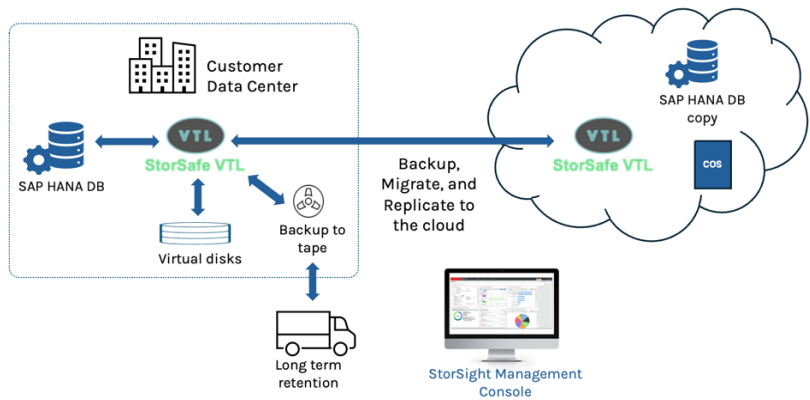


## FalconStor StorSafe VTL for SAP HANA

Optimized Data Protection and Cloud Migration for SAP HANA

SAP HANA backup and recovery provides solid foundational data protection capabilities for SAP HANA databases. FalconStor® StorSafe® VTL works directly with SAP HANA, emulating physical tape libraries/drives virtualizing any storage to optimize data protection for SAP HANA databases. Backup images are reduced using advanced compression and patented block-level deduplication to minimize both the storage footprint and network traffic with less data required to traverse the network. The software can run in the cloud, on physical servers, or on virtual machines and utilizes leading security technology to keep data safe to protect and restore against cyber and ransomware attacks with immutable backups.



### Optimizing SAP HANA Data Protection & Migration Use Cases

- 1. On-Premises Backup** leveraging StorSafe VTL to virtualize any server, internal disks, or exterior block or object storage  
Benefit: Reduce storage costs with virtualized storage and reduction in backup image size leveraging compression and deduplication.
- 2. Hybrid Cloud Backup** where customers perform backups with StorSafe VTL on-premises, deduplicate, and send a copy to the cloud  
Benefit: Reduce data transferred to the cloud with deduplication, saving time, bandwidth, and storage costs for secondary backups to the cloud or long-term archive.
- 3. Migrate from On-prem to the Cloud** where backup workloads including legacy tapes are migrated to the cloud  
Benefit: Simplify migration of on-premises workloads and legacy tapes to the cloud.

4. **Cloud-Resident Backup** where workloads in the cloud are backed up via StorSafe VTL. StorSafe VTL is the only solution able to backup IBM i workloads over 2TB in size on PowerVS with ease.  
Benefit: Ensure cost-effective and reliable backups and restores for data in the cloud.
5. **Cloud Disaster Recovery** where workloads in the cloud are replicated to another cloud location or cloud platform for recovery in the event of disaster.  
Benefit: Leverage the same StorSafe VTL software to replicate workloads in one cloud location to another cloud location or cloud platform for simplified DR.

## **BENEFITS/FEATURES**

### **Minimizes storage costs**

Virtualizes any storage medium - any server, internal disks, exterior block or object storage, tape et al

### **Fast and easy migration to the cloud**

Backup on-premises and restore to the cloud – it's that simple.

### **Minimizes storage requirements**

Patented deduplication and compression technology can reduce the size of backups, significantly minimizing cost for power, storage, and networking.

### **No changes to existing backup and recovery processes**

Uses your existing backup and recovery processes. Data can be ingested directly from SAP HANA.

### **Ransomware protection**

Air-gapped and immutable backups protect against cyber and ransomware attacks with provisioning Write-Once-Read-Many (WORM) virtual tapes and added integration with IBM Cloud Object Storage. Data is encrypted in motion and at rest using AES-256 with StorSafe VTL managed keys.

### **Multicloud support**

StorSafe VTL can also run on IBM PowerVS, Microsoft Azure, AWS, and Google Cloud Platform. The object storage repository can support a multicloud environment comprised of multiple cloud platforms.

### Backup window optimization

Flexible inline or post processing deduplication options are built in to help optimize performance to meet backup window demands.

### Disaster recovery

Replicate workloads from on-prem to cloud or from one region in the cloud to another region to recover rapidly in the event of a disaster. One- to-many replication provides extended protection.

### Secure multi-tenancy support

Leverages Falconstor StorSight® to provide centralized management of all StorSafe licenses and servers with rules, analytics, reports and forecasts, and real-time visibility to enable specific departmental and/or organization specific chargebacks. Added security is included leveraging multi-factor authentication.

### FalconStor StorSafe VTL enhances the foundation of SAP HANA backup and recovery.

## TECHNICAL SPECIFICATIONS

Host Operating Systems and Hypervisors	See <a href="#">Certification Guide</a>
Connectivity Protocols	iSCSI, Fibre Channel, FCoE
Number of Virtual Tape Libraries	Up to 128 VTLs, up to 64 drives per VTL instance
Number of Virtual Cartridges	Up to 60000 virtual cartridges
Tape Library Emulation	See <a href="#">Certification Guide</a>
Tape Drive Emulation	
Cloud Object Storage	
Backup Software	

## SUPPORT AND SERVICES

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