Datasheet

NetApp Cloud Tiering Service

Automatic, seamless, and continuous tiering of infrequently accessed data from on-premises to cloud object storage.

Key Benefits

- Shrink your storage footprint with 70% savings.
- Extend your storage by up to 20X more space.
- Reduced TCO by 42% cost savings.
- Zero changes to applications.

The Challenge

In our data-driven and dynamic era, enterprise IT professionals often need to deal with extremely fast rate of data growth that causes the data center high-performance SSD storage space to run out faster than what was planned, while dealing with an inefficient use of their highly expensive storage and with growing compliance and regulations that mandates preserving data for long retention easily accessible. In some cases, an enterprise changes strategy and decides to adopt the cloud in order to increase business agility, or to change from a CAPEX to an OPEX business model. In other cases, enterprise operations are looking for ways to reduce the total cost of ownership (TCO) or simply reduce the upfront cost of a future high-performance SSD storage space purchase. In either case, the enterprise IT and storage professionals need to deal with the fast-paced ever-growing data, inefficient capacity usage and laws.

NetApp Cloud Tiering Service—Intelligently dealing with data growth

The NetApp® Cloud Tiering service offers a simple, secure, and seamless way to move your infrequently accessed data to any cloud-based object storage from your on-premises NetApp AFF and SSD-backed FAS systems without compromising on performance. Whether it's file based NAS datasets (NFS, CIFS) or SAN datasets (iSCSI, FCP, FCoE, NVMe-oF), Cloud Tiering, powered by NetApp FabricPool technology, identifies the infrequently accessed data and automatically move it for you. Once your infrequently accessed data is transferred, it's fully accessible without any need to change the way it was accessed or to re-architect applications. Cloud Tiering continuously scan your data, identifying frequently and infrequently accessed data blocks and based on user-defined cooling period it leaves the frequently accessed data blocks on the SSD performance tier and move the infrequently accessed data blocks to the cloud tier as objects. Whenever inactive data is requested, Cloud Tiering will bring it back from the cloud tier to the on-premises performance tier.

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Cloud Tiering Use Cases

Cloud Tiering can be used in various use cases, including cloud onboarding, as part of a data protection strategy but mainly to reclaim capacity on primary storage and shrink secondary storage footprint.

In any use case, tiering your infrequently accessed data to an object storage is challenging because massive amounts of data need continuous scan to identify the infrequently accessed data, then package it appropriately - based on the object storage used, and tier it forth and back, when data is read, securely.

Issues such as bandwidth rate, process flexibility, costs, tracking errors and failures, recovery mechanisms, and overall ease of use, especially at-scale, should be handled as well. Cloud Tiering service was designed exactly for this purpose - to intelligently and efficiently move infrequently accessed data from on-premises NetApp storage to on-prem or cloud-based object storage without compromising on anything.

Zero-effort data center extension to the cloud

Easy and a safe first-step to a cloud strategy

No changes to the application layer while maintaining current workflows and process

AFF and SSD-backed FAS capacity optimization

Scale your capacity to virtually infinity

Free up valuable SSD space and use it for more demanding workloads

Safe and Secure

Data is encrypted in-flight and at-rest

AES-256-GCM encryption is maintained on the performance and cloud tier and over the wire

Cost Reduction and Cloud Economics

Reduce expensive data center footprint

Shift most of your data to a lower-cost object storage with flexible consumption (pay-as-you-go only for tiered data and/or BYOL) and move from CAPEX to OPEX consumption model

Intuitive Management and Tiering Optimization

Unified simple user interface, monitoring and reporting

Automation of cloud settings and choose the best fitted tiering policy for any dataset

About NetApp

NetApp is the data authority for hybrid cloud. We provide a full range of hybrid cloud data services that simplify management of applications and data across cloud and on-premises environments to accelerate digital transformation. Together with our partners, we empower global organizations to unleash the full potential of their data to expand customer touchpoints, foster greater innovation and optimize their operations. For more information, visit www.netapp.com. #DataDriven

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