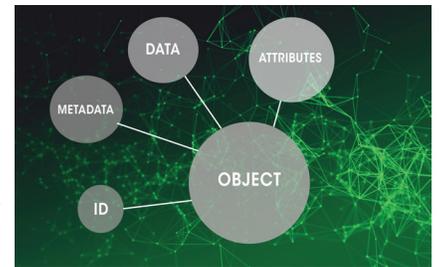


# Agility at Cloud Scale for Cold Data and Object Storage

## The DriveScale Composable Platform

Enterprises and cloud companies are employing big data analytics and AI to gain operational insights, make better business predictions and personalize content for customers. The continuous growth of data for these uses and many more require companies to build larger stores, keep data online longer and bring archived data back online. Much of this data is infrequently accessed, or cold data, and requires economical and efficient storage at scale.



Accurately planning how much compute and storage is needed for cold data or a growing object store, and efficiently provisioning compute and drives is an ongoing challenge. As a result, there is growing demand for infrastructure solutions that can be flexibly designed, scale seamlessly and cost-effectively while ensuring quick and easy access to cold data whenever it is needed.

While some companies use the public cloud for cold storage, this approach is less than optimal when data is sensitive, timely access is needed (even infrequently), or data grows to significant scale resulting in out-of-control costs. Alternatively, companies store data on premise or in co-location facilities on commodity direct-attached storage (DAS) servers. This option has its own set of challenges, most importantly a fixed ratio of compute to storage captive inside the box that results in idle compute and wasted spend, especially for use cases like cold data that require little compute per disk. Moreover, DAS servers limit data accessibility and configuration flexibility and cannot adjust to changing workflows, which increases operational burdens especially as the size and complexity of deployments increase.

DriveScale provides a unique approach to server and storage infrastructure for cold data and object stores of any size. DriveScale enables users to create the exact server and storage configuration needed for the application leveraging disaggregated, low-cost compute, storage and high-performance Ethernet fabric. With ultimate flexibility for cold data or object stores, users can configure hundreds of drives to a single compute node and dramatically lower costs or create just about any variation of compute to storage configuration to meet cost or performance requirements.



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## DriveScale Delivers Design Flexibility

The DriveScale Composable Platform is the only server infrastructure that scales and adapts compute and storage resources to meet the needs of applications on the fly. With the DriveScale platform, customers can choose their preferred vendors for dense flash or HDD eBODs (Ethernet Box of Drives) and diskless servers and compose optimized server configurations to meet the needs of individual applications or workloads. With DriveScale, users can deploy server and storage infrastructure in minutes not months, maximize resource utilization and eliminate wasted spend with independent compute and storage upgrades.

## Why DriveScale

The DriveScale Composable Platform brings the agility of public cloud storage to your data center at a cost companies can afford. In seconds, from the software platform, users can add compute nodes or drives, or replace failed compute nodes or drives with an alternative from the resource pool. Companies with large volumes of cold data or high-scale object stores can deploy the DriveScale platform at a lower cost while ensuring their data is secure and accessible when needed.

With the DriveScale platform, companies can:

- Provision cold data or object storage server clusters in minutes
- Optimize configurations by creating any ratio of compute to disk
- Eliminate overprovisioning common with DAS server platforms
- Maximize hardware investments with independent upgrades of compute and storage
- Instantly recover from component failures from an easy-to-use software interface

By optimizing resource utilization using DriveScale, companies can deploy server infrastructure at a lower cost than alternatives while ensuring they have the flexibility to quickly scale up or down compute and storage resources as needed.

## Composable Infrastructure

Composable Infrastructure is next-generation server infrastructure that provides the ability to flexibly create, adapt, deploy and later redeploy servers using pools of disaggregated, heterogeneous compute, storage and network fabric. According to IDC, the composable infrastructure market is estimated to grow from \$752 million in 2018 to \$4.7 billion in 2023.