



5 reasons enterprise organizations are migrating Oracle ERP applications to AWS

Transform your Oracle ERP applications by migrating and modernizing on AWS



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INTRODUCTION

The future of Oracle ERP applications is in the cloud

Your Oracle enterprise resource planning (ERP) applications are critical to keeping your organization competitive and your end customers happy. This means that maintaining the health and resilience of your ERP is paramount to preventing downtime, keeping productivity high, increasing visibility and scalability, and driving innovation.

If you are still using an on-premises solution for your Oracle ERP applications, you are likely:

- Paying too much for your current licensing estate
- Overallocating compute/storage resources due to peak usage planning
- Maintaining security at a high level without a conscious risk mitigation strategy
- Struggling to leverage trapped data and insights locked inside ERP
- Running an over-provisioned and highly expensive disaster recovery system
- Experiencing the additional overhead of aging application infrastructure

These reasons—coupled with the benefits of cloud technology advancements such as artificial intelligence (AI), machine learning (ML), advanced analytics, and the flexibility and scalability of the cloud—demonstrate a clear case for migrating your Oracle ERP applications to Amazon Web Services (AWS). From higher total cost of ownership (TCO) and vendor lock-in to limited scalability and maintaining and upgrading capital-intensive on-premises data centers, you are not getting as much from your technology investments as you could. Additionally, on-premises disaster recovery can be unreliable and can interrupt your mission-critical services. The rigidity of your on-premises solution may be hurting your organization more than you think. By migrating Oracle ERP applications (such as JD Edwards, PeopleSoft, and E-Business Suite) and other business applications to the cloud, you can transform your Oracle ERP applications to a cost-optimized, modern, agile, scalable, and secure platform that can help you drive innovation.

Because technology is not going to stop evolving, it is time to think about how the cloud can help you meet your business needs.

TRENDS AND DRIVERS

Why migrate your Oracle ERP applications to the cloud?

Organizations everywhere are looking for ways to reduce overhead, drive innovation, and become more agile. Increasingly, the answer to all of these needs is migrating to the cloud. With more than half of all ERP systems expected to be in the cloud by 2025, the time to migrate to optimize the use of resources is now.¹

Migrating to the cloud is not just the latest trend in business; it is a significant factor that helps boost the timely use of data for decision making, drive supply chain agility, and automate and simplify business processes. In fact, organizations that migrate systems to AWS achieve concrete business outcomes, with ERP application owners increasingly wanting to take advantage of the cloud to build out cloud-enabled and data-driven enterprises.

For more than 10 years, Oracle ERP applications, such as JD Edwards, PeopleSoft, and E-Business Suite, have been easily migrating to the AWS Cloud. Once migrated, Oracle users can leverage any of the 15+ purpose-built database offerings optimized to support diverse data models.

By migrating to the AWS Cloud, Oracle users can take advantage of an unlimited potential for savings, increased business agility, faster innovation, and an improved disaster recovery profile.

¹ "Gartner Says More Than Half of Enterprise IT Spending in Key Market Segments Will Shift to the Cloud by 2025," Gartner, February 2022

² "The Business Value of Amazon Web Services," IDC, June 2022



Economic impact of AWS over 5 years²



86% more staff time for innovation

47% more efficient IT infrastructure teams

413% five year ROI

50% or lower cost of infrastructure

Why AWS for Oracle ERP applications?

AWS has migrated ERP applications for 7,000+ enterprise customers across the globe. As a leader in digital transformation, AWS has the tools and solutions to support you no matter where you are in your digital transformation journey. By moving your existing applications to the AWS Cloud, you gain flexibility and security, helping you meet customer needs as they evolve.

With 200+ cloud services to integrate with, you can drive innovation like never before. Utilize emerging technologies such as AI and ML to enable automation and unlock deeper insights from your data. Achieve your high-availability

and disaster recovery goals with our ever-increasing availability zones and geographic regions around the world (currently at 99 Availability Zones in 31 geographic regions).³ By getting more from your current investments, you can use analytics to become truly data-driven and make decisions that will delight and exceed your customers' expectations.

³ AWS Global Infrastructure, February 2023



Most reliable and secure cloud infrastructure



200+ cloud services to innovate with



Organizational productivity with automation



Proven infrastructure cost optimization



Oracle database choice and flexibility



Innovation and experience with Oracle on AWS

1. The promise of the AWS Cloud for Oracle customers



Move your Oracle ERP on-premises solutions to the AWS Cloud and get more innovation and better resource allocation

Large budget expenses such as hardware, maintenance, support, data centers, and licensing costs reduce your ability to invest in innovation. Team members spend the majority of their time on non-value-added tasks, such as maintaining your current on-premises solutions instead of finding new ways to drive innovation. From ensuring the systems are running properly to disaster recovery, your team could be spending this time on high-value business tasks such as improving customer service, automating processes, analyzing data, and more.

By running your Oracle ERP applications on AWS, you can reduce costs by eliminating hardware and on-premises maintenance costs while taking advantage of the robust AWS disaster recovery capabilities. The **AWS Optimization and Licensing Assessment** (AWS OLA) provided by AWS Partners can evaluate your current third-party licensing costs and provide a plan to run your resources more efficiently.



EQUIFAX

“We anticipate major growth in our billing processes in the near future, and AWS enables us to truly go global to support that. By running our platforms on AWS, we can support an always-on strategy that gives our business users the ability to communicate with us at all times across the globe.”

Gautam Tulsian,
SVP & CIO, Global Finance,
Equifax

2. Simplify your ERP landscape in the cloud

Successful organizations are constantly looking to and planning for their future. On-premises solutions are not only costly, but they also prevent you from taking advantage of new technologies that can help you improve your business both internally and externally. When you migrate your Oracle investment to the AWS Cloud, you get products and services designed to help you reach your simplification goals.

As IT operations are at the heart of every organization, operating in the cloud allows IT teams to focus on business outcomes and optimizing IT processes while accelerating software development and innovation. Companies of every size have realized benefits from moving to the AWS Cloud, including a lower cost of operations, stronger operational resilience, and a smaller carbon footprint.

AWS Serverless refresh provides you the ability to automate QA system refreshes in a parallel isolated QA system without impacting the existing QA instances and then swap it with the old QA instances. This ensures the

current production support path is not impacted at any time because there is a QA system always available for testing.

For tasks such as provisioning, you can create virtually any number of new environments in minutes as required for each major project. Each team can work independently with the resources they need without interfering with other teams, converge at a common integration environment when they are ready, and then shut the environment once the project is complete.

Additionally, in the AWS Cloud, you can simply upgrade to new AWS instance types in a single click at no cost for the upgrade. Such features will enhance system monitoring and lower operations cost. By moving your Oracle application to the AWS Cloud, organizations can get a more visible, controlled, and secure ERP landscape.

3. Protect yourself from downtime on the most resilient cloud

Reduce higher disaster recovery costs by paying as you go

Using a dynamic disaster recovery solution such as [AWS Elastic Disaster Recovery](#) (AWS DRS) enables a more modern approach to protecting your Oracle databases. This powerful solution significantly reduces disaster recovery infrastructure costs and enables rapid recovery of your Oracle database environment and entire machine state by replicating database, application, and system files. In cases where uninterrupted business continuity is critical, this difference means that you can affordably achieve recovery times of minutes rather than hours or days.

With AWS, you also get the advantage of remote recovery zones to help ensure you remain in compliance with strict governance and security laws. For example, if your business is located in Florida, you can have a recovery zone in California that you can utilize for disaster recovery.

The traditional on-premises to on-premises disaster recovery approach for Oracle databases requires duplication of infrastructure, operating systems, and software licenses, rendering it a highly expensive IT project. In addition to incurring prohibitive costs, this approach has another disadvantage: It can replicate only the database itself but not the other components of the application, which is critical to recovering the entire machine and application state.

This is also a time-intensive method of disaster recovery. Team members must spend time on a regular schedule to maintain it and keep it ready to deal with an emergency. When a disaster strikes, there is no time to wait for slow on-premises solutions to come online and start working. Any amount of downtime is money and reputation lost.

4. Respond faster to changing market conditions and needs



Only pay for the infrastructure you need with the flexibility and agility of the AWS Cloud

Unexpected demands can dictate the need to expand or scale back your on-premises environment. To do this while maintaining (or even lowering) costs can prove difficult. The process of reducing your infrastructure to save money or expanding response to meet growing demand is expensive, time consuming, and impossible to do without preparation.

As dynamic flexibility is built into everything AWS does, you can benefit from this flexible infrastructure in the AWS Cloud. For example, if you are using a development environment for only 40 hours a week (five days a week, eight hours a day), you can shut down the environment when it is not in use. You pay only for 40 hours of **Amazon Elastic Compute Cloud** (Amazon EC2) compute charges instead of 168 hours (24 hours a day, seven days a week) for an on-premises environment running all the time; **this can result in a savings of 75 percent for Amazon EC2 compute charges.**⁴

⁴ "Overview of Oracle E-Business Suite on AWS," AWS whitepaper, 2023



"We wanted to move to a platform that offered built-in elasticity capabilities that could quickly grow to support our peak usage..."

Shawn Bryan,
ASU Cloud Migration Advisor,
Arizona State University

Your customer needs and business requirements to fulfill those needs can change rapidly due to evolving market, sociopolitical, and environmental conditions. It can be difficult to plan for changes that are hard to predict, but that does not mean that you cannot increase your ability to respond quickly. AWS helps empower Oracle users to simplify operations by adding automation and reducing infrastructure complexity. This creates an environment where changing needs can be managed with agility and speed and mission-critical application workloads can run interrupted.

5. Extend the value of Oracle ERP applications with automation, AI and ML, and advanced analytics

Stay ahead of a changing world with emerging technology solutions

By using the power of AI and ML and advanced analytics, you can gain new insights from your Oracle ERP applications data, enabling you to identify trends, differentiate your business, and create new efficiencies. Develop a deeper understanding of your customers and market trends to help your business stay ahead of competitors. As technology evolves, you can quickly deploy new cloud solutions in minutes instead of weeks or months. This ability to pivot as innovation happens allows you to remain competitive and get the most from your Oracle ERP applications.

The AWS Cloud is built for a changing world

New technologies such as AI and ML can help you increase automation in your operations, leading to simplified solutions that save time and money. With cloud-centered services that easily integrate with your existing applications, you can respond to the changing needs of your customers with agility and speed.

9,000+ solutions

200+ services built for the cloud

CASE STUDY

Equifax uses AWS to achieve higher scalability and performance for mission-critical financial applications



The challenge

Maintaining an on-premises environment for its mission-critical internal financial applications, including the Oracle E-Business Suite-, Oracle Hyperion Suite-, and Oracle BRM-based billing applications, led to scalability and performance challenges.



The solution

- Equifax migrated its entire Oracle ERP applications suite to AWS and utilized AWS Partner **Cloudreach**, as well as AWS CloudEndure Migration, to simplify, expedite, and automate large-scale migration of the Oracle BRM application to AWS
- Equifax now runs on hundreds of Amazon EC2 instances and uses **Amazon Elastic Block Store** (Amazon EBS) for persistent block-level storage
- Equifax's applications run on more than 850 vCPUs, storing over 100 terabytes of data across approximately 350 Amazon EBS volumes and 31 **Amazon Relational Database Service** (Amazon RDS) instances with a database size of 12 terabytes



The benefits

- Improved its Hyperion reporting performance by up to 300%, resulting in faster reporting to meet close-of-business deadlines for monthly reporting
- Enhanced performance through easier adjustments of its ERP and billing systems compared to its on-premises environment
- Increased scalability and reliability across the globe to meet current and future growth

[Read the case study to learn more ›](#)

Oracle on AWS

AWS Oracle Competency Partners

To help you migrate your Oracle ERP applications to the cloud, AWS has an expansive network of AWS Competency Partners that specialize in helping customers architect, deploy, and manage Oracle-based workloads in the AWS Cloud. These partners have the experience and AWS expertise to help you improve scalability, security, availability, and efficiency, all at a lower TCO.

[Learn more about our AWS Oracle Competency Partners ›](#)

AWS Marketplace

Quickly find, test, buy, and deploy software that runs on AWS to meet your needs. With AWS Marketplace, you can easily apply and launch AMI images for Oracle ERP applications and find AWS Partners that can help you on your journey.

[Go to AWS Marketplace ›](#)



Resources

Next steps

- Visit the [Oracle Applications on AWS page](#) for more information
- Find a specialized [AWS Oracle Competency Partners](#)

Additional resources

- [AWS Elastic Disaster Recovery](#)
- [AWS Migration Acceleration Program \(AWS MAP\)](#)
- [Oracle Applications on AWS Resources](#)