DATA DYNAMICS

Case Study

From Complexity to Efficiency

How Swift Data Migration of 37.5 Million Directories within 48 hours Empowered a Leading Fortune 10 US-Based Technology Company to Streamline Operations and Stay Ahead in a Rapidly Evolving Digital Landscape

For a Fortune 10 US-based technology company, the task of migrating billions of files from NetApp's Infinite Volume to a Flex Group on the same cluster posed significant challenges. With a tight cutover window of 48 hours and millions of directories containing millions of files to be moved, the company sought a reliable solution. The answer came in the form of Data Dynamics Mobility Module, an efficient data migration software that not only met the complex requirements but also ensured optimal throughput and accuracy during the process.

Business Need

A Swift and Precise Data Migration

- **Migrating Billions of Files:** A mammoth task of moving billions of files from one storage system to another within the same cluster.
- **Meeting Cutover Window:** A challenging cutover window of 48 hours only to complete the entire migration.
- **Syncing Incremental Updates:** Ensuring that incremental updates in the files were seamlessly synced during the migration.
- **Optimizing Throughput:** Achieving optimal data transfer speeds while maintaining accuracy and efficiency.

Challenges Faced

Overcoming File System Updates and Glitches

- **Constant File System Updates:** Ongoing updates to the file system demanded additional efforts in comparison and synchronization during migration.
- **Strict Cutover Window:** The tight 48-hour window left no room for delays or inefficiencies.
- **Previous Tool Limitations:** The previous migration tool was unable to handle incremental copies efficiently, causing delays and glitches in the process.
- **Optimizing Throughput:** Striking the right balance between fast data transfer and accuracy posed a challenge.

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Solution Offered

Data Dynamics to the Rescue

To address the complex migration requirements, the technology company turned to Data Dynamics and experienced a range of benefits:

Single Pane View

Data Dynamics' Mobility Module provided a comprehensive view across the migration process, simplifying management and control.

Policy-Based Approach

Utilizing a policy-based approach, the migration process maximized data access, minimized cutover windows, user downtime, and disruptions related to file storage rebalancing, migrations, and tech refreshes.

Minimal Business Disruption

The seamless cutover process ensured minimal disruption to business operations, meeting the stringent 48-hour migration target.

Efficient Incremental Migration

Automated data replication policies facilitated the replication of source files to the destination location, including both baseline and incremental copies.

QoS Control

The software allowed setting Quality of Service (QoS) during replication to minimize the impact on clients.

Business Impact

A Remarkable Achievement in Data Migration

- **37.5 Million Directories Migrated:** A staggering 37.5 million directories, containing 977 million files, were successfully migrated within the 48-hour cutover window.
- **Enhanced Efficiency:** The automated data replication policies enabled efficient handling of incremental updates during the migration process.
- **Reduced Outage:** The accelerated migration process minimized disruption within the cluster, ensuring a seamless transition with minimal downtime.

Conclusion

Thanks to the power of Data Dynamics' Mobility Module, the Fortune 10 US-based technology company accomplished a remarkable feat in data migration. With billions of files seamlessly moved within a stringent 48-hour window, the company achieved enhanced efficiency and minimized business disruptions. The software's policy-driven approach and precise data synchronization capabilities proved invaluable, leaving the company poised for future data management challenges with confidence.

Your next chapter of success awaits; let's write it together with Zubin. Click here for a demo