

A fast, simple, and secure way to move data to Archive2Azure

The Challenge: Transferring large data sets to the cloud

Customers tell us that their on-premises storage systems are overflowing, causing them to continuously purchase additional, expensive enterprise storage. The cloud is the obvious place to store this growing mountain of data, but how can you move the resulting huge data sets into the cloud quickly and securely?

For data transfer, networks are the best first choice; however, if the size of the data sets is very large (terabytes to petabytes) or your network is overburdened and slow, moving data into the cloud in this way can be a challenge in both time and cost. For example, 1 PB of data would take approximately three years to migrate into the Azure cloud using a network connection with 100 Mbps of available bandwidth. Fortunately, there's an alternate solution: The Azure Data Box.



The Azure Data Box – Fast, Simple, Secure

To effortlessly transfer large amounts of data to your Azure Cloud with minimal impact to the network, Microsoft created the Data Box—a fast, simple, and secure way to transfer huge data sets to Azure. It's perfect for moving aging or little accessed data, archives, aging tape backup data, VMs, or Big Data. Because Data Box utilizes the familiar Azure Portal for ordering and management, the Data Box is simple to use. And since it's Azure, it's extremely secure.

Fast

The Data Box is designed to move data to Azure quickly. With 10 Gbps LAN connections and overnight shipping, 85 TB can be transferred into Azure – start to finish – in less than ten days - which is comparable to a 1 Gbps network connection! This transfer speed allows large data sets to be cost effectively moved into Azure's secure and cost-effective cloud environment.

“...85 TB can be moved into Azure – start to finish – in less than ten days. That's as fast as a 1 Gbps connection!”

Simple

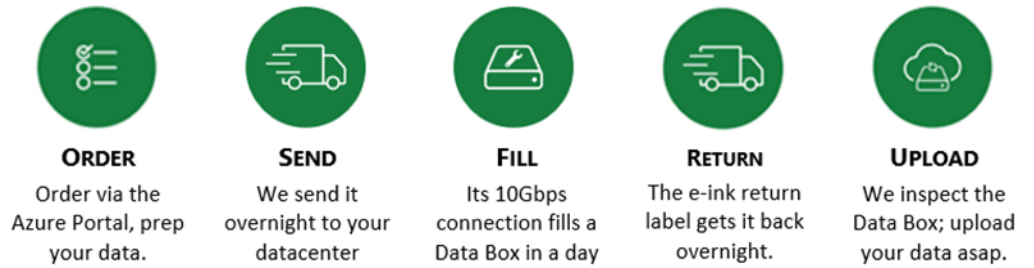
Everything about the Data Box is designed for simplicity. Ordering, loading, and shipment monitoring is done via Azure's familiar and intuitive portal. Simply connect Data Box to your network and start filling the Data Box. Even the shipping label, created using “e-ink” technology, is designed to simplify shipping to the Azure datacenter.

Secure

The Data Box protects your data with built-in, state-of-the-art security protections. The Data Box includes a hardened, tamper-resistant case to ensure your data arrives at the Azure data center in secure, pristine condition. Data is secured with 256-bit encryption and is only accessible with an encryption key, provided separately from the shipment. Once your data has been successfully uploaded to Azure, the Data Box is wiped and sanitized in accordance with NIST 800-88r1 standards.

How Data Box works

Files are copied into the Data Box, shipped overnight to the Azure datacenter, and then uploaded into Azure in blob or file format. Available Azure storage choices include Hot, Cool, and Archive storage tiers.



The Data Box has many uses

The Data Box can solve your data transfer problems in several ways. Here are just a few:

- **Workload migration** – The Data Box makes workload migration to the cloud easier by bypassing crowded or overburdened networks.
- **Archived data** – Reduce the costs and complexity of moving your semi-active or inactive data to the Azure-based Archive2Azure intelligent information management platform.
- **Remote office and branch office (ROBO)** – The Data Box overcomes the hassle of transferring data from remote office locations with limited bandwidth, with an easy and efficient alternate.

“Moving 1 PB of data over a 100 Mbps network would take over three years to complete!”

Data Upload Times to the cloud

The amount of data to be transferred and the capacity of your network will determine whether a Data Box is right for you. The table below outlines the approximate time it takes to transfer data to Azure at various bandwidth speeds. Data Box transfer is equivalent to the 1Gbps column.

Data Qty	45 Mbps (T3)	100 Mbps	1 Gbps	10 Gbps
35 TB	76 days	34 days	3 days	8 hours
100 TB	216 days	97 days	10 days	1 day
500 TB	3 years	1 years	49 days	5 days
1 PB	6 years	3 years	97 days	10 days

To find out more about Data Box and Archive2Azure, click the links below.

[Azure Data Box Website](#)

[Introduction to Azure Storage](#)

[Azure Storage Documentation](#)

[Archive2Azure Webpage](#)

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