SOLUTION BRIEF

High-Performance SQL Backup

Deliver faster, more efficient SQL backups with Pure Storage® FlashBlade® Unified Fast File and Object Storage.

Any environment running SQL requires regular backups to ensure data integrity. Yet as data volumes increase, Microsoft SQL Server database administrators have less time to perform essential tasks like data backup and routine testing and validation. While traditional backup appliances are designed to store data, they are notoriously slow at rehydrating and recovering data. Pure FlashBlade with native Server Message Block (SMB) support delivers scale-out performance across all the blades in an array. This removes the translation layers and provides an improvement of throughput performance up to four times over the previous SMB stack.

The Need for High-Performance SQL Backup

Microsoft SQL Server and other large database management systems (DBMSs) consume compute and infrastructure resources at rates rarely seen in other applications. They are typically an organization's primary data stores and can't be offline for any considerable time, if at all. But as the volume of data grows exponentially, managing SQL backup and recovery along with meeting strict service level agreements (SLAs) has become increasingly challenging as traditional data protection architectures struggle to recover at scale. In fact, as the amount of data protected increases, the slower traditional architectures recover.

Industry-Leading File and Object Storage with Multi-Protocol Support

Pure Storage FlashBlade is the leading Unified Fast File and Object (UFFO) storage platform. FlashBlade offers a single platform that provides native file and object protocol support without compromising performance or functionality, which enables consolidation of file and object workloads across a wide range of use-cases. With high-performance, scale-out Native SMB support for Windows users, FlashBlade allows you to better meet the performance demands of Windows-based applications such as Microsoft SQL Server.

Native SMB Support

Native SMB support delivers increased performance to all blades in the array, making SQL backup faster and more efficient.

Multi-Protocol Support

A single platform provides native file and native object protocol support without compromising performance or functionality.

Enhanced Scalability, Security, and Interoperability

Control access to buckets and objects via simple policies attached to users, rather than at the account level.

Figure 1. Using FlashBlade for high-performance backup and restore across multiple chassis for SQL Server.

An Ideal Platform for SQL Backup

FlashBlade's Native SMB support helps reduce the time for both backup and restore operations, creating an ideal platform for SQL backup operations and data consolidation. Native SMB on FlashBlade allows you to leverage Purity//FB file system features including:

- File system quotas
- File system snapshots
- File replication
- File system rollback

Additional Resources

- Find out more about Pure Storage Data Protection solutions.