

Enterprise-Grade Disaster Recovery (DR) for Bajaj Group Using AWS-Native Services

As the AWS Managed Services Partner (MSP), our team successfully designed and implemented the entire Disaster Recovery (DR) solution for Bajaj, delivering a high-availability, secure, and enterprise-grade setup tailored to their SAP RISE architecture and AWS environment.

About the Customer

Bajaj is one of India's largest and most diversified conglomerates, with strategic operations in manufacturing, financial services, and technology. Given the mission-critical nature of SAP workloads and financial systems, Bajaj required a highly secure and automated DR mechanism — especially considering SAP RISE's architectural limitations on direct storage integration.

Objective and Impact

- Objective: Implement an enterprise-grade Disaster Recovery (DR) mechanism across SAP RISE and AWS to protect critical business data.
- Impact: Achieved secure, automated, bi-directional synchronization between SAP RISE and AWS infrastructure with zero data loss and full operational continuity.

Timeline of Engagement



Business Challenge

Bajaj's primary DR requirement was to maintain seamless, real-time data synchronization between SAP RISE (hosted in Hyderabad) and AWS (also in Hyderabad, DR zone), with fallback capability to its production environment in Mumbai. Key complexities included:

- SAP RISE's inability to directly mount S3 to SAP servers
- Need for cross-account coordination between Customer's Application and DR environments
- Strict security posture requiring FQDN resolution and controlled internet access
- Demand for event-driven automation and bidirectional synchronization
- Application teams requiring secure, scoped access to respective DR resources



Partner-Led Solution

As Bajaj's trusted AWS MSP Partner, we designed and delivered an AWSnative, automation-driven DR architecture that met complex crossenvironment challenges while aligning with enterprise-grade compliance and performance goals.

Architecture Overview: Engineered for Security & Automation

Key Architectural Highlights:

- **Cross-account synchronization** between S3 and AWS Account.
- Event-based sync automation using Lambda + S3 Notifications
- Secure internet access for outbound connections via NAT Gateway
- Static host resolution (FQDN) for DR compatibility with SAP applications
- 15-minute scheduled Lambda trigger for consistent state synchronization
- Manual DR failback mechanism post-validation to Mumbai

Our MSP Role: Beyond Support, Strategic Ownership

Pre-Implementation:

- Conducted a deep-dive analysis of SAP RISE integration limitations
- Defined custom S3-to-EFS sync paths per applications
- Developed architecture in alignment with AWS best practices and SAP DR patterns

During Implementation:

- Delivered all configurations: S3 buckets, EFS file systems, NAT Gateway, EventBridge, Lambda functions
- Executed a real-time DR simulation, including fallback testing
- Maintained strong change management and stakeholder coordination

Post-Implementation:

- Validated IAM policies and access paths across apps
- Monitored DR cycles and performed stability tests
- Delivered full DR runbook and architectural documentation for audit and handover

Business Impact



Bi-directional Data Sync

Successfully automated via Lambda & DataSync



Zero Data Loss

Confirmed through pre/post DR sync validation



Cross-Account Integration

Smooth coordination between production & DR accounts

High Operational Resilience

Services Involved

Amazon S3

Amazon EFS

AWS DataSync

AWS Lambda

NAT Gateway

IAM Roles & Policies

Continuous 15-minute sync cycles sustained



Security Compliance

All access controlled via scoped IAM roles & encrypted channels



SAP-Ready File Architecture

EFS + S3 designed for hybrid compliance use cases





