

Global Electrical Solutions Company Migrates Critical Oracle EBS Workloads to AWS



A phased, risk-minimized migration during a complex enterprise divestiture.

10

Environments
Migrated

13

Hours ahead
of Schedule

100%

Standardized
Environments

Executive Summary

The client, a global manufacturer of electrical products serving industrial and commercial markets, was acquiring another company. This brought a complex challenge: separate and migrate the acquired company's Oracle E-Business Suite (EBS) environment (hosted on Oracle Cloud Infrastructure) into the client's own Amazon Web Services (AWS) infrastructure, without disrupting live operations.

The client chose Apps Associates to provide expert Project Management, System Administration, Cloud Architecture, and Database Administrator (DBA) support during this complex enterprise workload migration project to AWS.

As part of the divestiture initiative, the Apps Associates team rebuilt the source Oracle EBS environments from backup data directly into the client's AWS infrastructure, engineering the target architecture to mirror the original in server count and configuration, while maintaining system integrity and performance.

The migration was executed through a structured, three-iteration approach:

- The first iteration emphasized technical migration and validation.
- The second iteration introduced system integration and user acceptance testing (UAT).
- The final iteration focused on the production cutover.

This phased approach minimized risk, improved migration efficiency, and ensured both technical readiness and business validation, ultimately enabling a successful transition of critical systems in alignment with the client's broader integration and modernization objectives.

Environment

(1) Production, (2) Non-Production, and (1) DR

- **Products:** EBS 12.2.10, Database 19.29
- **Servers:** EBS (6), Splash BI (3), Apex (3), DR (1)
- **Size of the Databases:** E-Business (~4TB)
- **Email system:** Office 365
- **Printers:** CUPS Server
- An additional Integration Environment (4 servers) was built as per client request EBS (2), Splash BI (1) and Apex (1)

Driving Factors

As part of the acquisition, a Transition Services Agreement (TSA) between the two companies set a fixed schedule for the migration. Meeting that deadline was critical to business continuity and avoiding financial penalties. The initial migration focused on establishing the system in the client's own AWS environment, with Oracle Database@AWS (ODB@AWS) planned as a Phase 2 initiative.

Approach

Apps Associates provided detailed server specifications to the client's Infrastructure team to support the build-out of Production, Development, Test, and Disaster Recovery (DR) infrastructure and network environments. The Apps Associates System Administration and DBA teams were responsible for configuring and restoring each server as part of the overall implementation. Each environment was architected with four servers supporting Oracle EBS Database, EBS Applications, APEX, and SplashBI components.

The project was scoped around a phased, three-iteration migration:

Iteration 1: Technical Migration and Validation.

Production infrastructure and servers were built and configured within the production AWS account, while SplashBI was deployed in a separate AWS account. Using production infrastructure early in the process enabled the team to identify and document additional configurations required to closely replicate the client's on-premises environment.

Iteration 2: System Integration and UAT. Focused on repeating the migration process using the runbook developed during Iteration 1 and included the creation of an additional integration testing environment at the customer's request. UAT and functional testing were conducted in parallel with the build-out of Development and Test environments to support customization and rebranding activities.

Iteration 3: Production Cutover. Included pre-go-live preparation and cleanup, followed by four weeks of hypercare support. The DR solution was configured and fully documented immediately after go-live to ensure operational continuity from day one.

Challenges

Every migration comes with challenges, and Apps Associates worked in partnership with the client to address them.

One issue was tied to network connectivity between the client's plant locations and the new AWS environments. Some sites initially lost access because of firewall rules that hadn't been identified during early planning, and related issues surfaced with Samba shares, printers, and barcode scanners. Together, Apps Associates and the client's infrastructure team caught and resolved each of these during a dedicated dry-run iteration, well before they could reach production.

Integration setup introduced further complexity, since the original configurations were only thinly documented. Apps Associates and the client's team ran additional analysis and validation to reconstruct that logic with confidence rather than guessing at undocumented behavior.

Given the tight timeline, the Apps Associates project team completed critical activities such as monitoring, backups, and other mandatory go-live requirements during the UAT phase, so that nothing slipped through the cracks as the schedule compressed. Unexpected changes throughout the implementation required continuous adjustments to migration steps, all absorbed to ensure the smooth go-live the client required.

Prior to production go-live, the client's Development team also requested a new development environment using backups from Iteration 2, which required reallocation of resources and team coordination. Although client-driven changes in scope and delivery approach pushed the scheduled go-live for the cloud divestiture project back by two months, Apps Associates remained flexible in collaboration.

Results

Apps Associates successfully recreated the client's existing environments using backup data while preserving the original architecture, system configurations, performance characteristics, and business functionality. The migration brought the workloads onto a reliable, secure, and efficient AWS platform, ensuring business continuity with minimal disruption.

By maintaining application integrity and operational consistency throughout the transition, the client gained a resilient cloud-based environment that supports ongoing growth, improved infrastructure management, and enhanced availability.

AWS Solution Benefits

Speed and agility: AWS enabled rapid provisioning of environments, allowing the team to adapt quickly to scope and timeline changes. Provisioned 3 application servers, 3 database servers, 1 DR server, 3 SplashBI servers and 3 Apex servers.

Standardized infrastructure: 100% of environments deployed using approved AWS architecture patterns and configuration standards.

Consistency and reliability: Standardized cloud configurations ensured stable, repeatable environments across development, testing, and production.

Improved resilience: Built-in backup, monitoring, and disaster recovery capabilities strengthened system availability and business continuity. Automated backup policies configured for all production workloads. DR environment established in a separate Availability Zone/Region.

Efficient execution: Parallel work across teams accelerated testing, issue resolution, and supported a controlled, low-risk go-live.

About Apps Associates

Apps Associates is the premier middle-market OneOracle partner with a full-service business built on advisory, implementation, managed services, and AI services delivered across Oracle Cloud Infrastructure (OCI) and Oracle Cloud Applications. With more than 20 years of experience, Apps Associates services clients across all major industries, specializing in Life Sciences, Manufacturing, Financial Services, Healthcare, High Tech, Consumer Media Entertainment, and Energy and Utilities. With experience from 900+ cloud projects for 400+ customers worldwide, we deliver proven results that drive growth and innovation. With a customer retention rate consistently above 94%, Apps Associates is trusted as a long-term strategic partner, focusing on building lasting partnerships.

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