Case Study

Intel® Xeon® Processors

Amazon EC2 Instances, Supported by Intel® Xeon® Processors, Saved Major US Mortgage Financing Company $25 Million in 2022

CloudSaver and Intel helped the organization identify optimal Amazon EC2 instances to accelerate its workloads while dramatically cutting costs.

Solution Summary

- Amazon EC2 R6i and M6i instances
- 3rd Gen Intel® Xeon® processors
- Intel libraries for workload optimization
- CloudSaver Tag Manager

Executive Summary

Over the last few years, a leading mortgage financing company in the United States moved 90 percent of its application workload to Amazon EC2 instances. While that change offered the organization many benefits, the company sought additional ways to reduce its hosting costs. In 2021, the financing company worked closely with CloudSaver, a leading cost optimization solution provider for enterprise IT organizations, and Intel to identify the most highly optimized and cost-effective solution for their needs. Their evaluation suggested running applications on Amazon EC2 M6i and R6i instances with 3rd Gen Intel® Xeon® processors resulted in significantly better price performance. According to CloudSaver, its customer saved over $25 million in 2022.[1]

Challenge

The organization needed ways to maximize its application hosting environment for better price performance. While its Financial Operations (FinOps) team had detailed insight into its organization, they wanted experts with the right skills and tools to help them identify and optimize the ideal Amazon EC2 instances for their workloads without over-provisioning.

Solution

The FinOps team tapped its relationships with CloudSaver and Intel to identify application hosting options with greater price performance. CloudSaver implemented analytics and its proprietary Tag Manager tool to monitor the

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mortgage financier's usage and obtain insights down to the CPU level. The tagging process also offered insight into downstream tooling that could elevate performance. With supplemental aid from Intel's team and tools, the evaluation revealed how Amazon EC2 R6i and M6i instances powered by 3rd Gen Intel Xeon processors and Intel's optimized libraries could increase the speed of the customer's applications. Based on that information, the team provided the mortgage financier with specific migration recommendations to maximize efficiency and reduce costs.

Results

The customer adopted CloudSaver and Intel's recommendations and migrated its Amazon workloads. After that change, the mortgage financing company found that the more powerful processors and the features built into them made it possible to run workloads in a shorter time. The customer saved over $25 million in 2022.

Key Learnings

- **Having C-level support:** The FinOps team aggressively pursued cost savings opportunities with full support from the organization's top executives and transparency across the organization. Also, the customer, CloudSaver, and Intel divided roles and responsibilities to evaluate the hosting environment quickly, ensure accountability, and form recommendations.
- **Re-scoping needs:** The team used its combined expertise to revisit the mortgage financing company's application hosting goals and appropriately scope Amazon instance requirements.
- **Using the right tools:** CloudSaver's Tag Manager and analytics, combined with Intel's optimized libraries, gave the customer real-world data to determine which tailored Amazon instances met scope requirements without over-provisioning.
- **Cores, memory, and price are not the only factors for optimized performance.** In this customer's case, the features and accelerators built into 3rd Gen Intel® Xeon® processors provided an ideal combination to maximize application speed on Amazon instances.

For More Information

Explore Intel Xeon processors

Learn more about CloudSaver solutions

Explore Amazon EC2 R6i and M6i instances

intel + aws

[1] Visit cloudsaver.com for more information.

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