SMBCTEX-004 – Migration Capability Document

Project Title: IX-RD-PS-Infinity-01 Migración y modernización infraestructura Infinity
Document Title: Migration Capability Statement
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Purpose

This document outlines the AWS Partner's technical and procedural capabilities to plan, execute, and support the migration of workloads from on-premises infrastructure to Amazon Web Services (AWS) for Seguros Patria. It details the tools, frameworks, and expertise employed to ensure secure, efficient, and cost-effective workload migration.

Migration Objectives

- Migrate key business applications (IIS, SQL Server, File Shares) to AWS
- Modernize data storage and operational tools
- Minimize downtime and business impact
- Enhance scalability, performance, and security post-migration

Migration Methodology

Migration followed the AWS-recommended 3-Phase Framework:

Assess

- Conducted discovery and analysis using manual audit and AWS Systems Manager Inventory
- Identified dependencies among database, file storage, and authentication systems
- Created a Total Cost of Ownership (TCO) model using AWS Pricing Calculator

Mobilize

- Designed and deployed the AWS Landing Zone
- Defined secure VPCs, IAM policies, and resource tagging standards
- Established connectivity and replication paths where needed

Migrate & Modernize

- Migrated legacy Active Directory to AWS Directory Services
- Moved SQL workloads to Amazon RDS for SQL Server
- Migrated file services to Amazon FSx for Windows File Server
- Lift-and-shift EC2-based workloads including Microsoft IIS
- Implemented AWS Backup and CloudWatch post-migration for resilience and observability

Migration Tools Used

Tool / Service	Purpose
AWS Systems Manager	Inventory, patching, and access
AWS Backup	Pre- and post-migration data backup
Manual Scripted Processes	Data and app transfer for IIS & FS

Workloads Migrated

Component	Source	Target AWS Service
Microsoft AD	On-prem (none)	AWS Directory Service
SQL Server	On-prem	Amazon RDS for SQL Server
IIS Web Apps	On-prem VMs	EC2 Windows + ALB + WAF
File Storage	On-prem network	Amazon FSx for Windows

Migration Timeline

Phase	Duration
Assessment	2 week
Planning	4 week
Migration	12 weeks
Validation	2 week
Total	~20 weeks

Cutover Approach

- **Strategy:** Lift-and-shift with DNS cutover and rollback procedures
- **Downtime:** Minimal (off-hours maintenance window)
- **Testing:** Conducted in a demo environment prior to production cutover
- **Validation:** User testing and KPI monitoring post-migration

Post-Migration Support

- **Monitoring:** CloudWatch dashboards and alerts
- **Backup:** AWS Backup configured for RDS and EBS
- **Patch Management:** AWS Systems Manager (scan + manual updates)
- **Training:** Sessions delivered to client team via Microsoft Teams

Challenges & Mitigations

Challenge	Mitigation Strategy
Legacy file share complexity	Migrated to FSx with user access synchronization
Patch timing risks	Staged patch deployment with rollback plan
Cost sensitivity	Used cost modeling + delayed multi-AZ setup

Conclusion

The Seguros Patria migration was completed successfully with zero unplanned downtime, adherence to AWS best practices, and notable improvements in reliability, observability, and scalability.

Sign-Off

Name	Role	Signature	Date
[Migration Lead]	Cloud Architect		
[Project Manager]	Project Manager		
[Seguros Patria Rep]	Client Owner		