Certified, integrated backup for SAP HANA with HPE Data Protector

Hewlett Packard Enterprise

Overview

More and more customers are realizing the benefits of in-memory technology and are accelerating their plans to deploy existing SAP applications to SAP HANA. SAP HANA is SAP's in-memory computing platform that allows you to perform real-time analytics on large volumes of data at a very high speed. Because this is still a relatively new database technology, there are several HANA appliances available from multiple hardware vendors, however, there are not many backup and recovery solutions available in the market that work optimally with SAP HANA.

Customers who have already moved to or are planning to migrate to SAP HANA are facing backup challenges related to:

• Backing up large HANA databases in a formal way, within a short span of time

• Maintaining a reasonably low recovery time objective (RTO) and also zero recovery point objective (RPO) for an application in case of a disaster

• Controlling backup costs

• The need for a certified and reliable backup and recovery solution for SAP HANA environment

Addressing these challenges, HPE's leading on-premises server backup application, Data Protector, provides a robust, SAP-certified backup and recovery software solution that integrates with the appliance.

Backup and recovery for the enterprise

HPE Data Protector is an enterprise-class backup and recovery solution that provides reliable and comprehensive data protection and high availability for your fast-growing business data. It offers comprehensive backup and restore functionality, specifically tailored for enterprise-wide, distributed environments.

Comprehensive enterprise data protection

HPE Data Protector allows to simplify and standardize backup and recovery across heterogeneous environments, applications and media, from core data centers to remove sites, and backup to disk, tape, and cloud targets. It is designed to seamlessly scale from a small, single system deployment to thousands of systems across several sites. Designed to support large, complex environments, a single instance of HPE Data Protector can protect thousands of clients and hundreds of billions of files, while running one hundred thousand sessions per day. With high-performing backup capabilities, you can scale to deliver 140 TB per hour of throughput in a single session. Extensive support matrix simplifies integrating with 3rd party systems and solutions and reduces the need for multiple point products.

A single, scalable federated deduplication solution

HPE backup and recovery software solutions provide intelligent federated deduplication that increases the storage efficiency of your backup environment. The built-in deduplication is a light-weight technology that can run at the source of the application, backup server, or backup target device. This flexibility enables you to achieve cost efficiencies and a more efficient backup infrastructure.

The ease of central administration

HPE Data Protector enables you to centralize administration and management of your entire backup environment. With HPE Data Protector, operations, including server backup and recovery (across physical and virtual servers), user management, object copy, device and media management, monitoring and reporting, disaster recovery, snapshot management, and client management, are managed through a single pane of glass.
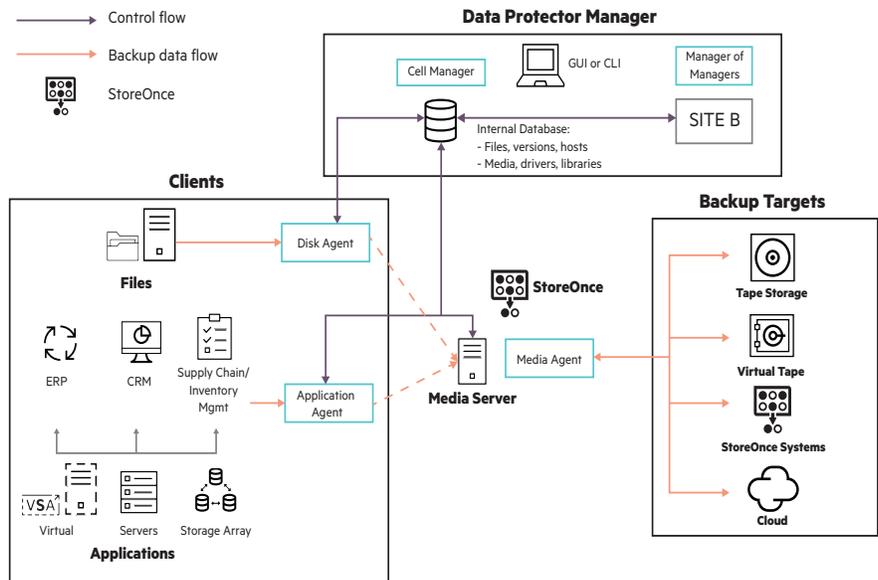
High-performance backup

Data Protector enables you to perform backup to several hundred backup devices simultaneously, including high-end devices in very large libraries. Various backup options, such as local backup, network backup, online backup, disk image backup, synthetic backup, backup with object mirroring, and built-in support for parallel data streams allow you to tune your backups to best fit your requirements.

Data Protector is the foundation of the HPE Adaptive Backup and Recovery (ABR) suite which also includes Storage Optimizer for analyzing, classifying and managing data based on its value and Backup Navigator for optimizing the backup environment by using operational analytics and insight. Together, this suite provides our customers with a 360 degree view of their backup environments, allowing them to constantly tune and adapt to deliver peak results.

Key benefits of integrating HPE Data Protector into your SAP HANA environment

- **Highly efficient integrated backup: HPE Data Protector** integrates a light-weight, intelligent deduplication technology called **HPE StoreOnce** that increases storage efficiency and backup and recovery performance in SAP HANA backup environments. The solution accelerates SAP HANA backup and recovery performance and reduces the capacity needed to store backups. With Data Protector, SAP HANA backups can be stored on any supported secondary storage tier including disk, tape or cloud.

- **Automated application-owner driven backup and recovery:** HPE Data Protector integrates with SAP BackInt API to provide application consistent backup of SAP HANA's in-memory databases, and performs database recovery to a state at a specific point in time, or the most recent restorable state. With HPE Data Protector, SAP administrators can control, manage, and monitor the entire backup and recovery process directly from the SAP HANA studio.

- **SAP-certified backup solution:** HPE's integrated backup for SAP HANA is tested and certified by SAP. With HPE backup solution, you are buying peace of mind with a robust, integrated, and supported solution instead of an error-prone, non-supported backup integration that burdens IT staff with manual steps and processes as they manage backup and recovery.

- **Automated and cost-effective disaster recovery:** Use the HPE StoreOnce remote replication feature to replicate SAP HANA backups to an HPE StoreOnce Backup System in a remote facility seamlessly for simpler recovery in the event of a disaster.

HPE Data Protector Architecture

HPE Data Protector seamlessly manages and protects any type of data across physical, virtual, and cloud environments to backup targets including disk, tape, and cloud.

A smart companion to back up your SAP HANA database

Because SAP HANA is an in-memory, high speed database, you also need a high-speed backup solution to complement it. With HPE Data Protector, you can achieve the highest efficiency and performance in your SAP HANA environment, while keeping database backup and recovery costs under control. HPE delivers the backup and recovery solution that you can count on to increase total resource utilization and productivity as you deliver reliable data protection for your SAP HANA environment.

With HPE Data Protector, you can take a smart, integrated approach to backup and recovery that helps you to:

• Meet strict service level objectives through high-speed backup and recovery

• Reduce burden on backup administrators through application-owner driven backup and recovery

• Improve utilization of your backup infrastructure with a highly efficient deduplication technology

• Gain peace of mind with a true SAP-certified backup solution

HPE & SAP Alliance

In today's fast-paced world, you need to know what's going on with your business, your marketplace, and your customers so you can respond right away. When you choose HPE analytics, cloud, mobility, and business process solutions, you also get the benefits that come from **HPE and SAP** working together. The best technology along with this strong alliance provides you with seamless, more secure, context-aware experiences for your SAP environment.

When HPE and SAP join together, the result is a wider world of possibility based on a firmer grasp of what's happening in real time. This means a clear view of what is to come and what is possible, creating an opportunity for your organization to thrive and grow.

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