IT infrastructure generates massive streams of machine data every day, and thousands of organizations are deploying Splunk Enterprise to analyze their machine data in order to gain valuable operational intelligence. However, the deployment and optimization of Splunk presents complex storage sizing challenges. How much flash-based storage do you allocate for the Hot/Warm buckets? Bad decisions coupled with unpredictable future search requirements can result in poor cluster performance, inefficiencies and reduced insights. Splunk’s storage tiering exists for only one reason – optimizing storage costs. If storage costs weren’t an issue, flash would resolve this tradeoff.

The VAST Data COLD.FLASH architecture takes the guess work out of Splunk storage sizing by significantly reducing the SSD capacity (up to 70%) within each Index server (1 day of Hot/Warm) and utilizes VAST Universal Storage to provide the scalable all-flash cold buckets to accelerate search performance, regardless of the data volume. The VAST All-Flash shared storage cluster combines QLC Flash, low-overhead next generation erasure codes and global data reduction (Splunk=3.6:1) to enable a lower total cost of Splunk storage acquisition without the limits of slow buckets.

DElIVERING SUPERIOR VALUE FOR SPLUNK ENVIRONMENTS

**All-Flash, Hot Performance**
Sub-millisecond read latency for all Splunk data.

**Cold Economics**
60% less expensive than tiered DAS storage.

**100% Supported Configuration**
A Small Amount SSDs or Optane for Hot/Warm buckets, VAST NFS for cold buckets.

**No SmartStore Complications**
Cold Buckets are better for long-term, replicated search.

**Exabyte-Scale**
Scale Splunk to support any retention period.

**Ideal for Splunk Serviceability**
Minimizing the DAS footprint makes it easy and fast to upgrade Splunk clusters.
ELIMINATE TIERS WITH COLD.FLASH

Never move data between buckets. Get up to 30X better performance.

CLASSIC SPLUNK INDEXER CLUSTER

DAS, SAN, NAS

Tiered

Smartstore Cache

400TB STORAGE NEEDED

19 INDEXERS NEEDED

38 RACK UNITS NEEDED

SMARTSTORE INDEXER CLUSTER

Tiered

Hot

Smartstore Cache

230TB STORAGE NEEDED

7 INDEXERS NEEDED

18 RACK UNITS NEEDED

SHARED EVERYTHING INDEXER CLUSTER

Tiered

Hot

Smartstore Cache

105TB STORAGE NEEDED

5 INDEXERS NEEDED

15 RACK UNITS NEEDED

VAST INNOVATION DELIVERS DRAMATIC SPLUNK SAVINGS

The Lowest Cost All-Flash
Saves 60%+

Erasure Codes With Only 3% Overhead
Saves another 25%+

New Global Compression
Saves another 50%+

Storage Revolution
60% less than DAS

To learn more about how unconventional thinking can solve decades of tradeoffs, contact us today.