80% Faster Recovery with Near-Zero Data Loss Risk, Azure Site Recovery Design (Hub-and-Spoke Architecture)

KPCS Consulting Case Study

Executive Summary:

The client was a leading investment group in Central Europe that needed to modernize its disaster recovery strategy and ensure high availability of its key systems. KPCS designed and implemented a cloud-based disaster recovery solution in Microsoft Azure, featuring a secure architecture, continuous data replication, and regular readiness testing.

The project included an assessment of the current state, the design of a segmented environment, the setup of controlled failover and failback processes, and support for the recovery of SAP and other ERP platforms. The result is a validated and repeatable solution, ready for further development across the entire organization.

Key Delivered Outcomes:

- 80% shorter service recovery time (RTO)
- 75% reduction in data-loss exposure (RPO)
- 45% faster incident execution
- 20% lower incident-related costs
- 30% improvement in audit and compliance readiness

1. Client Overview

The client is a major Central European investment group overseeing long-term development of portfolio companies across healthcare, financial services, retail, manufacturing, real estate, and media. Its organizations collectively employ more than 50,000 people, making reliability and business continuity critical operational priorities.

The customer required a resilient disaster recovery strategy that could support enterprise-level uptime, protect data across diverse systems, and deliver predictable recovery for key workloads, including SAP and other ERP platforms.

2. Project Overview

KPCS designed and validated a cloud-based disaster recovery architecture in Microsoft Azure using Azure Site Recovery. The goal was to enable the rapid restoration of critical systems if the primary data center becomes unavailable.

The engagement included:

- Assessment of the current recovery posture
- Design of a secure, segmented Azure DR environment (hub-and-spoke)
- Continuous replication of selected workloads to Azure
- Controlled failover and failback processes
- Non-disruptive DR test failovers to validate readiness
- Support for SAP/SAP HANA recovery scenarios
- Capacity and cost modeling for DR expansion and budgeting

The project delivered a fully tested, repeatable recovery capability ready for extension across the organization.

3. Risks & Impacts Before KPCS Involvement

Before modernization, the customer faced significant continuity risks:

- Recovery could take hours or days due to manual, untested steps
- Uncertainty in the failover sequence and ability to restore services
- High risk of data loss due to backup-based recovery model
- Incident response relied heavily on a few individuals, increasing error rates
- Core business systems (e.g., SAP) were exposed to extended outages
- Operational disruption could quickly affect financial and management processes

4. Key Results & Differentiators

KPCS delivered a disaster recovery capability that is operational, testable, and aligned with enterprise requirements.

Key differentiators include:

- A controlled end-to-end failover and failback process
- Non-disruptive DR testing via isolated Azure test environments
- Secure network segmentation to separate production, DR, and test workloads
- SAP-aware recovery sequences and delegated access design
- Clear documentation, runbooks, and decision paths
- Capacity and cost estimates that allow informed strategic decisions

5. Business Benefits

- **80% shorter service recovery time (RTO)** — shifting from manual, unpredictable recovery to controlled failover within minutes to a few hours.
- **75% reduction in data-loss exposure (RPO)** — moving from "since last backup" to near-continuous replication.
- **45% faster incident execution** — predefined runbooks and automated processes reduced improvisation and coordination delays.
- **20% lower incident-related costs** — fewer emergency interventions, reduced overtime, and less firefighting during outages.
- **30% improvement** in audit and compliance readiness — documented DR processes and regular test failovers reduced the time required for audits.

Additional strategic value delivered:

- Significant mitigation of operational and financial risks tied to downtime and data loss.
- Strengthened resilience posture across business-critical systems, including SAP.
- A scalable foundation for broader cloud modernization initiatives.

6. Year

2021

7. Next Steps & Contact

KPCS helps global healthcare organizations modernize digital processes, eliminate manual workloads, and unlock AI-driven efficiency.

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