

SUCCESS STORY

STRENGTHENING DIGITAL BANKING RESILIENCE

Overview

A private sector bank required a robust infrastructure to support its expanding digital services. The primary goal was to ensure mission-critical banking applications remained operational and secure, even during unexpected system outages. The bank needed a strategic enhancement to its Primary (PR) and Disaster Recovery (DR) sites to provide a more reliable foundation for its 24/7 service commitment.



Solution overview

- **Solution partner:** JBS (www.jbs.live)
 - **Solution implemented:**
 - **HPE Compute & Storage**
 - **VMware vSphere for High Availability**
 - **Veeam Backup & Replication**
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Challenges

Eliminating the threat of downtime

In the banking sector, even a few minutes of downtime is not an option. The challenge was to architect a solution where the Disaster Recovery (DR) site isn't just a "backup plan" but a mirror image of the Primary site. JBS had to ensure that if one site goes dark, the Bank's critical services stay live through automated, high-speed synchronization.

Orchestrating a massive technical ecosystem

With hundreds of "ports" and communication channels needing to talk to each other across different locations, the challenge was seamless coordination.

JBS had to ensure that security firewalls, servers, and software all worked in harmony to prevent any communication "noise" or security gaps.

Future-Proofing through total visibility

A core challenge was moving away from "reactive" IT to "proactive" management. By implementing advanced monitoring tools, JBS provided the Bank with a "single pane of glass" view allowing their team to spot and fix potential issues before they ever impacted a single customer transaction.

The solution provided by JBS

The bank partnered with JBS to implement a unified, high-performance environment. The solution centered on a multi-hypervisor approach and advanced data protection to create a seamless operational loop.

Key pillars of the solution included:

- **A Secure Virtual Foundation: VMware ESXi** was deployed across both the Primary (PR) and Disaster Recovery (DR) sites, creating a secure and reliable foundation for virtual workloads.
- **Integrated Data Protection with Veeam:** The implementation of **Veeam Backup** and Replication ensures continuous synchronization between sites. This allows the bank to perform rapid failovers to the recovery site during a disaster with minimal downtime.
- **Precision Recovery Options:** Beyond full system restores, the Veeam integration allows for *Instant VM Recovery* and *Individual File-Level Recovery*, enabling the IT team to retrieve single files or folders quickly without restoring entire servers.
- **Flexible Workload Mobility:** The environment supports cross-platform conversion between **Hyper-V and VMware**, allowing the bank to move virtual workloads seamlessly as operational needs change.
- **Predictive Infrastructure Insights:** Using **Veeam ONE**, the bank gained advanced analytics and capacity planning. The system identifies potential resource bottlenecks before they impact performance, allowing for smarter resource allocation.

- **Bi-Directional Continuity:** The disaster recovery strategy features bi-directional replication, ensuring both the PR and DR sites can protect and restore data for one another.
- **Simplified Administration:** A modern, browser-based management interface provides the IT team with "at-a-glance" visibility into

How it solved the challenges

A Secure Virtual Foundation

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Integrated Data Protection with Veeam

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Precision Recovery Options

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Flexible Workload Mobility

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Predictive Infrastructure Insights:

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Bi-Directional Continuity:

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Why JBS

- A **proven track record** of successful project deliveries with measurable outcomes
- **Expert-level certifications** in cybersecurity, guaranteeing deep technical expertise and best-in-class implementation

Key impact of the solution

- **Enhanced Service Reliability:** The infrastructure is optimized for high availability, significantly reducing the risk of service interruptions for customers.
- **Rapid Recovery Readiness:** Automated replication ensures the bank is always prepared for a disaster recovery scenario, safeguarding customer data and service access.
- **Operational Efficiency:** The combination of ESXi and Veeam provides a streamlined management experience, reducing the manual overhead required for complex data protection tasks.
- **Scalability for the Future:** The new foundation is designed to grow with the bank, supporting new applications and evolving technical demands as the institution continues to innovate.

Conclusion

By modernizing its core infrastructure with **VMware ESXi and Veeam**, the Bank has reinforced its commitment to secure and uninterrupted financial services. This strategic initiative, delivered in partnership with JBS, provides the technological resilience necessary to lead in an increasingly digital and 24/7 banking environment



Contact us

Learn how JBS can help secure your organization with future-ready AI-powered solutions.

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