Case Study

Intel® Xeon® Processors

DXC Luxoft Migrates EarlyResolution* Software to AWS, Increasing Performance and Scale for Financial Industry Customers

Hosting its application on Amazon EC2 instances with 4th Gen Intel® Xeon® processors paves the way for future EarlyResolution enhancements like GenAI integration.

Solution Ingredients

- Amazon EC2 Instances
- 4th Gen Intel® Xeon® processors

Executive Summary

DXC Luxoft provides software solutions for various market segments. Among other applications in DXC Luxoft's portfolio, EarlyResolution* software offers a default management solution deployed at leading banks and financial services firms. EarlyResolution has a solid record of meeting the needs of its banking industry clients that provide mortgage, auto, and personal loan products. However, after many years of hosting EarlyResolution in a DXC data center, DXC Luxoft migrated its application to Amazon EC2 instances supported by 4th Gen Intel® Xeon® processors. This move to AWS augmented the solution's security capabilities while enhancing scalability and performance for EarlyResolution's global customers. Amazon and Intel technologies underlying the Amazon instances also set a foundation for AI capability to provide customers with improved automation, efficiency, and adaptability in the years ahead.

Challenge

The "Luxoft Beyond" initiative provides comprehensive, as-a-Service solutions that help financial services businesses undergo strategic technology transitions.

DXC Luxoft migrated its EarlyResolution software, a default management solution deployed at financial services firms, to Amazon EC2 instances supported by 4th Gen Intel® Xeon® processors to augment the solution's security capabilities while enhancing scalability and performance.

Among those solutions, DXC Luxoft's EarlyResolution helps customers by providing common hosting services, DevOps, and support.

For 15 years, DXC Luxoft hosted EarlyResolution as a SaaS-based utility in a DXC-secured data center. However, maintaining a SaaS-based utility using on-premise hardware can come with significant overhead. The DXC Luxoft team recognized that migrating to optimized Amazon instances supported by Intel Xeon processors could provide a more performant and secure solution. The move would also offer an improved roll-out experience and better scale for new and existing global customers. DXC Luxoft also wanted to provide its users with additional benefits in the future, like harnessing the power of GenAI to streamline processes and make them more efficient.

Solution

DXC Luxoft chose to host EarlyResolution on AWS EC2 instances powered by 4th Gen Intel Xeon Scalable processors. The combination proves an excellent choice for CPU-intensive financial services applications like risk analysis, fraud prevention, and financial modeling.

AWS and Intel teams worked together to optimize the EarlyResolution software and database environments for Amazon EC2 instances, improving customer experiences and offering improved responsiveness. The migration to AWS also delivered the cost-benefit of harmonized cloud services and other capabilities needed for expanding services to DXC Luxoft's client base.

> "This strategic move to AWS and Intel reinforces our commitment to innovation and client satisfaction. By harnessing the power of AWS and Intel, we are well-positioned to deliver an unparalleled default management automation solution to our clients worldwide. Following the migration, our clients have experienced faster performance and enhanced processing, delivering an improved user experience. These advancements mean a more reliable, efficient, and seamless experience."
>
> *—Antony Coppellotti, Global Core Banking Solutions Lead, DXC Luxoft*

Amazon and Intel technologies opened the door for future generative AI capabilities that offer DXC Luxoft customers even more value. The Intel Xeon processors underlying the instances offer AI accelerators like Intel® Advanced Matrix Extensions (Intel® AMX) for faster machine learning and Intel® Advanced Vector Extensions 512 (Intel® AVX-512) for acceleration of analytics workloads. Plus, as future, higher-performing processors become available on AWS instances, DXC Luxoft plans to migrate to make the most of the newest hardware seamlessly.

Results

The move to AWS instances gives DXC Luxoft's global EarlyResolution customers improvements in performance, enhanced processing, and an improved user experience.

The new EarlyResolution hosting solution provides DXC Luxoft with long-term reliability and elasticity. The migration also underscores DXC Luxoft's commitment to environmental, social, and governance (ESG) goals by reducing reliance on data center server refreshes, optimizing resources, and reducing energy consumption.

Amazon EC2 instances and Intel technologies also give DXC Luxoft an AI-capable technology backbone, enabling future GenAI-driven analysis and detection improvements for the financial services sector.

Key Takeaways

- Amazon and Intel's technologies and optimization techniques can enhance software performance and reduce the cost of maintaining data center hardware.
- Optimizing software for cloud deployment can maximize the benefits of dynamic scaling and on-demand consumption.
- An as-a-Service model makes it easier for ISVs to implement new features and enhancements that make their applications more valuable to current and future customers.
- Working closely with Amazon and Intel can help ISVs to navigate the complexities of the as-a-Service transition and maximize performance for improved customer experiences.

For More Information

- Learn about AWS EC2 instances.
- Explore Intel Xeon processors.
- Get insights on DXC Luxoft.

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