Tiering NetApp ONTAP Data to Wasabi with FabricPools

Reduce On-Premises Primary Storage Footprints and Associated Costs

Most organizations are struggling to keep up with their high-performance storage needs due to unprecedented data growth. Industry-leading studies show that inactive data accounts for more than 50% of total storage capacity. This inactive data typically sits on expensive local high-performance storage, increasing manageability complexity and costs. In order to mitigate these challenges, NetApp recommends the use of FabricPool. FabricPool is a NetApp Data Fabric technology that enables automated tiering of infrequently accessed data and NetApp ONTAP Snapshots to Wasabi.

FabricPool is transparent to applications and allows organizations to take advantage of Wasabi cloud economics without sacrificing performance or having to rearchitect applications. Support for Wasabi cloud storage was made available with the ONTAP 9.7 release in June 2020. The NetApp products that support FabricPool tiering data to Wasabi are:

- AFF (All Flash FAS)

- SSD aggregates on FAS systems

- FAS2620-50, FAS2720-50, FAS8020-80, FAS8200, FAS8300, FAS8700, FAS9000

- ONTAP Select

Infrequently accessed data is an inefficient use of high-performance NetApp local storage. Tiering this data to Wasabi is an easy way to reclaim existing capacity. Active data remains on high-performance SSD and HDDs while inactive data is tiered to Wasabi, preserving ONTAP functionality and data efficiencies. FabricPool has two primary use cases:

- Reclaim capacity on primary storage

- Shrink secondary storage footprint

Key Features

- Ultra-low-cost pricing

- Instant accessibility

- Regulatory compliance

- Industry-leading performance

- Native NetApp data format

Benefits

- Reclaim space on primary storage

- Reduce TCO of on-premises storage

- Reduce cloud migration complexity

Three Options for Cloud Tiering NetApp ONTAP Data to Wasabi (Snapshot-only, Auto, All)

Snapshot copies can frequently consume more than 10% of a typical storage environment. Although essential for data protection and disaster recovery, these point-in-time copies are rarely used and are an inefficient use of high-performance NetApp local storage. Snapshot-Only, a volume tiering policy for FabricPool, is an easy way to reclaim storage space. When configured to use this policy, Snapshot blocks in the volume that are not shared with the active file system are moved to Wasabi.

Auto

The Auto volume tiering policy, moves all infrequently accessed blocks in the volume, not just blocks associated with NetApp Snapshot copies, to Wasabi. If read by random reads, these data blocks on Wasabi become active and are moved back to the local storage.

All

Another option is to use FabricPool to move entire volumes to Wasabi. Completed projects, legacy reports, or historical records—any dataset that must be retained but is unlikely to be frequently read—are ideal candidates to move to Wasabi. Moving entire volumes is accomplished by setting the All volume tiering policy on a volume. Data in volumes using the All tiering policy, are immediately tiered to Wasabi.

Wasabi Hot Cloud Storage for Cloud Tiering with NetApp FabricPools

Wasabi hot cloud storage is a universal, one size fits all cloud object storage service that eliminates confusing storage tiers and satisfies nearly all storage performance requirements. Wasabi costs less than traditional cold storage service and is significantly faster than traditional frequent-access storage services. With Wasabi hot cloud storage all data is treated equally and made readily accessible no matter how you classify it, hot, cool or cold.

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