

NetApp and IBM Cloud: Data Migration and Tiering



Get your data to IBM cloud faster and easier with NetApp Cloud Sync, and keep it there more cost effectively with NetApp FabricPool.

The challenge

In our data-driven and dynamic era, enterprise IT professionals often need to move large amounts of data between domains, platforms, technologies, and formats. In some cases, an enterprise changes strategy and decides to move to cloud to increase business agility, or to change from a capex to an opex business model. In other cases, enterprise operations decide to move from legacy to new technologies, or they need to consolidate platforms due to corporate mergers. In either case, the enterprise IT and storage professionals need to move data, migrate data, and transform and sync data.

Depending on the size and type of dataset you are working with, the task of migrating data to a different site, technology, or format can be quite daunting—and costly. It's helpful to consider these serious questions:

- How do you effectively and securely get your dataset to the new target?
- How do you transform to the new format and structure?

IBM Cloud

- How long is it going to take?
- How do you keep it up to date?
- How much will this process cost?
- How do you validate that the migrated data is consistent and complete?
- How do you control the costs of storing data in the cloud?

The solution

The NetApp® Cloud Sync service offers a simple, secure, and automated way to migrate your data to IBM Cloud. Whether it's a file-based NAS dataset (NFS or CIFS), Amazon S3, Amazon EFS, NetApp Cloud Volumes Service Storage, Azure Blob, Azure NetApp Files, GCP Object Storage, IBM Cloud Object Storage or NetApp Storage Grid®, Cloud Sync can convert and move it for you.

After your data is transferred, it's fully available for use on both source and target. Cloud Sync continuously syncs the data, based on your predefined schedule, moving only the deltas, so time and money spent on data replication is minimized.

To help control costs once your data is in the IBM Cloud, NetApp FabricPool (a feature of NetApp ONTAP® software) automatically and transparently tiers cold data to lower cost IBM Cloud Object Storage. This allows you to reclaim capacity on your higher performance storage without sacrificing data accessibility or protection.

Use Cases

Cloud Sync can be employed in various use cases, including IBM Cloud onboarding, data migration, data tiering, data archiving, data consolidation and collaboration, data protection, big data analytics, and more.

In any use case, transferring your data to the IBM Cloud can be challenging. Because of the massive amounts of data, issues such as transfer speed, data security, process flexibility, costs, tracking errors and failures, recovery mechanisms, data compatibility, and overall ease of use are critical for the success of enterprise data migration. Such operation requires a solution that can carry out the scale and complexity of your data. Developing in-house tools might mean

Key benefits

Simplify and accelerate migration

- Get a rapid and secure data migration and synchronization service that can operate with any source and target.
- Automate migration of data to IBM Cloud.
- Continuously convert and copy your file-based data by using a cost-effective SaaS service.

Reduce TCO

- Automatically tier data to the most cost-effective IBM Cloud storage.

untested solutions, spiraling costs, and a repeating process of trial-and-error failures.

But Cloud Sync was designed for exactly this purpose—to move data from any source to any target. It supports all formats, and has built-in mechanisms for tracking and logging errors, recovery, and continuous sync schedules. When combine with FabricPool, you get a solution that spans your entire data lifecycle.

Why NetApp Cloud Sync and FabricPool with IBM Cloud?

- **Quick and efficient** with continuous, automated data synchronization. Cloud Sync provides extremely fast data movement compared to other synchronizing solutions.
- **Safe and secure with** delivery assurance based on built-in data protection. Offers secure data storage and transport with support for VPN and VPC.
- **Hybrid data environment in sync** allows you to bring your data center and the IBM Cloud together. Realize the power of the Data Fabric with the ability to get your data where you want, when you want, and in any format.
- **Intuitive and easy to use** with a simple user interface and monitoring tools. Automate complex data migration processes by using a simple drag-and-drop wizard and monitor progress with designated tracking tools.
- **Lower TCO.** Automatically tier data to the most cost-effective IBM Cloud storage, without sacrificing security or accessibility.

About IBM Cloud

IBM Cloud ensures seamless integration into public and private cloud environments. The infrastructure is secure, scalable and flexible, providing customized enterprise solutions that have made IBM Cloud the hybrid cloud market leader. Products and services include bare metal and virtual servers, networking, turnkey big data solutions, private cloud solutions, and more. Our unique advantages include the industry's first Network-Within-a-Network topology for true out-of-band access, and an easy-to-use customer portal and robust API for full remote-access of all product and service management options. For more information, visit www.ibm.com/cloud.

For more information, contact us:

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Additional resources:

www.ibm.com/cloud/object-storage

About NetApp

In a world full of generalists, NetApp is a specialist. We're focused on one thing, helping your business get the most out of your data. NetApp brings the enterprise-grade data services you rely on into the cloud, and the simple flexibility of cloud into the data center. Our industry-leading solutions work across diverse customer environments and the world's biggest public clouds.

As a cloud-led, data-centric software company, only NetApp can help build your unique data fabric, simplify and connect your cloud, and securely deliver the right data, services and applications to the right people—anytime, anywhere. www.netapp.com

