ArcaStream

Ngenea HSM High Performance Tiering for IBM Spectrum Scale

Highlights

Save Money
Cuts storage costs by migrating inactive data from expensive tier 1 storage to low cost object, tape or cloud storage

Multi-node Migration/Recall Performance Acceleration and High Availability
Migration and recall can be spread over an unlimited number of multiple servers in parallel, delivering extraordinary performance and high availability

High Performance Data Access
Files are directly accessed from high-speed IBM Spectrum Scale storage as needed – intelligently moves data to lower cost storage, while maintaining a single view of all data

No Change to Original Data Path for Applications or Users
Applications and users access migrated files without any change in file path – files are recalled to primary storage directly upon access

No Capacity-based Licensing
Industry unique fixed price license, no penalty for extended use, the more you store, the more cost effective

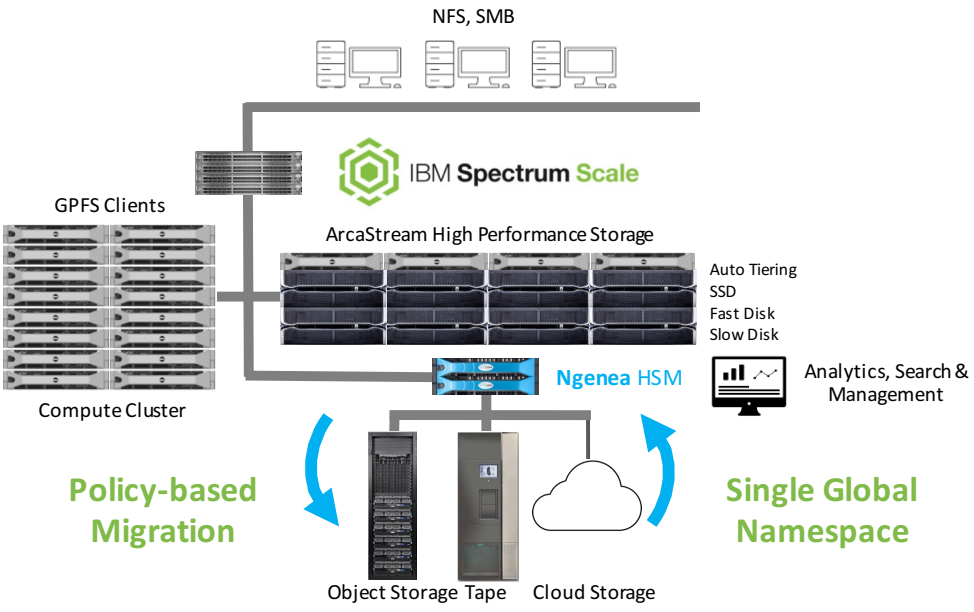
Unprecedented Storage Usage Insight with Advanced Analytics
Real time performance, history and trending with reporting about data and its contents through a simple and intuitive graphical interface

Complete Data Awareness and Lightning Fast Search
User defined metadata harvesting, tagging and easy search for data

Cut Costs While Gaining Unprecedented Data Visibility and Search Capability
Ngenea HSM is an extremely fast, highly scalable, data management layer unifying IBM Spectrum Scale, object and cloud storage into a single IBM Spectrum Scale global namespace. Ngenea HSM transparently tiers files from expensive high-performance storage to highly protected object, tape and cloud storage – lowering storage costs and freeing local storage space. Files are accessed directly from high-speed IBM Spectrum Scale storage when needed.

Transparent to Users and Applications
Applications and users see the same file system no matter where the data is stored, with no change to user or program access. Ngenea HSM leaves a stub upon file migration, so data still appears in the IBM Spectrum Scale namespace. Transparent, high speed recall occurs on file stub interaction. Automated migration and recall of data occurs in the background between Spectrum Scale and external tiers completely invisible to the user or applications.

Future Proof Open Data at Rest
Ngenea HSM retains the full path and filename upon migration to a target so users and applications can read data directly from object storage, enabling a seamless workflow and access to dozens of cloud-resident applications and unlimited computing power for analysis. Ngenea HSM ensures data is always available in an open accessible format, with no vendor lock-in. Ngenea HSM allows organizations to adopt new and lower cost technologies as they become available, without forcing wholesale data migrations from one tier to another. This combination of features allows the growth of data to be handled cost-effectively over many years while increasing user productivity.



Ngenea HSM for IBM Spectrum Scale

Works with both IBM Spectrum Scale Standard and Data Management Editions

Unlimited support for IBM Spectrum Scale Standard Edition licenses significantly reduces costs – no need to upgrade to Data Management Edition

Data Integrity and Protection

Checksums are calculated on migrated and recalled data and enhanced long term data protection is provided by object, tape and cloud storage offerings

Simple Administration

Uses IBM Spectrum Scale's Native ILM Policy engine to provide policies for migration of data – which are easily customizable to match any data workflow that suits your needs

Open Data at Rest: Migrated Data is Accessible Natively from Object and Cloud Storage

Users and applications can read data directly from object storage, providing a seamless file delivery workflow and access to dozens of cloud-resident analysis applications and unlimited computing power

Multiple Storage Targets

Ngenea HSM can migrate files to different storage targets based on business needs, and select the best target available, responding to changes in technology without requiring any changes to usage or applications – while retaining a simple and consistent central single namespace

Multi-protocol Access

Data accessible through SMBv2/3, NFS, FTP, HTTP, S3, HDFS and POSIX GPFS

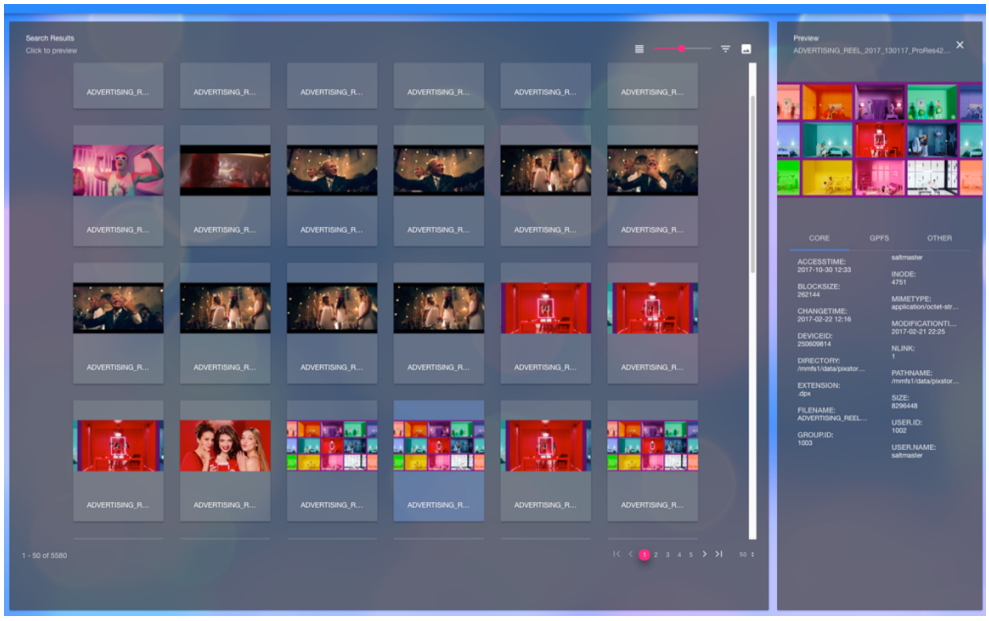
Unprecedented Data Awareness with Ngenea HSM Capacity Analytics

Ngenea HSM comes with a dynamic analytics engine that that provides information on how data is being created and used over time. This intelligence gives administrators the insight needed to make the right expansion decisions and provides a robust reporting mechanism for chargebacks.

Ngenea HSM Capacity Analytics

Powerful, Easy Search Capabilities

Finding migrated data among vast cloud or object stores is easily facilitated with the included search function that can automatically harvest user and application metadata from files allowing lost files to be found by metadata type with simple drill down interface that generates proxy images, videos, audio and documents for quick browse.



Powerful, Easy Search Interface

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