



Rubrik for SAP HANA

OVERVIEW

Organizations are accelerating their pace of [digital transformation](#) like never before, as they digitize services quickly at scale to meet rising customer demands and create new revenue channels. This increased pace of business amplifies the pressure on DBAs and IT Operations teams, who are already working hard to address increasing needs without sacrificing security or data protection.

SAP HANA is an in-memory, column-oriented, relational database management system (RDBMS) used to store mission-critical data for multi-tier applications that are utilized to support the growing business needs. Because SAP HANA powers mission-critical applications, backups must be easily accessible and quickly recoverable. With traditional and existing data backup approaches, unfinished backups can go undetected, database refreshes may take days, and manual scripting is necessary to enable multi-step workflows. When dealing with large databases, organizations run the risk of lengthy RTOs and data loss.

Rubrik empowers organizations by delivering a single solution for Intel x86 and IBM Power systems that unifies and automates the protection of SAP HANA environments across on-premises and the cloud. With Rubrik, backup teams can automate the discovery of their SAP HANA databases and keep them protected with a single SLA policy engine. They can monitor the state of their data protection across their organization and support short recovery point objectives (RPOs) and recovery time objectives (RTOs) to keep their systems running. They can do all of this without affecting the ability of SAP HANA admins to perform on-demand backups and restore operations using native tools such as SAP HANA Cockpit and SAP HANA Studio.

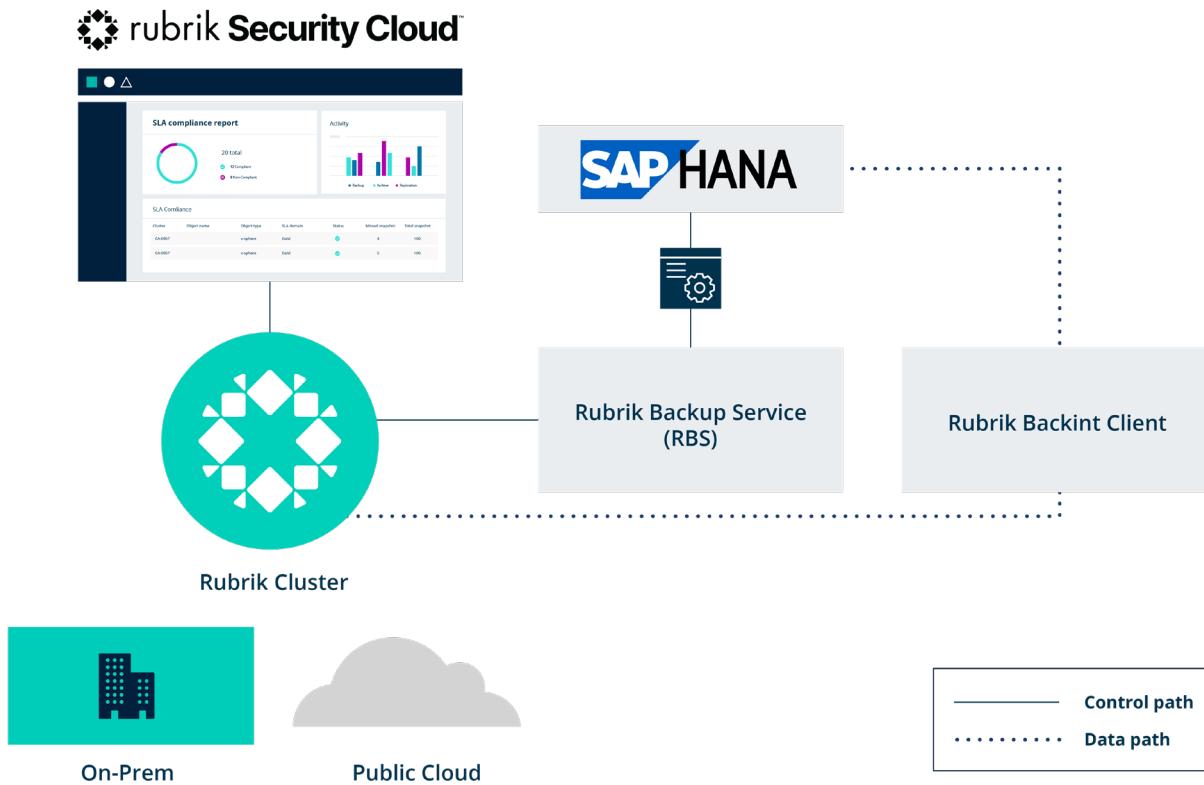
The screenshot shows the Rubrik UI for SAP HANA. The top navigation bar includes links for GPS, DASHBOARD, CLUSTERS, INVENTORY, SLA DOMAINS, EVENTS, REPORTS, and LIVE MOUNTS. The INVENTORY tab is selected. Below the navigation is a breadcrumb trail: Inventory > SAP HANA. A blue button labeled "MANAGE HOSTS" is visible on the right. The main area is titled "SAP HANA" and has tabs for "SYSTEMS" (selected) and "DATABASES". A search bar at the top right says "Search by SID". Below is a table with columns: Rubrik Cluster, SID, Instance Number, Hosts, Databases, SLA Domain, Cluster, and Last refresh time on The table lists two entries: XE1 and XE2, both associated with the "amer1-rbk01" cluster.

Rubrik Cluster	SID	Instance Number	Hosts	Databases	SLA Domain	Cluster	Last refresh time on ...
XE1	90	1	2	SAP HANA D...	shrd1-rbk01 and 1 replica	Feb 14, 2022, 9:11:...	
XE2	90	1	2	SAP HANA D...	shrd1-rbk01 and 1 replica	Feb 14, 2022, 9:08:...	

The screenshot shows the Rubrik UI for SAP HANA, similar to the previous one but with a different view. The main area is titled "SAP HANA" and has tabs for "SYSTEMS" and "DATABASES" (selected). A search bar at the top right says "Search by name". Below is a table with columns: Name, Location, Cluster, Log Backup Interval, SLA Domain, and Assignment. The table lists several entries, including SYSTEMDB@XE2, SYSTEMDB@XE1, XE1@XE1, and XE2@XE2, all associated with the "amer1-rbk01" cluster. The "Assignment" column indicates they are derived from XE2@90.

Name	Location	Cluster	Log Backup Interval	SLA Domain	Assignment
SYSTEMDB@XE2	sh1-hana...	shrd1-rbk01 and 1 replica	15 minutes	SAP HANA De...	Derived from XE2@90
SYSTEMDB@XE1	sh1-hana...	shrd1-rbk01 and 1 replica	15 minutes	SAP HANA De...	Derived from XE1@90
XE1@XE1	sh1-hana...	shrd1-rbk01 and 1 replica	15 minutes	SAP HANA De...	Derived from XE1@90
XE2@XE2	sh1-hana...	shrd1-rbk01 and 1 replica	15 minutes	SAP HANA De...	Derived from XE2@90

The following diagram describes a high-level overview of how Rubrik Security Cloud integrates with SAP HANA to provide backup functions.



- The Rubrik Backup Service (RBS) software is deployed on the host or cloud virtual machine running the SAP HANA database.
- Rubrik has implemented a Backint client, which gets deployed once the RBS software is deployed and configured on the host.
- The host is then automatically discovered by Rubrik Security Cloud.
- Once discovered, customers can assign SLA Policies from Rubrik, which automates backup frequency, retention, replication, and archival for forever incremental backups.
- Rubrik's Backint client then leverages the native APIs of SAP HANA for providing backup and restore functionality.
- Rubrik uses the control path flow to retrieve the metadata, then uses this metadata to add the SAP HANA host and system and discover the databases.
- Rubrik uses the data path flow to ingest the data to Rubrik's immutable file system and retrieve the backups for restores.
- The same architecture and functionalities are used across on-premises and supported public clouds.

RUBRIK SOLUTION KEY FEATURES

With SAP HANA protection, the Rubrik Security Cloud automates the discovery of SAP HANA databases and allows the administrators to configure SLA-driven policies for backup. Rubrik Security Cloud supports the protection of SAP HANA databases running both on-premises and in the AWS, Azure, and GCP public clouds.

Rubrik provides the following key capabilities with a single software solution while backing up and protecting SAP HANA databases:

Hassle-Free Connector:

- Rubrik Security Cloud integrates to SAP HANA with Rubrik Backup Service (RBS), a self-managing connector.
- There are no tedious manual steps required on the SAP HANA host other than a straightforward deployment of the RBS agent.

Certified Protection:

- SAP has certified Rubrik as a 3rd party backup tool for integration with SAP HANA Backint for [Intel x86](#) (SAP HANA 2.0 SPS 05 via HANA-BRINT 1.5) and SAP HANA Backint for [IBM Power Systems](#) (SAP HANA 2.0 via HANA-BRINT PW 1.5).
- RBS software, once deployed on the SAP HANA host, manages the Backint configuration.

Native Integration:

- Rubrik includes catalog integration so customers can continue to use either SAP HANA Studio or SAP HANA Cockpit to trigger restores.

Automated Discovery:

- As the SAP hosts and systems are added to Rubrik, the SAP HANA databases are automatically discovered when created.

Declarative SLA Policy Engine:

- Streamline the protection of SAP HANA databases by assigning SLA policies that configure backup frequency, retention, archival, and replication using the same engine.
- It supports full, incremental, and differential backups.



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Rubrik (NYSE: RBRK) is on a mission to secure the world's data. With Zero Trust Data Security™, we help organizations achieve business resilience against cyberattacks, malicious insiders, and operational disruptions. Rubrik Security Cloud, powered by machine learning, secures data across enterprise, cloud, and SaaS applications. We help organizations uphold data integrity, deliver data availability that withstands adverse conditions, continuously monitor data risks and threats, and restore businesses with their data when infrastructure is attacked.

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Storage Efficiency:

- Leverage data reduction capabilities to reduce the overall total cost of ownership (TCO).

Enterprise Scale:

- Protect SAP HANA Tenant Databases on a single node or SAP HANA Databases across multiple nodes for scale-up and scale-out use cases.

Point-in-Time Granularity:

- Leverage data and log backups to enable point-in-time recovery.
- Roll forward log backups on top of data backups for granular control over recovery points with the default log-backup frequency of 15 minutes or lower.

Unified Management and Reporting Platform:

- Enable DBAs to use existing SAP HANA tools like SAP HANA Studio while empowering traditional backup teams. Keep your SAP HANA databases protected across on-premises and cloud with centralized visibility and control.
- **Active Monitoring:** View the status of data and log backups from a centralized activities pane.
- **Comprehensive Compliance Reporting:** View backup summary information, latest recovery points, and identify which backups have failed across your environment.

Rubrik's SAP HANA protection is certified by SAP for x86 and Power systems.

CONCLUSION

Organizations rely on Rubrik to protect their mission-critical SAP HANA databases and applications. Rubrik delivers comprehensive protection and automates the discovery and protection of SAP HANA environments across on-premises and the cloud with a single SLA policy engine. To learn more, check out our [website](#).