> *"The Cirrus appliances worked really well for this project and I would recommend [Cirrus Migrate On-Premises appliances] all day for anyone wanting to migrate to Pure Storage non-disruptively."*
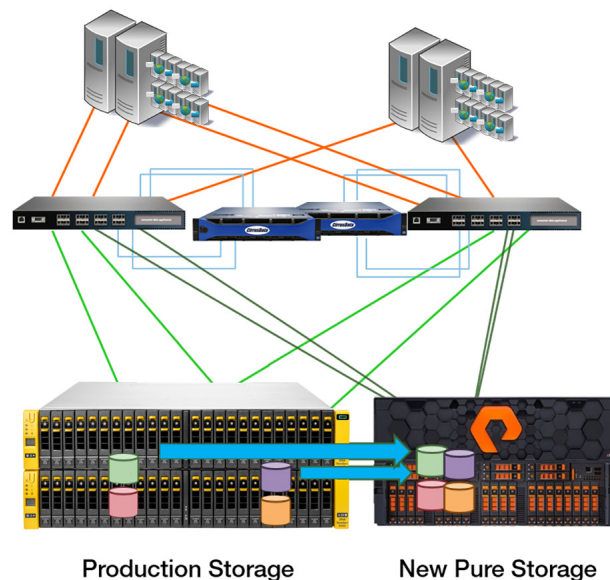> *-- Storage Specialist*

THE CHALLENGE

One of North America's largest food and beverage companies was embarking on a storage refresh project at two data centers serving a combination of over 600 ESX, Linux, and Windows hosts in a Brocade environment. The two sites had accumulated over 2PB of data and were moving from two 3PAR arrays at each site to two new Pure FlashArray units at each.

Because the company had allocated most of its upgrade budget to the storage itself, it was looking to the storage partner to make good on the migration part of the project. Heavy use of SQL clusters meant that they were extremely sensitive to any downtime, and when they discovered that Cirrus could migrate their databases without any downtime using our patented pMotion - enabling the new storage to stand-in for the old storage indefinitely even prior to final cutover, they scrambled to include that as part of the solution, even though the plans up to that point had called for local-only migration and the cabling had been configured for that type of migration.

THE SOLUTION

Cirrus Migrate appliances were placed into the FC fabric using Cirrus Data's patented TDI technology, which allows SAN insertion without any downtime and without making any changes to any host, the FC switch zones, or the production storage. With Cirrus Data's unique pMotion technology, the migration administrators were able to offer a truly zero-downtime data migration solution since pMotion enabled the new storage to stand-in for the old storage indefinitely allowing the client to remove the old storage—before final cutover.

Production Storage   **New Pure Storage**

The DMS Intelligent QoS feature (iQoS) allowed the maximum use of all available bandwidth for copying data without impacting production I/O quality, automatically throttling migration when the LUN was too busy. The entire process was transparent to the database applications and caused no impact to production. At cut-over, the database owner simply unmounted the database from the old storage and remounted on the new device in a few short minutes.

Upon project completion, the storage executive in charge of the migration noted, "The Cirrus appliances worked really well for this project and I would recommend [Cirrus Migrate On-Premises appliances] all day for anyone wanting to migrate to Pure Storage non-disruptively."

QUICK FACTS

Customer Type
Major US Food & Beverage
Company

Source Storage
HPE 3PAR 8440 Array
HPE 3PAR 20840 Array

Target Storage
Pure //X50 FlashArray
Pure //X70 FlashArray

Number of Hosts
200+ ESX VMs
130 Windows Hosts
200+ Linux Hosts

Total Data Migrated
2+ Petabytes

Host Applications
MS SQL Clusters

Replication Type
pMotion

Number of appliances
2 Cirrus Migrate On-Prem
per site

Insertion Method
Path Insertion

CHALLENGES

- A non-disruptive deployment for block migration
- Limited insertion and migration windows
- Databases required minimum impact on production performance
- Combination of ESX VMs, Linux Hosts, Windows Hosts

SOLUTION

- Cirrus Migrate On-Premises appliances inserted with no downtime
- Cirrus Migrate iQoS used to reduce or eliminate any impact to production environment
- pMotion allowed use of new storage without need to schedule immediate cutover

RESULTS

- Cirrus Migrate On-Premises migration was performed as data was actively being used
- Cirrus Migrate On-Premises flexibility allowed storage partner to reconfigure migration type on the fly, pleasing customer
- Storage partner gave the Cirrus Migrate solution and Cirrus Data high marks

ABOUT CIRRUS DATA

Cirrus Data Solutions Inc. is a leading technology provider of next-generation solutions for data mobility, specializing in block data migration and protection. The company distributes its solutions through systems integrators, managed service providers, channel resellers, and partners including HPE, IBM, Dell Technologies, Microsoft Azure, AWS, Hitachi, NetApp, Pure Storage, Infinidat, AEBS, AHEAD, CDW, SHI, Park Place, Presidio, ePlus, Insight, Computacenter, Sirius, WWT and many others. Cirrus Data Solutions is headquartered in Syosset, New York and has offices located in Dublin, Ireland, and Nanjing with sales and support offices in Boston and Chicago.

To begin your digital data transformation, visit Cirrus Data Solutions online.

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