

Case Study - Rehosting Oracle Workload on Windows EC2



NDS Systems is based out of Tampa, Florida, offering an Oracle-based Enterprise Resource Planning (ERP) application for manufacturing, distribution, and fulfillment companies. NDS Systems boasts a long and successful history of satisfied customers.

CHALLENGE:

The NDS ERP application is an Oracle-based system that was initially deployed using client-server technology and has evolved over time. The software is now implemented using the Windows OS and is delivered to customers via the web. The system stores its business logic in the Oracle Application Server and its persistent data in an Oracle database. As the number of customers increased, the application experienced performance problems, maintenance issues, and escalating software license costs. The hardware was out of support, which meant there were no more security patches, and their security compliance was in jeopardy.

Management & Maintenance Challenges	Technical Challenges
Unsupported hardware that needed a refresh	Infrastructure not scalable, causing performance problems
Increasing Hardware & Software license expenses	Storage did not support a year's worth of backups
The system was difficult to maintain	Security compliance was challenging & expensive
Long Procurement lead times	Accessory services were hardware-dependent
The application was experiencing outages	
Lack of environments for R&D	

SOLUTION:

Idexcel migrated the application to an EC2 instance running the Windows operating system in the Amazon Web Services (AWS) cloud. The team, together with the customer, decided to lift & shift the application to quickly perform the migration. Once the system was stabilized (within 30 days), the team optimized the environment for cost, reliability, and performance.

The migrated workloads were hosted on load-balanced EC2 instances with Windows Server 2012/2016 as the operating system, configured to support both Microsoft and AWS best practices. The team also implemented the Remote Desktop Gateway integrated with Active Directory on a Windows EC2 instance with secured communication.

Idexcel's migration solution included:

- » Assessment using AWS tools
- » Re-hosting using third party tools
- » AWS EC2 instances with Windows operating system
- » AWS Services for automation, monitoring & compliance
- » Microsoft products integrated with the workload

By teaming with Idexcel, the client was able to deploy a cost-effective, scalable, and reliable AWS infrastructure. These practices enabled continuous integration, transparency, and accountability across teams, who were then able to deliver high-quality software at a velocity that exceeded business requirements.

BENEFITS:

With efficient strategy, design & project management, Idexcel team was able to complete the migration to windows on the AWS Cloud within a short period of time with a reduction of 45% operation expenses per month. The ERP workload was more responsive and resilient to failure. The client was able to cut the previous time it took to upgrade the platform by a factor of 50%, which also provided a scalable ground for R&D without any capital expense. Successful migration of the older legacy data reduced the company's storage cost by 85%. The new portal and its integration reduced manual processes by 25%.

The client is now able to focus on providing the functional capability that their customers demand.

OUR AWS COMPETENCIES



- DevOps Services Competency
- Financial Services Competency
- Migration and Modernization Services Competency

Contact us

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