



Whitepaper

Unlocking the power of Oracle JD Edwards modernization with Amazon Web Services (AWS)



In today's digital age, enterprises must innovate and differentiate to keep pace with the evolving technological landscape while maintaining operational and cost efficiency. Migrating legacy Oracle JD Edwards systems to AWS presents a powerful solution for businesses to enhance scalability, reduce costs, improve system performance, and manage digital disruption.

By leveraging AWS's robust infrastructure and innovative services, organizations can transform their Oracle JD Edwards systems into modern, data-driven platforms that support long-term growth, agility, and differentiation in the market. This whitepaper explores the critical strategies, benefits, and real-world case studies showcasing how businesses can successfully navigate digital transformation through Oracle JD Edwards modernization on AWS.



Cloudifying: The key to digital transformation

Legacy on-premise ERP systems are increasingly seen as impediments to innovation due to their limited scalability, high operational costs, and inability to integrate modern technologies such as artificial intelligence (AI), Internet of Things (IoT), and machine learning (ML). To transform, businesses need to become more agile, scalable, and integrated—moving ERP workloads to the cloud has become a priority.

Migrating Oracle JD Edwards to AWS, or cloudifying, not only provides the scalability, security, and cost efficiency needed to drive business growth but also facilitates seamless integration with modern technologies, making digital transformation a reality.

The economic advantages of migrating to AWS are clear. Organizations reduced compute, networking, and storage costs by up to 66% by migrating from on-premises to AWS.

Source: Enterprise Strategy Group



Key drivers for cloud-based ERP digital transformation

The shift to cloud-based ERP systems is driven by several factors that directly impact business agility, innovation, and operational performance. Oracle JD Edwards modernization on AWS enables businesses to align with the following key benefits:

- **Enhanced customer experience:** By integrating Oracle JD Edwards with AWS services like AI and ML, companies can deliver personalized experiences in real-time, leveraging customer data insights.
- **Innovation at scale:** AWS's suite of services enables businesses to drive innovation by easily integrating IoT data, applying machine learning algorithms, and automating data analytics within their Oracle JD Edwards systems. This fosters continuous innovation, with new features and services being deployed quickly.
- **Improved performance and uptime:** AWS's Multi-Region architecture ensures high availability of Oracle JD Edwards systems, minimizing downtime during disaster recovery scenarios.
- **Lower total cost of ownership (TCO):** AWS eliminates the need for upfront infrastructure investments, such as purchasing hardware and maintaining data centers. This results in immediate savings on capital expenditures (CapEx) while reducing operational expenditures (OpEx) through automation and optimized resource utilization.



- **Enhanced system performance:** By leveraging AWS's robust infrastructure, businesses can improve ERP system performance by reducing latency, improving data throughput, and ensuring high availability through multi-region deployments.
- **Future-proofing:** The flexibility of AWS's cloud services enables businesses to future-proof their Oracle JD Edwards systems by seamlessly integrating emerging technologies, helping organizations stay ahead in their respective industries.
- **IoT integration for real-time data collection:** AWS IoT services allow businesses to connect IoT-enabled devices to their ERP systems, collecting real-time data from machinery, sensors, and devices. This enables predictive maintenance, real-time asset tracking, and operational efficiency improvements.

Reach near-perfect availability with AWS.
One company boosted availability to 99.999%
by migrating their workloads to AWS.

Source: Enterprise Strategy Group, 2023



Steps for a successful Oracle JD Edwards migration to AWS

A successful Oracle JD Edwards migration to AWS requires a carefully planned approach. A thorough process must be followed:

1

Assessment and planning

Conduct a thorough assessment of the existing ERP infrastructure to identify key challenges and opportunities for improvement. This includes evaluating the current licensing model, conducting a Total Cost of Ownership (TCO) analysis, and identifying performance bottlenecks.

2

Selecting the right migration strategy

Depending on the complexity of the Oracle JD Edwards system, businesses can choose between several migration strategies, including lift-and-shift, re-platforming, or re-architecting the ERP environment.

3

Leveraging AWS migration tools

AWS offers a suite of migration tools, such as AWS Migration Hub and Database Migration Service (DMS), to streamline the migration process. These tools help automate the migration of databases and applications, minimizing downtime and reducing migration risks.

4

Testing and validation

Before going live, thorough testing must be performed to make sure that the migrated ERP system performs as expected. This includes performance testing, security validation, and ensuring that integrations with other systems are functioning properly.

5

Ongoing optimization and innovation

After migrating to AWS, continuous monitoring of the ERP system's performance is a must. Additionally, businesses should explore services to drive future innovation and optimize resources.

According to one study, businesses that migrate to AWS can see a 51% reduction in operational costs and a 62% boost in IT staff productivity.

Source: IDC Whitepaper

Why choose AWS for Oracle JD Edwards?

Oracle JD Edwards systems have long served as the backbone of enterprise operations, handling everything from financial processes to supply chain management. However, on-premise Oracle JD Edwards solutions face limitations; scalability, performance, and cost control to name a few. Cloudifying Oracle JD Edwards workloads to AWS overcomes these challenges while unlocking significant advantages:

- **Experience and high availability:** AWS has over 30 years supporting Oracle apps, with over 200+ Oracle Application Managed Services (AMS) Clients, and 300+ active Oracle clients to date. It spans 105 Availability Zones, reaching 33 geographic regions.
- **Reliability:** Oracle provides Premier Support for JD Edwards until (at least) 2035 and will continue to release updates and upgrade features, allowing companies to cloudify without worry.
- **Scalability and flexibility:** AWS allows Oracle JD Edwards systems to dynamically scale up or down based on business needs. Business can innovate, differentiate, and integrate with emerging technology to maintain change of pace, improve the user experience, and enhance the decision-making process.



- **Cost efficiency:** Migrating to AWS reduces the need for expensive hardware, data center management, and the operational costs associated with on-premise environments.
- **Operational productivity:** With AWS, businesses can automate routine operational tasks, optimize ERP performance, reduce manual workload, and gain actionable insights from Data Analytics and Business Intelligence by incorporating AI, ML, and IoT.
- **Security and compliance:** With over 143 security and compliance certifications, AWS provides a secure environment with industry-leading tools for encryption, threat detection, and identity management.

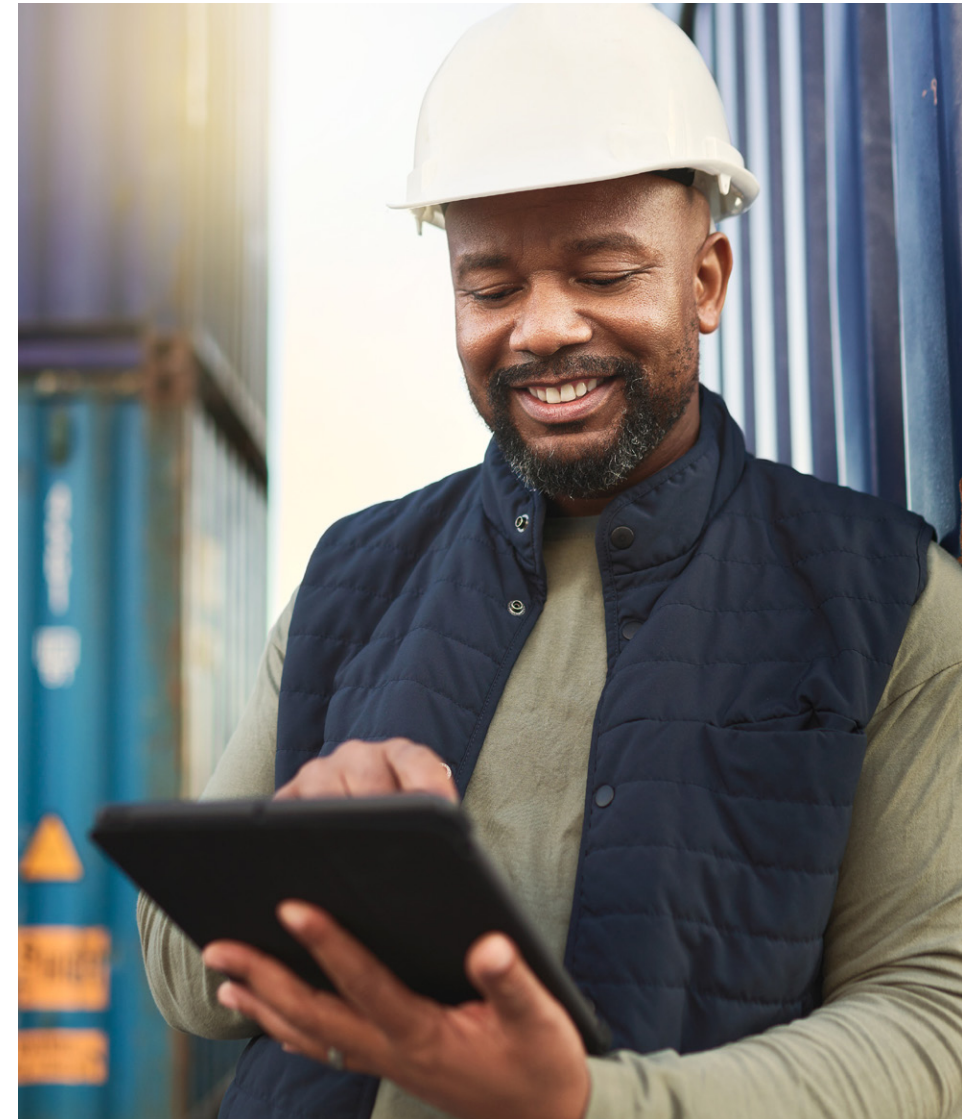
How quickly can you migrate to AWS?
With the right ERP service provider, you
can cloudify in under 3-6 months.



Key to success: identifying the right partner

Selecting the right partner for migrating Oracle JD Edwards systems to AWS is crucial for a successful transformation. With 50+ years of experience and leadership and 26 offices in 15 countries, Syntax, a premier AWS and Oracle Strategic Partner, offers extensive knowledge, specialized expertise, and comprehensive application and cloud managed services:

- **Proven expertise in ERP migrations:** With over 300+ active Oracle clients, Syntax has been at the forefront of implementing and managing ERP solutions, including Oracle's JD Edwards and E-Business Suite. Their deep understanding of these systems and AWS Competency and Program achievements demonstrates the highest level of proficiency and ensures a seamless migration to AWS.
- **AWS Premier Partnership:** As an AWS Premier and Managed Service Provider Partner, Syntax leverages AWS's robust infrastructure to deliver scalable, secure, and high-performance ERP environments. This partnership underscores their capability to handle complex migrations and provide optimized and customized solutions.
- **Comprehensive managed services:** Syntax offers end-to-end managed services, encompassing 24/7 support, system monitoring, and regular maintenance. This holistic approach ensures your ERP system operates at peak performance, allowing your team to focus on strategic business initiatives



▪ **Specialized programs:** Companies who partner with Syntax benefit from three unique programs that transform Oracle applications. Through these services, Syntax can jumpstart development, reduce time to value, and mitigate risk.

- Oracle Discovery Workshop: During this process, Syntax learns more about a company's specific needs, including disaster recovery and high-availability options, migration approaches, backup solutions, and team training.

- Optimization and Licensing Assessment (OLA): Available for Oracle databases and applications, Syntax assesses and analyzes the company's existing licenses and coverage, evaluating their Total Cost of Ownership (TCO) and co-investment opportunities, and provides recommendations based on technical and non-technical priorities.

- Oracle Migration Acceleration Program (MAP): MAP combines methodologies, tools, and training to set clear business goals, allowing companies to develop cloud skills. This process helps to identify and address migration pain points, including deconstructing on-premise tech hubs, performance, security policies, and business rules. During MAP, Syntax supports business case development and calculates TCO/ROI.

▪ **Security and compliance focus:** Understanding the critical importance of data security and regulatory compliance, Syntax provides solutions with military-grade data encryption and adheres to stringent compliance standards. This commitment safeguards your sensitive business information throughout the migration process and beyond.

▪ **Tailored solutions for diverse industries:** Syntax recognizes that each industry has unique requirements. They offer customized solutions that align with specific business processes and objectives, ensuring a smooth transition to AWS while maintaining operational continuity.

By partnering with Syntax for your digital transformation to AWS, you gain a trusted ally dedicated to delivering mission critical applications, advisory, management, and security, setting the stage for a successful, secure, and efficient migration that will result in business agility and growth.



The future of ERP is in the cloud

Migrating Oracle JD Edwards systems to AWS is a strategic decision that solves numerous business challenges, including scalability and flexibility, cost control, security and compliance, and digital disruption. AWS provides the robust infrastructure, advanced services, and global reach necessary to support the modernization of legacy ERP systems. By integrating AI, machine learning, IoT, and advanced analytics into ERP processes, businesses can unlock new growth opportunities, improve customer experiences, and drive operational efficiency. AWS enables enterprises to future-proof their ERP systems, making digital transformation not only possible but inevitable. With Syntax, a proven and premier AWS and Oracle Strategic Partner, guiding their digital transformation, organizations will be poised to innovate and differentiate for years to come.

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Take the first step

Learn how Syntax can help your business.

If you want to learn more about Syntax Solutions and how they can help you deliver a more proactive, insight-driven, and value-focused customer experience, contact us today.

Visit syntax.com to learn more and see how Syntax Solutions would work for you.



Why Syntax

Syntax provides comprehensive technology solutions and trusted professional, advisory, and application management services to power businesses' mission-critical applications in the cloud.

With over 50 years of experience and 900+ customers around the world, Syntax has deep expertise in implementing and managing multi-ERP deployments in secure private, public, hybrid, or multi-cloud environments. Syntax partners with SAP, Oracle, AWS, Microsoft, and other global technology leaders to ensure customers' applications are seamless, secure, and at the forefront of enterprise technology innovation.



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