

# High-Speed Data Migration with IBM Aspera

Fast, secure, and reliable transfer to, from, or between any leading cloud or on-premises data center.

**31 REGIONS**  
Across all major cloud providers

**100 TB** Migrated to the cloud over a 10 Gbps line  
**IN 24 HOURS**

**MILLIONS OF FILES**  
migrated with ease and speed

### Key Capabilities and Features

- Instant access to the industry leading cloud providers
- End-to-end security that protects data throughout the process
- Scalable, reliable and ultra-fast data migration to cloud object storage
- Data synchronization with the cloud after migration
- Deployment options that fit your unique migration environment

### Supported Deployment Environments

- On-premises to cloud
- On-premises to hybrid cloud
- On-premises to on-premises

IBM Aspera software overcomes the challenges of moving your data to the cloud. Traditional transfer software technologies are slow and unreliable, and shipping physical disk storage is time consuming and exposes your data to unnecessary security risks. Aspera offers high-speed data transfer that uses the public internet to securely and reliably migrate large amounts of data to, from, or between any major cloud.

### Dramatically reduce your migration window - Move 100TB in 24 hours

Aspera offers unrivaled performance for transferring large files and large collections of files across any distance to, from or between clouds. Over a 10Gbps network, organizations can move 100TB in 24 hours regardless of round-trip delay or packet loss. Aspera’s clustering technology means that this number scales linearly with available bandwidth, and the small window minimizes the opportunity for data to get out of sync during migration. Upon completion, data synchronization with the cloud can easily continue via network transfers.

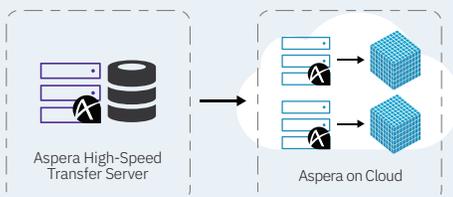
### Lower your migration costs using a streamlined direct-to-cloud transfer

Aspera’s direct-to-cloud transport technology moves data from the client all the way into the cloud storage layer, with no stop-offs in between. A single data transfer session allows Aspera to consistently deliver high speeds along the entire data path.

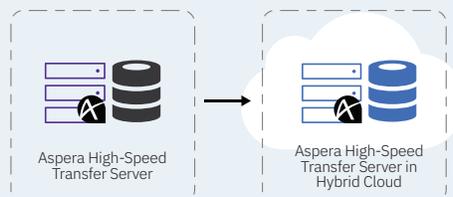
### Eliminate the risks associated with physical disk shipments

Enterprise-grade security protects valuable data during the entire transfer. Aspera’s technology platform supports a complete end-to-end security model: authentication, encryption in-transit and at-rest using strong cryptography, data integrity verification to protect against man-in-the middle attacks, and FIPS 140-2 compliance. In addition, Aspera eliminates the labor costs associated with loading & unloading physical transporters.

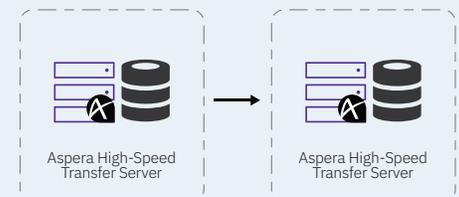
### On-Premises to Cloud



### On-Premises to Hybrid Cloud



### On-Premises to On-Premises



Aspera offers an **86% improvement** over physical transfers and **99.9% improvement** over TCP transfers

## Time to transfer 100 TB from US to Europe

**IBM Aspera\***

**24 hours**



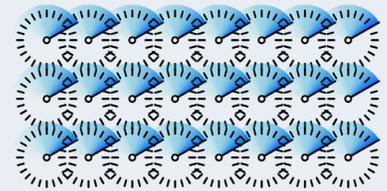
**Physical Transfer**

**7 days**



**TCP Transfer\***

**1 year**



**\*over a 10 Gbps network with 100ms latency and 1% packet loss**

### Instant access to the industry-leading cloud providers

- Support for leading public clouds - IBM Cloud, AWS, Azure, and Google Cloud Storage.
- Platform-specific role based access control - Connect to cloud storage via its native identity system.
- Support for advanced cloud storage features - AWS S3, Glacier, Infrequent Access, Reduced Redundancy, and KMS (Server side key), Azure Files storage, Cool Storage, ICOS.

### End-to-end security that protects content throughout the process

- Built-in encryption – built in over-the-wire encryption and encryption-at-rest.
- Secure authentication and access control – built in multi-tenant support implemented using private cloud credentials. Support for configurable read, write, and listing access per user account.
- Integrity verification - data integrity verification for each transmitted block.

### Scalable, reliable and ultra-fast data migration to cloud object storage

- Leverage Aspera SaaS solutions, deploy on-premises software, or combine the two to create the right solution for your requirements.
- Automate the migration using a powerful workflow engine and a set of pre-built, customizable workflows.
- Ability to access real-time dashboards that show all transfer activity and allow full control over file transfers, priority, and bandwidth control.
- Sync your data with the cloud once it is migrated.
- Get started quickly by tapping into the Aspera expertise and best practices of IBM's Lab Services team.

Questions? Learn more at [www.ibm.com/aspera](http://www.ibm.com/aspera) or contact Aspera Sales at [aspera-sales@ibm.com](mailto:aspera-sales@ibm.com)