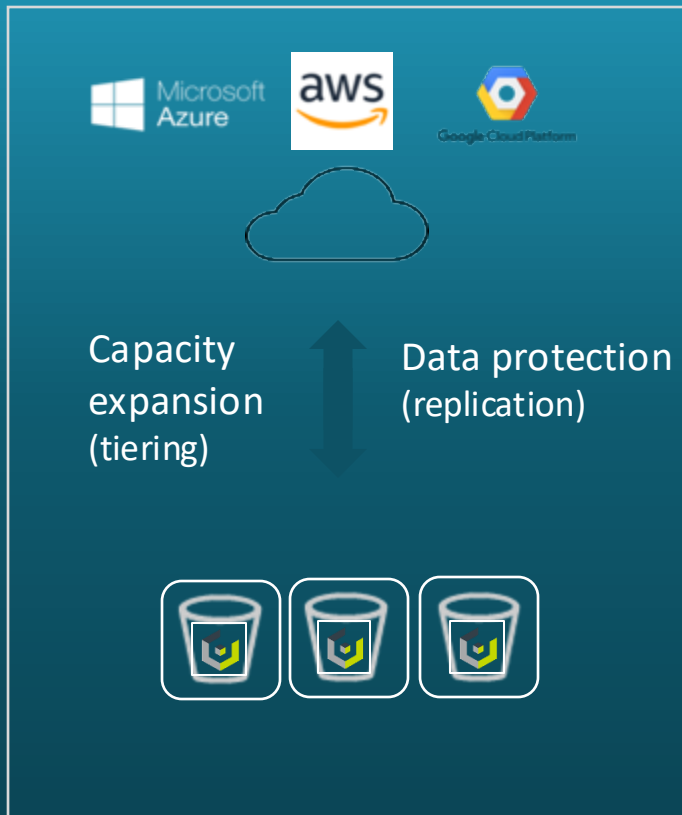**Scalable**

Geo-Distributed

CLOUDIAN
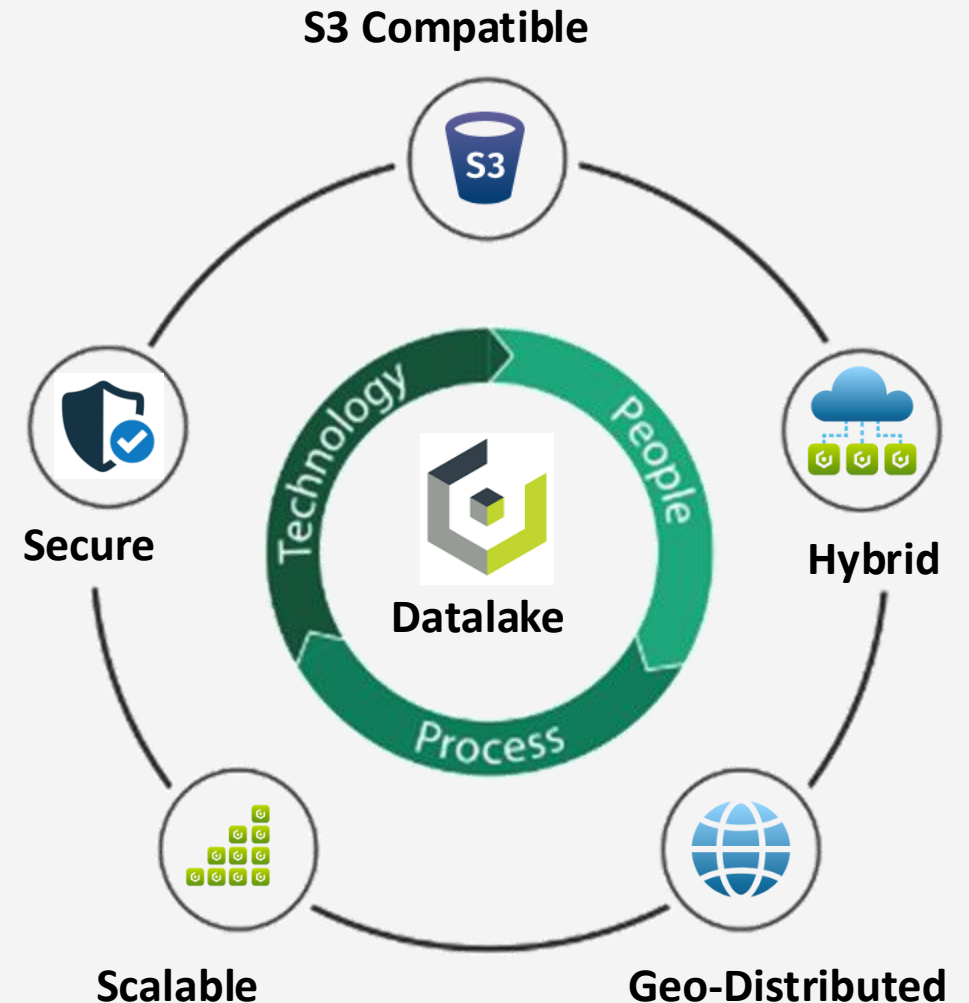
Multi-Site Deployments

Geo-Distributed

Replication or erasure coding across multiple sites

- Data protection
- Content distribution
- Remote data collection

Site 1   Site 2

Hybrid Cloud (optional)

Microsoft Azure   aws   Google Cloud Platform

Capacity expansion (tiering)   Data protection (replication)

Multi-Cloud (optional)

Microsoft Azure   aws   Google Cloud Platform

S3 API to any cloud   Unified data management (across clouds + on-prem)
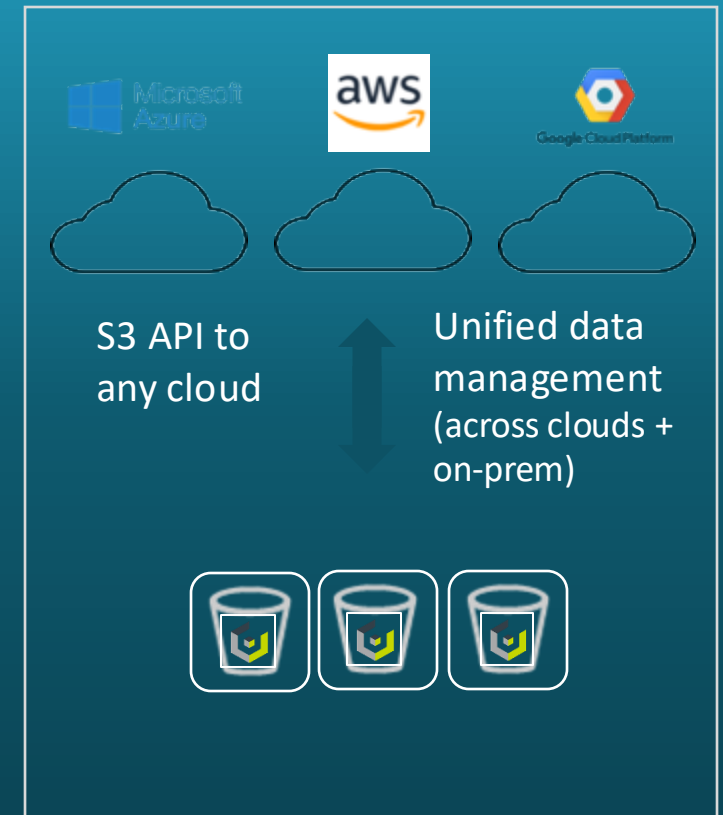
Data management with HyperStore. No extra software to buy or manage.

MILITARY-GRADE SECURITY

Data immutability

S3 Object Lock for ransomware protection

Data cannot be changed or deleted

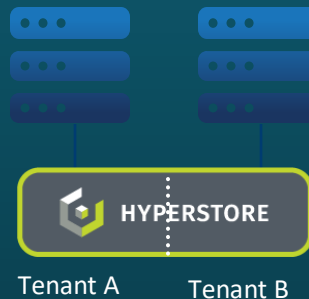Tamper-proof protection

Security certifications

The most complete set of certifications in object storage:

Common Criteria, FIPS 140-2 SEC Rule 17a-4(f), CFTC 17 C.F.R. § 1.31, FINRA 4511c, IDW PS 880 (German), OR §§ 957ff (Swiss) NIST 800-88

Secure multi-tenancy

Securely share single environment

Unique namespaces & management

QoS controls ensure performance

Tenant A   Tenant B
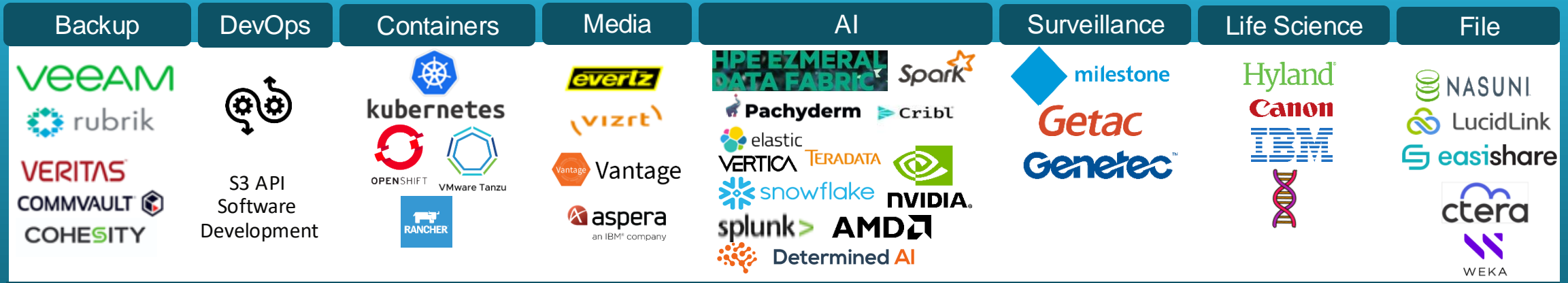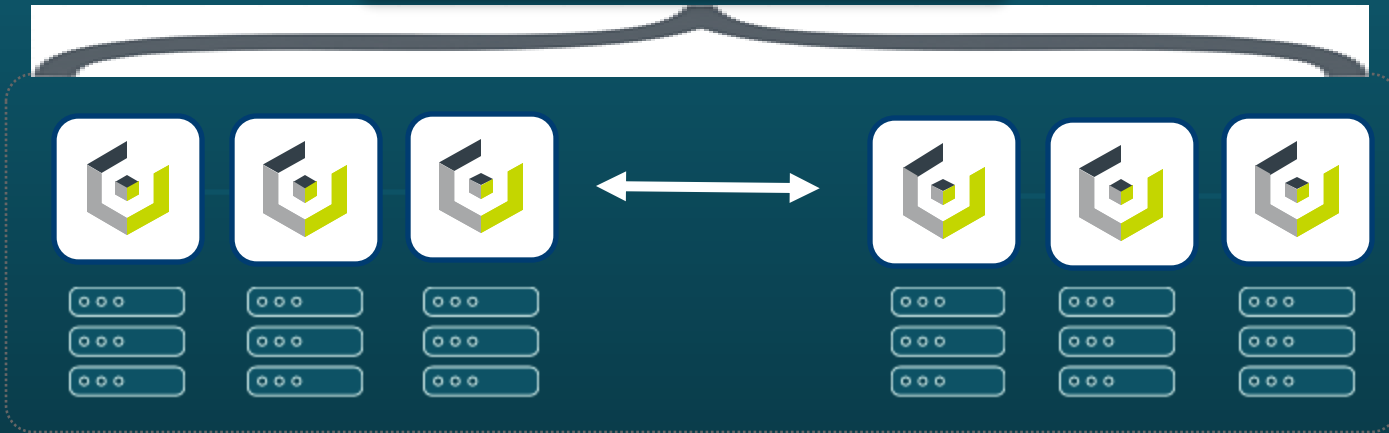
Data encryption

Data at rest: AES-256 encryption (NIST)

Data in flight: TLS 1.2 and 1.3 protocols (Internet Engineering Task Force)

TRUE SECURE MULTI-TENANCY FOR HUNDREDS OF WORKLOADS

Backup	DevOps	Containers	Media	AI	Surveillance	Life Science	File

Restful API –S3

Single Namespace

Policy-based data tiering

Public Cloud

Multi-site, multi-tenant, certified security

ON-PREM PRIVATE cloud compared to PUBLIC cloud

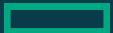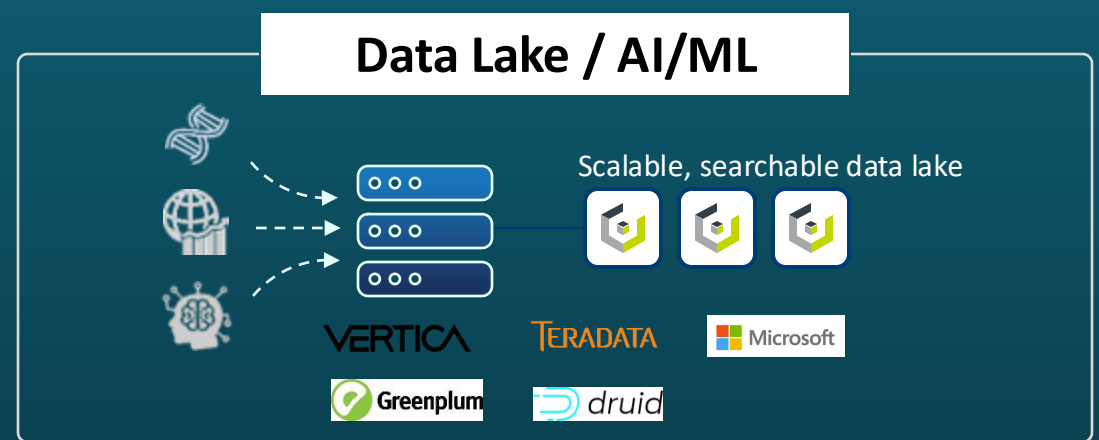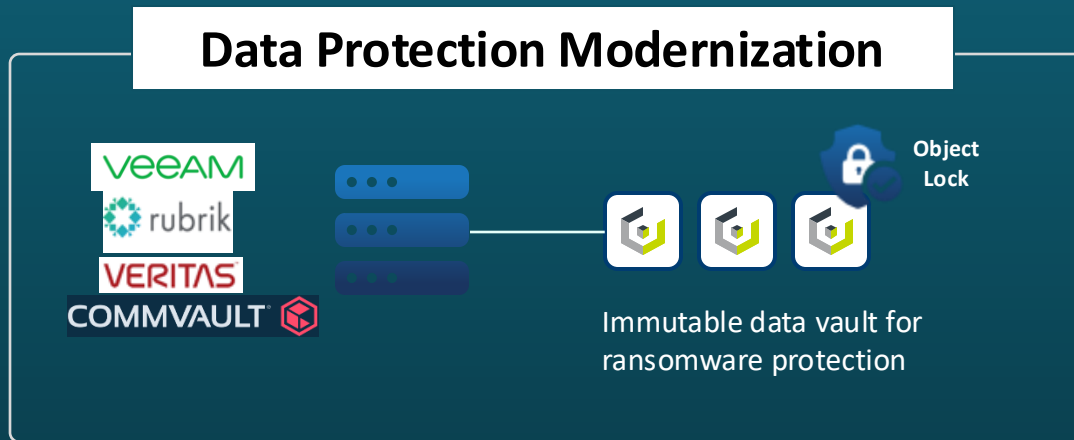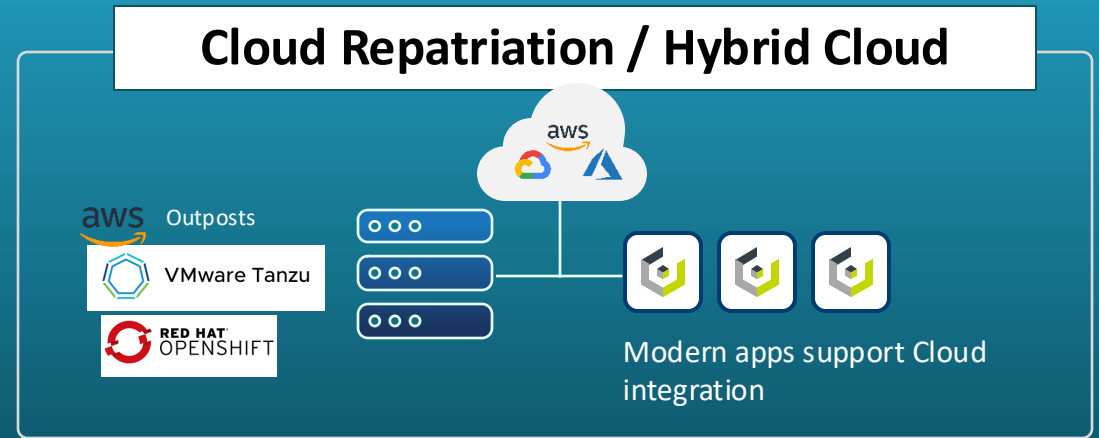|		
IaaS	Hyperscaler Cloud Orchestration Platform	Apiculus (Cloudstack based Cloud Orchestration Platform)
Compute	AWS EC2, Azure VMs, GCP Compute Engine	VMs (VMware, KVM, Hyper-V), Baremetal
Structured Data Store	EBS, Azure Disk storage	All Flash and NVMe SAN SDS/Arrays
Unstructured Data Store	AWS S3, Azure Blob Storage, GCP Object storage	Cloudian Object Storage
Backup & Archival	S3, Glacier	Cloudian Object Tiered to disk / tape Solution

Where Cloudian Fits

Data Capacity

Structured

SAN Systems

20% **80%**

Unstructured

CLOUDIAN®

Ideal for:

Data lake

Data protection

Storage services

Media repository

NAS offload

Video surveillance

AI/Machine learning
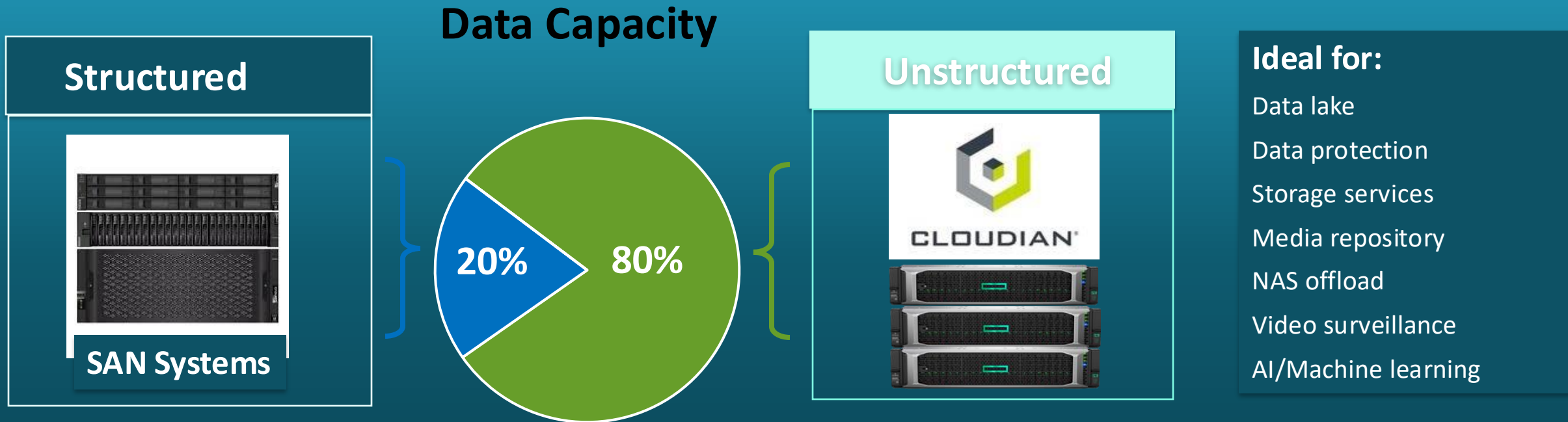
The Solution for 80% of Your Data

Highlight Use cases

STaaS

QoS

Billing Multi-Tenancy

Cloud Repatriation / Hybrid Cloud

aws

aws Outposts

VMware Tanzu

RED HAT OPENSHIFT

Modern apps support Cloud integration

Data Protection Modernization

veeam

rubrik

VERITAS

COMMVAULT

Object Lock

Immutable data vault for ransomware protection

Data Lake / AI/ML

Scalable, searchable data lake

VERTICA TERADATA Microsoft

Greenplum druid

Cloudian WINS – LOGOS SUMMARY

Thank you