StorageX for StorageGRID

Enterprise data management at scale

Key Features

Business Value Benefits
- Transform data from a storage burden to an information asset
- Deploy a fast and highly automated file migration solution to move cold data to object and hot data to flash
- Use metadata to optimize durability, availability, performance, and protection through NetApp® StorageGRID® intelligent data management policies
- Unlock the value of your data with metadata search integration

Solution Highlights
- NetApp StorageGRID object storage with StorageX optimizes data placement from NAS to object storage
- Analyze legacy environments and drive data placement across cloud and on premises object and flash

The rapid adoption of cloud technology such as object storage is driving new value and efficiencies for customers with new datasets. You can now look to existing data repositories that are stored on file systems and realize the benefits of object storage. Existing data is typically isolated and is accessible only by the original storage protocol. The ability to move data from a file to an object and back again enables breakthroughs because data can now be mined through advanced analytics. You also achieve greater efficiency as cold data is moved from expensive primary storage to cost-effective NetApp StorageGRID object storage.

How StorageX and StorageGRID Work Together

The Data Dynamics StorageX platform gives you a full suite of data management solutions, from analytics to archiving to data migration. StorageGRID provides enterprise-grade hybrid cloud object storage. StorageX can discover and analyze your data to migrate to StorageGRID. As your data is migrated, you can assign custom metadata (in addition to file metadata). StorageGRID then leverages this metadata to assign intelligent data management rules to define durability and performance and to balance costs. Examples of StorageGRID data management policies include:

- Make two copies of an object for 30 days, then move to geo-distributed erasure coding
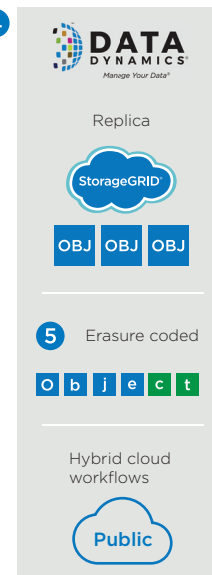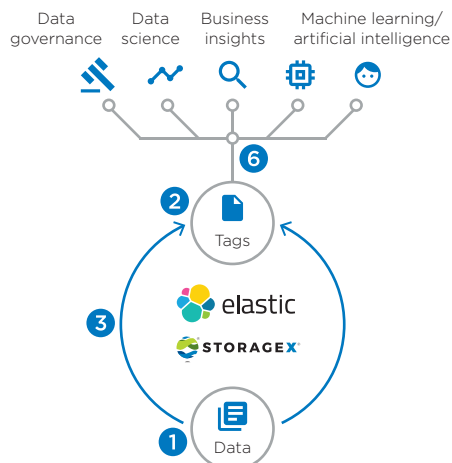- Define locality to comply with regulations

Hybrid Cloud

StorageGRID also enables hybrid cloud workflows, such as data replication to other Amazon S3–compatible clouds or use of Amazon Simple Notification Service to invoke serverless compute functions against on-premises data. StorageX excels in these workflows as tags and custom metadata are added to the object as it is transformed from a file. This process of tagging during the conversion turns files into information.

Scalability and Simplicity

StorageX can be deployed on a single virtual server, giving you a single pane of glass for moving data from many data sources. One StorageX Universal Data Engine (UDE) can analyze and transform hundreds of terabytes. Adding UDEs is a simple process and enables you to scale to petabytes of data. StorageX also provides a robust REST API, which you can integrate as part of any workflow.

DATA DYNAMICS®
Manage Your Data®

NetApp®

Digital Enterprise Data Management

NetApp

1. Analyze file Systems (SMB/CIFS/NFS)

2. Add custom tags using StorageX®

3. Unlock your dark data

4. Upload data onto StorageGRID®

5. Apply intelligent data management policy

6. Get enriched native S3 data value

Data governance Data science Business insights Machine learning/artificial intelligence

Tags

elastic

STORAGEX

Data

DATA DYNAMICS — Manage Your Data®

4 Replica

StorageGRID

OBJ OBJ OBJ

5 Erasure coded

O b j e c t

Hybrid cloud workflows

Public

PROBLEM	SOLUTION
Data is isolated in a local file system	StorageX analyzes and migrates data to StorageGRID object storage, enabling advanced analytics and hybrid cloud workflows
Expensive primary storage is consumed by cold data	StorageX analyzes and intelligently migrates data to cost-effective StorageGRID object storage
Datasets require file and S3 access	StorageX provides an API for programmatic retrieval or a portal for you to log in and retrieve your data

Table 1) StorageX and StorageGRID solutions to common IT problems

Conclusion

Combining StorageX with StorageGRID can help your IT organization drive more value from your existing data by providing a policy-driven conduit from a file to an object while freeing up expensive primary storage.

About Data Dynamics

Data Dynamics is a leader in intelligent file management solutions that empower enterprises to seamlessly analyze, move, manage, and modernize critical data across hybrid, cloud, and object-based storage infrastructures for true business transformation.

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