

DATA TIERING WITH HPE EZMERAL DATA FABRIC



Data Tiering from HPE Ezmeral Data Fabric

- Manage data lifecycle in different data tiers
- Choose between performance, capacity, and cost-optimized tiers
- Use policies to enforce SLAs and move data across tiers
- Match your storage media of choice with tiers to maintain hierarchical data management

Data tiering in HPE Ezmeral Data Fabric lets you store, manage, and analyze data in different tiers, based on performance, cost, and capacity trade-offs, regardless of the underlying physical storage infrastructure. All your data has distinctive characteristics and, thereby, mandates different requirements from the underlying data fabric. With data tiers, you can segregate data and easily balance between performance, cost, and capacity requirements.

the recent few years or is being generated daily. More organizations are embracing a continuous analysis model for their business decisions, which requires them to handle different types of data with varying service-level agreements (SLAs). As organizations store more historical data, the characteristics of data change. Current data that is active will transition to not being actively used over time. A data fabric must be equipped to offer several capabilities to handle the data lifecycle.

STORE, MANAGE, AND ANALYZE YOUR DATA INTELLIGENTLY

We are currently in the exabyte era, where most of the data has been generated in

The data tiering capability of the HPE Ezmeral Data Fabric allows you to store, manage, and analyze your ever-growing data, based on different SLAs. HPE Ezmeral Data Fabric introduces a three-tiered approach to placing and managing data.

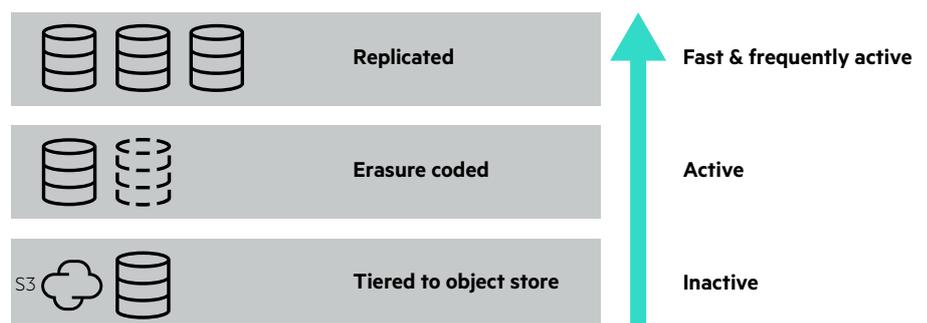


FIGURE 1. Data tiering with HPE

Key benefits

- One solution for different categories of data
- Easy management of data across its lifecycle, while maintaining SLAs
- Automated placement and movement of data across tiers
- TCO benefits by leveraging cheap object storage for inactive data
- Monitoring and helping optimize space utilization

OPTIMIZE FOR AVAILABILITY AND PERFORMANCE

Use replicas to protect and spread your extremely active data across the cluster, knowing it's 24x7 availability. Associate the tier with all-flash performance to achieve enhanced performance and availability. For example, an organization building a machine learning (ML) pipeline invariably has large volumes of training data that are frequently accessed and updated for building initial and subsequent models. Depending on the rate with which the training data is updated, replicating and storing it on a high-performance tier will accelerate ML training jobs, resulting in faster building of models.

BOOST CAPACITY EFFICIENCY

Apply erasure coding data protection while helping maximize the capacity efficiency. Cost to store large volumes of data can vary widely, but with HPE Ezmeral Data Fabric's capacity tier, you can reduce your overall cost in managing data. Highlighting the same ML example, using large volumes of training data requires efficient storage, while still allowing uninterrupted updates and ingestion of new data.

LEVERAGE FOR COST AND LONG-TERM ARCHIVING

Use the HPE integration with S3-Compatible APIs for storing data long-term. Typically used for archival purposes, a HPE Ezmeral Data Fabric archive tier allows you to move data to the cloud or any S3-Compatible cheap store with the ability to bring back the data into an active, operational mode quickly.

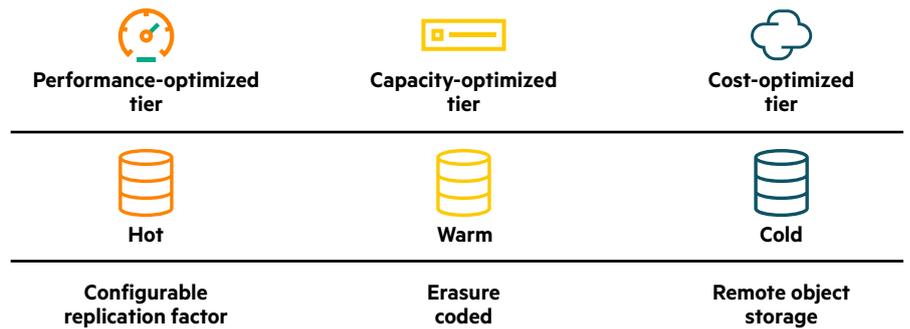


FIGURE 2. Performance vs. cost for object tiers

MANAGE PLACEMENT AND MOVEMENT OF DATA WITH POLICIES

Easily migrate and manage movement of data across the tiers, based on policies. For example, you can move data if it is older than a certain number of days.

of highly performant or highly dense tiers. For long-term archiving, tier data to any S3-compatible object store, be it a public cloud or an on-premises third-party vendor supported by HPE Ezmeral Data Fabric, for a highly efficient configuration. HPE Ezmeral Data Fabric allows a mix-and-match of these tiers within a single cluster, simplifying provisioning and management of data.

MATCH YOUR STORAGE WITH THE TIERING LIFE CYCLE

Associate any tier with all-flash performance or spinning disks to form a combination

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