

SOLUTION BRIEF

REPLICATION PROVIDES BUSINESS CONTINUITY FOR SAP HANA®

Use replication with any Pure Storage® FlashArray™ product to enable business continuity.

The SAP HANA database sits at the very center of your business operations. Because of the critical role it plays, its performance and reliability are tied to the performance and reliability of your business overall. When SAP HANA slows, so does your business. And when SAP HANA goes down, so does your business.

Every moment of SAP HANA downtime costs money—easily tens of thousands of dollars a minute according to some SAP customers.¹ So, it's not enough to have just any disaster-recovery (DR) plan in place. You need a business-continuity solution that keeps downtime to an absolute minimum, without impacting system performance. You need a reliable and high-performing solution that enables a low recovery-time objective (RTO).

With its built-in features, Pure Storage FlashArray storage meets your business-continuity needs. SAP HANA runs in memory, but also relies on a continuously updated copy in persistent storage to prevent data loss. If you store the on-disk copy of SAP HANA in any FlashArray product, you can use Purity asynchronous replication to enable near-real-time recovery in case of disaster.

Reliable, Resilient Disaster Recovery for SAP HANA

Combined with any FlashArray product, FlashArray asynchronous replication enables high-performance business continuity with a low RTO. Asynchronous replication is a multi-point feature that first replicates volume recovery points (snapshots) to any arrays in the FlashArray product family or any system running the Purity operating system (OS) software, such as Pure Cloud Block Store™ block storage. It then enables recovery from those same snapshots. The FlashArray targets can be anywhere in the world, driving true resiliency and business continuity, even when a disaster takes an entire region offline.

Another advantage of FlashArray asynchronous replication is that it offers recovery points for the entire SAP HANA landscape, including the operating system and all applications, rather than just SAP HANA data. This feature makes backup and recovery simple, reliable, and comprehensive.

Replication design options for disaster recovery among FlashArray units are flexible, supporting one-to-many, many-to-one, and many-to-many deployments. One-to-many enables a single FlashArray system to replicate snapshots to multiple other FlashArray systems, providing multiple disaster-recovery sites for fall back.

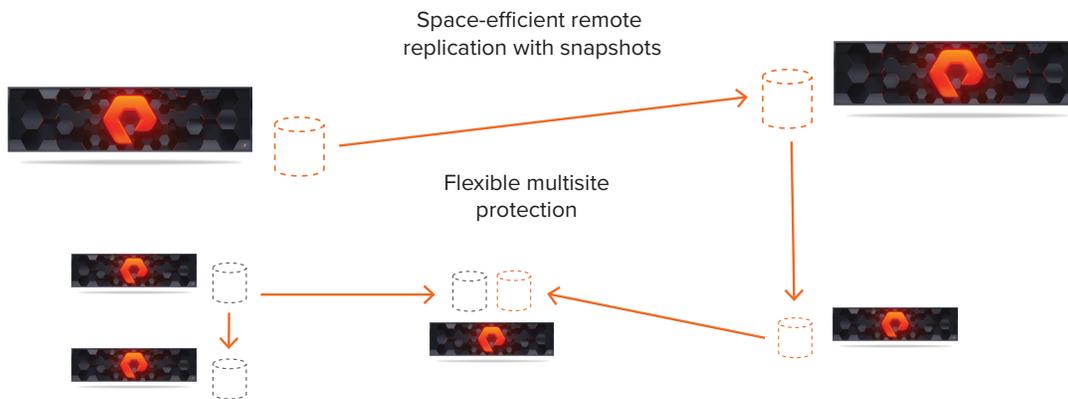


Figure 1. FlashArray asynchronous replication enables multisite data protection for SAP HANA.

High-Performance Disaster Recovery

Asynchronous replication delivers the high-performance disaster recovery and business continuity you need for SAP HANA. Snapshots are instantaneous, and replication doesn't affect the performance of FlashArray storage. Snapshots are also space-efficient thanks to deduplication, which reduces backup windows.

Asynchronous Replication: Business Continuity on FlashArray Solutions

The combination of the FlashArray snapshot functionality and multisite replication enables a reliable, high-performance, and low-RTO disaster-recovery solution for SAP HANA. Asynchronous replication is included with all FlashArray//M and FlashArray//X solutions. When you host SAP HANA on FlashArray storage, you can enjoy these business-continuity benefits without any additional infrastructure or licensing costs.

For more information about the data-protection solutions built into FlashArray storage, read the "[FlashArray Protection for SAP HANA](#)" white paper.

¹ "15 famous ERP disasters, dustups and disappointments," CIO, July 2017.