CirrusData®

CIRRUS MIGRATE CLOUD
Azure Marketplace Offerings

CIRRUS MIGRATE CLOUD

- The fastest and most powerful tool for migration of block-level storage data to Azure Cloud

- Migrates data from on-premises systems to Azure Cloud, Cloud to Cloud, between Azure storage tiers, and between Azure subscriptions

- Patented cMotion technology provides truly seamless cutover to Azure storage with near-zero downtime, zero-RPO, and minimal impact on run-time performance during migration

MIGRATE 5TB FOR FREE

CIRRUS DATA AZURE CLOUD OFFERINGS

Cirrus Data Migration Use Cases for Azure
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1 | On-premises SAN / DAS block storage to Microsoft Azure

FC, iSCSI, SAS or other block storage

Data Center → Managed Disks

2 | Non-disruptive migration between Azure Tiers

Standard HDD, SSD, Premium SSD, UltraDisk, iSCSI Storage

Managed Disks

iSCSI Storage
UltraDisk
Premium SSD
Standard SSD
Standard HDD

3 | Migration into or from iSCSI virtual storage

→ Pure CBS, NetApp CVO, StorOne S1, Silk, etc.

Data Center — Managed Disks

NetApp Cloud — PURE STORAGE — storONE — Silk

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1.516.888.3397 | info@cirrusdata.com | www.cirrusdata.com

	Azure Marketplace Offering	Description
Data Migration	**Cirrus Data Ultra-Fast Migrate**	Cirrus Migrate Cloud (CMC) is the fastest, simplest and most powerful migration-as-a-service tool for migration of block-level storage data from anywhere to Azure Cloud. CMC provides exceptionally FAST block data migration from any storage host to any other storage host with minimal downtime or service disruptions (measured in minutes or seconds). CMC deploys self-contained, independent data movers as "thin agents" (called mTDI™) at each host for direct host-to-host secured data transfer. An off-site cloud-based CMC portal is used to manage the data movers in an as-a-service manner. This innovative solution makes it possible to have thousands of host-based migration sessions running without creating bottlenecks and without deploying any physical or virtual appliances.
	Benefits:	• **ZERO FOOTPRINT -** No deployment of any physical or virtual appliance needed at the cloud or on-premises locations. • **SIMPLE, SECURE DEPLOYMENT -** Simple, non-interactive single-line installation command that can be automated at scale using widely available orchestration tools. • **MINIMAL DOWNTIME END-TO-END -** Applications run continuously through deployment, migration, and without the typical "final sync" for cutover. The cMotion feature eliminates the typical "final sync" prior to cutover, thereby ensuring predictable cutover downtime to be just seconds or minutes.* • **LOW IMPACT TO PRODUCTION APPS -** During online migration, the iQoS automatically and dynamically adjusts migration aggressiveness to ensure I/O bandwidth is shared efficiently with user-selectable impact levels to production. • **AUTOMATION AND INTEGRATION -** Plug-ins for Azure native block storage, cloud virtual arrays, and on-premises FC/iSCSI arrays • **BUILT-IN REMOTE MIGRATION SUPPORT -** Direct Host-to-host TCP/IP protocol with encryption and data reduction. • **AUTOMATION TOOLS -** Destination storage integration and host remediation is built-in, thereby drastically eliminating steps such as setting up multipath, iSCSI connections, allocation of matching destination disks, and creation of host entities at destination storage.

* *cMotion* is a feature that seamlessly redirects I/O from the source storage to the destination storage, thereby ensuring no 'delta' during the final cutover. With cMotion, the final cutover is performed by simply bringing the source application offline and immediately bringing the destination online, which can be just seconds if using scripts for automation.

Azure Marketplace Offering	Description
Cirrus Data Ultra-Disk Optimize	Cirrus Migrate Cloud (CMC) is the fastest, simplest, and most powerful migration-as-a-service tool for migration of block-level storage data from anywhere to Azure Cloud. CMC provides exceptionally FAST block data migration service from any Azure Storage Tier to and from Azure Ultra Disk without downtime* or service disruptions. This innovative solution makes it possible to seamlessly upgrade Azure Storage on the fly to maximize performance of Azure hosted applications.
Benefits:	• **STORAGE TIER MIGRATION -** Ability to migrate volumes between different disks tiers inside an Azure cloud or 3rd party cloud virtual array** running in Azure while the application is still in operation. • **DRASTIC REDUCTION OR ELIMINATION OF DOWNTIME -** The cMotion feature redirects I/O from source storage to destination storage seamlessly without downtime.** • **LOW IMPACT ON PRODUCTION OPERATIONS -** The iQoS feature automatically and dynamically adjusts migration aggressiveness to avoid unacceptable impact to production. • **SCALE TO PETABYTES –** The solution uses distributed Migration Agents running at every host, with each performing data movement independently. For remote migration across regions/locations, a Direct Host-to-Host connection is made, making the solution infinitely scalable. There are no central bottlenecks for the dataflow, as each Host-to-Host migration is independent.

Note: The leftmost vertical column header is "Storage Optimization" spanning both rows.

* The *cMotion* feature of CMC eliminates downtime for clustered applications. For non-clustered instances, cMotion defers the downtime indefinitely until the source storage needs to be deleted.

** 3rd party cloud virtual arrays include Pure Storage Cloud Block Store, NetApp Cloud Volumes ONTAP, and any other deduped cloud storage.

	Azure Marketplace Offering	Description
Data Protection	**Cirrus Data Ultra-Disk Protect**	Cirrus Migrate Cloud (CMC) is the fastest, simplest, and most powerful migration-as-a-service tool for migration of block-level storage data from anywhere to Azure Cloud. In addition, CMC provides block-level snapshot protection for Azure Ultra Disks using the snapshot capabilities of a lower tier Azure Managed Disk. With REST API, this innovative solution makes it possible to customize for automated data protection across multiple sites with multi-directional replication and failover/failback capability.
	Benefits:	• **PERFORM SEAMLESS DATA TAPPING** with data integrity and security. • **ACHIEVE FULL DATA MOBILITY** and migrate data from any source to any source (local, remote, cloud). • **CUT STORAGE AND DATA TRANSFER COSTS** and increase efficiency dramatically. • **ADD DATA PROTECTION** to Ultra Disks using native Azure Disk snapshot capabilities. • **ADD BLOCK-LEVEL INTER-SITE DATA REPLICATION** for extremely efficient, more frequent synchronization of Azure Disks across availability zones, regions/locations, and even storage accounts or to physical sites.

CirrusData

The best tools for migrating and protecting your cloud and SAN block storage

About Cirrus Data

Cirrus Data Solutions Inc. (CDS) is a leading technology provider of next-generation solutions for data migration, data acceleration, and data protection. The company distributes its solutions through systems integrators, managed service providers, channel resellers, and partners including HPE, IBM, Dell/EMC, Insight, Pure Storage, Infinidat, Align, SHI, ePlus, Computacenter, Mainline, Sirius, WWT, and many others. CDS is headquartered in Syosset, New York and has offices located in Dublin, Ireland and Nanjing with sales and support offices in Boston and Chicago.

For more info, visit CDS online at www.cirrusdata.com.

Cirrus Data USA
6800 Jericho Turnpike
Suite 213W
Syosset, NY 11791

EMEA Headquarters
Unit 20A, Greenhills Industrial Est.
Greenhills Road, Dublin D12 E832
IRELAND

1.516.888.3397
info@cirrusdata.com
www.cirrusdata.com

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