TECHNICAL OVERVIEW:

# Hybrid Cloud Management with Data Dynamics

The world of **distributed computing** is a wonderful thing. Users can work remotely on cloud-based servers across the globe with no more effort than accessing a filer in the server room down the hall. Cloud resources enable you to more easily scale out your environment, decentralizing your IT setup and getting rid of a lot of the hassles of locally-hosted machines.

A **hybrid cloud** setup, in particular, which melds both your **on-prem private cloud** and one or more **public cloud** offerings into a single overarching infrastructure, can be a major benefit to your business, letting you take advantage of both local data storage and processing and the scalability of cloud-based services. This decentralized approach gives you flexibility and cost-efficiency when handled properly.

That hybrid approach does come with a cost, however: now you have to **manage that environment.** You suddenly find yourself with both private and public cloud storage on a half-dozen different internally- and externally-hosted platforms, plus your legacy hardware in multiple locations scattered around the world, and you need to ensure that **it's all accessible** to your users and customers at any time and from anywhere.

Managing this kind of hybrid cloud/on-prem environment can be painful and can require both time and money to handle – time and money that would be better spent on other things, in a lot of cases.

## With StorageX, you can take control of your **hybrid cloud environment** and better manage your resources using the following features:

### 1 Multi-format Resource Management:

If it's in your on-prem or cloud environment, StorageX can manage it, from NetApp filers to S3-format object storage.

### 2 Single Pane of Glass

You can view and interact with all of your resources, whether file-based, object-based, or cloud-based, in the same window of the StorageX Console.

### 3 Enhanced Visibility

With this collected, all-in-one-place view of your data, you get a better overview of your storage footprint as a whole.

## Managing All Your Resources

While every enterprise wants to be able to standardize on a single platform, operating system, or set of protocols, that rarely happens in the real world. If your company is like most, you've got **layer upon layer of legacy systems,** servers and filers purchased during one tech refresh or another that haven't been replaced by newer hardware, and all of storing data you may need in the future.

Add to that the complexity of **on-prem private cloud** setups hosted in your data centers, and a variety of **public cloud** deployments of all different kinds, and you're looking at a murky soup of IT resources spread across your environment. Managing that soup can become a whole job unto itself.

This is why StorageX exists, to provide a **single, centralized hub** to monitor and manage your disparate resources, regardless of their type, platform, or protocol. The product began by managing **CIFS/SMB shares** and **NFS exports** but has since broadened dramatically to incorporate support for **object storage** and non-object **cloud storage.**

## Viewing Your Resources in a Single Place

The **StorageX Console's Storage Resources** view lets you **add, monitor, and manage all types of resources,** from Windows servers to Azure Blob, and do it all from one single location, without needing to go to multiple dedicated, platform-specific user interfaces.

StorageX works with the various resource types and endpoints to pull information about your resources and present it in a meaningful way. You can then **move data** to and from different resources and resource types, using both the StorageX Console and the **StorageX Management Portal,** as necessary for your enterprise.

If a resource isn't responding because of a network failure or power outage, you can quickly see that state in the **Storage Resources** grid and take action to resolve any issues before they have a larger impact.

## Leveraging Enhanced Visibility

With all of your resources collected and viewable in one place, you not only have the ability to keep an eye on the status of those resources but **gather information on the data** stored on those resources.

After you add your resources in the StorageX Console, you can use the StorageX Management Portal and StorageX Metadata Service (MDS) to **scan your resources** and collect file and folder metadata. With the analytics capabilities built into StorageX, this metadata gives you a more accurate picture of how your storage is actually being used on a daily basis – does anyone use these old filers? Which locations are using your private cloud the most? Is it worth what my company is paying every month to have this level of object storage available?

You can leverage this additional information about your data to **optimize and prioritize your overall storage environment,** paring back where you need to and expanding where it makes the most sense.