

FALCONSTOR

StorSafe® VTL for IBM Power® and PowerVS

FalconStor StorSafe VTL for Power and PowerVS

FalconStor StorSafe VTL software delivers Data Protection and Cloud Migration “as a Service” for IBM i/AIX/Linux workloads running on-premises or in Power Systems Virtual Server (PowerVS).

Summary

Four IBM i/AIX/Linux Data Protection & PowerVS Migration Use Cases

There are four primary use cases for FalconStor StorSafe VTL for IBM environments:

1. **Migrate from On-premises to PowerVS**, where IBMi/AIX workloads and legacy tapes are migrated to IBM PowerVS. **Benefit: Simplify migration of on-premises workloads and legacy tapes to IBM PowerVS using StorSafe VTL for Power and PowerVS.**

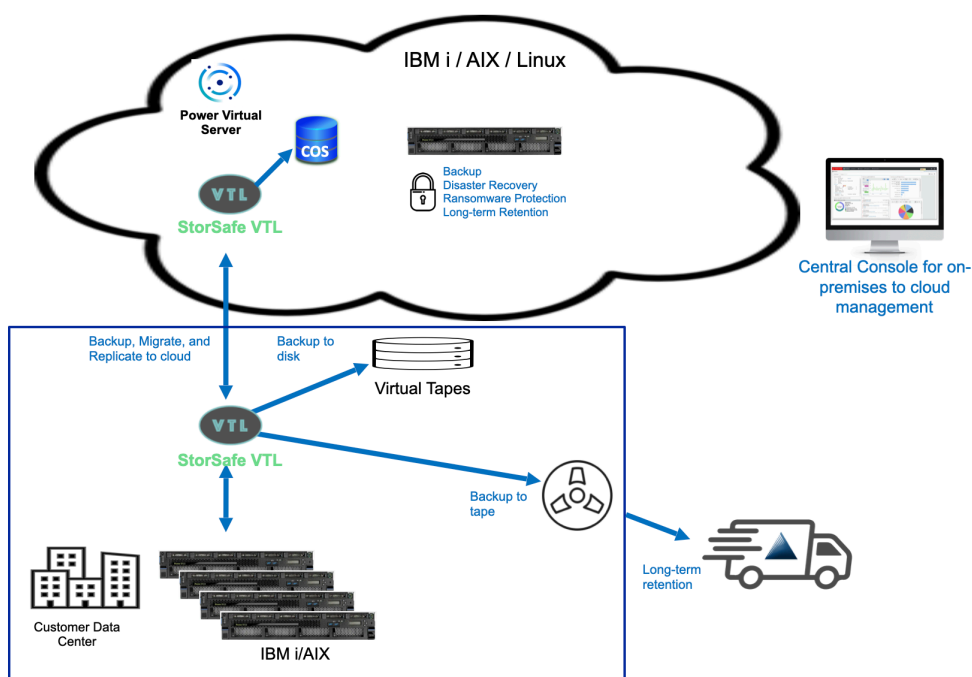


Figure 1. StorSafe VTL for Power and PowerVS solution overview

2. **Hybrid Cloud Backup**, where customers perform backups on-premises with StorSafe VTL for Power, deduplicate, and send a copy to PowerVS. **Benefit: Reduce data transferred to the cloud with deduplication, saving time and storage costs while meeting disaster recovery (DR) and/or long-term archival requirements.**
3. **PowerVS-resident Backup**, where IBM i, AIX, and Linux workloads in PowerVS are backed up via StorSafe VTL for PowerVS. **Benefit:**

Ensure cost-effective and reliable backups and restores for IBM i, AIX, and Linux data in PowerVS.

4. **PowerVS Disaster Recovery (DR)**, where workloads in PowerVS are replicated to another cloud location for recovery in the event of disaster. **Benefit: Use same StorSafe VTL software to replicate workloads in PowerVS to another cloud location for simplified DR.**

Figure 1 provides an overview of the solutions provided. A management console manages everything across sites and clouds with ease.

Introduction

FalconStor StorSafe VTL for Power and PowerVS are IBM-certified solutions for IBM i/AIX/Linux cloud migration, backup/restore, and DR. IBM PowerVS is deployed by customers who want to extend their on-premises environments to the cloud. Using the IBM Cloud catalog, IT administrators can quickly deploy virtual servers, also known as logical partitions (LPARs), into their PowerVS environment. StorSafe VTL for PowerVS, featured in the IBM Cloud catalog, should be added to any PowerVS environment as a critical LPAR for migrating IBM workloads to PowerVS, then securely backing them up, restoring them (including at any point in time for ransomware protection) and providing disaster recovery.

Also available from the IBM Cloud catalog is StorSafe VTL for Power, deployed on-premises for more efficient backup with any enterprise backup solution. It also enables fast and secure migration to PowerVS.

StorSafe VTL for Power and PowerVS

For over 20 years, FalconStor has provided a virtual tape library (VTL) disk-based solution to IBM customers that reduces storage costs and helps meet backup and restore windows. As the engine behind DSI appliances, many IT staff are already very familiar with how the VTL solution works. Today, the solution is also being used to greatly simplify migration of IBM i and AIX workloads from on-premises environments to PowerVS.

Customers are interested in StorSafe VTL for Power and PowerVS for the following key benefits:

Fast Migration to PowerVS and Data Protection

Easily migrate IBM i/AIX workloads to PowerVS to realize cloud value quickly, then protect with StorSafe VTL for PowerVS, an IBM-certified solution

Price/Performance 6X better than a Leading Competitor*

Fast, inline deduplication and throughput ensure backups are captured and processed efficiently

Up to 95% Data Reduction

Patented deduplication technology reduces the size of backups - by up to 95% - significantly reducing storage costs and helping datacenter achieve a greener footprint

DR Extension

Replicate IBM i/AIX/Linux systems from one region in the cloud to another region, or to an on-premises location, to recover rapidly in the event of a disaster

Ransomware Protection

Use an immutable, air-gapped copy of data to overcome a cyberattack and recover to unaffected data

Technical Details

StorSafe VTL for PowerVS is deployed as an LPAR in the PowerVS environment and StorSafe VTL for Power is deployed on-premises. Once deployed, they are essential pieces of the on-premises to PowerVS migration process, as well as subsequent data protection and disaster recovery of


“We have embedded FalconStor’s StorSafe VTL technology within PowerVS cloud IaaS so clients can easily backup and restore their data reliably and seamlessly. Since FalconStor’s StorSafe VTL software supports Power9 systems on-premises, the additional integration of FalconStor’s VTL technology within PowerVS cloud is intentionally designed for clients to easily migrate, automatically backup and restore, their data securely to and from PowerVS whether their workloads run on-premises or on PowerVS.”

Terry Thomas, director of IBM Power Systems public cloud product management at IBM

PowerVS workloads. Before migrating to PowerVS, StorSafe VTL for Power can be used on-premises to reduce storage costs and meet backup windows with ease.

Multi-OS support for IBM i/AIX/Linux provides a single solution from on-premises to cloud, while easily scaling from supporting a single Terabyte to supporting many Petabytes allows seamless cost-effective growth as required.

Scalability to handle explosive data growth is an important feature required by IBM customers. StorSafe VTL for Power and PowerVS uses



the storage assigned from the disk array so, as needs grow, customers can grow the LUN or assign more LUNs. And because the software can offload older virtual tapes to object storage, StorSafe VTL has unlimited capacity to store backup/migration data. Similarly, offsite protection has no limitation on capacity. For offsite protection, StorSafe VTL provides the choice of physical tape, object storage, cloud object storage, or a twin copy of StorSafe VTL running at a remote site which is replicated to continuously.

Data deduplication is another core feature that separates FalconStor from similar data movement products. With nine patents, FalconStor algorithms are optimized for each backup vendor's file format. Identifying more duplicate blocks than other data movement solutions, and combined with advanced compression, StorSafe VTL for Power and PowerVS can reduce the size of a backup by up to 95% while delivering enterprise backup and restore performance.

Since StorSafe VTL is 100% compatible with any open system and backup software, backup windows are easily met and restores are performed quickly - both used for migrating workloads to the cloud. As noted in the IBM migration to PowerVS guide, migration occurs with a backup of on-premises workloads which are then restored in the cloud.

Understanding that every IBM environment is unique (e.g., environments have a mix of storage and backup licenses from acquisitions, purchased by staff who are no longer present, etc.), it is important that StorSafe VTL support any storage array, no matter where it is in its lifecycle. That is, whether brand new or full of data already, when StorSafe VTL is deployed, it does so non-disruptively - even when high availability solutions are in place. This allows IT staff to continue to support the many pieces of their unique environment without requiring new infrastructure. Access the StorSafe VTL [certification matrix](#) to see how your environment can reduce storage costs and deploy cloud migration, data protection, and disaster recovery.

IBM Strategic Partnership

IBM has teamed with FalconStor to bring enterprise-class data protection, disaster recovery, ransomware protection, and cloud migration to IBM Power workloads. StorSafe VTL for Power and PowerVS are the first solutions from this business partnership between IBM and FalconStor that accelerates cloud migration, cloud backup, and cloud DR of IBM Power systems. Part of the IBM Ecosystem, FalconStor's collaboration with IBM combines the companies' strengths to help solve the most complex challenges in business and society for customers with cloud and hybrid cloud.

Availability

StorSafe VTL is available today directly from FalconStor and its worldwide ecosystem of business partners. IBM-certified versions for Power and PowerVS are fully integrated into the IBM Cloud catalog with one-click provisioning and integrated billing with PowerVS.

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