

A man with glasses and a beard, wearing a green sweater over a light blue shirt and a dark tie, stands in a server room. He is holding a laptop and looking at it. The background shows server racks with blue and purple lighting.

HEXAWARE

Load and Performance Testing for Cloud Migration

Optimizing performance for one of the
world's largest e-commerce marketplaces.

Case study

Client

| Client

- Challenge
- Solution
- Benefits
- Summary

Our client is a global leader in e-commerce known for its marketplace of unique and creative goods. To focus on new features and services, the company decided to migrate its infrastructure to Google Cloud Platform (GCP) to enhance flexibility and scalability.



Challenge

Client

| **Challenge**

Solution

Benefits

Summary

With a vast infrastructure supporting over 33 million users, generating 1.2 billion events per day, and handling 40 million requests per hour, the client needed comprehensive load and performance testing to ensure its GCP infrastructure could sustain these volumes, especially during peak holiday seasons. A tight migration deadline added urgency to this process.

Key challenges included:

- Simulating large-scale global user traffic beyond current levels
- The absence of previous performance baselines for accurate testing
- Executing distributed load and stress testing across multiple geographic locations
- Ensuring seamless Google Cloud Platform migration within a strict timeline

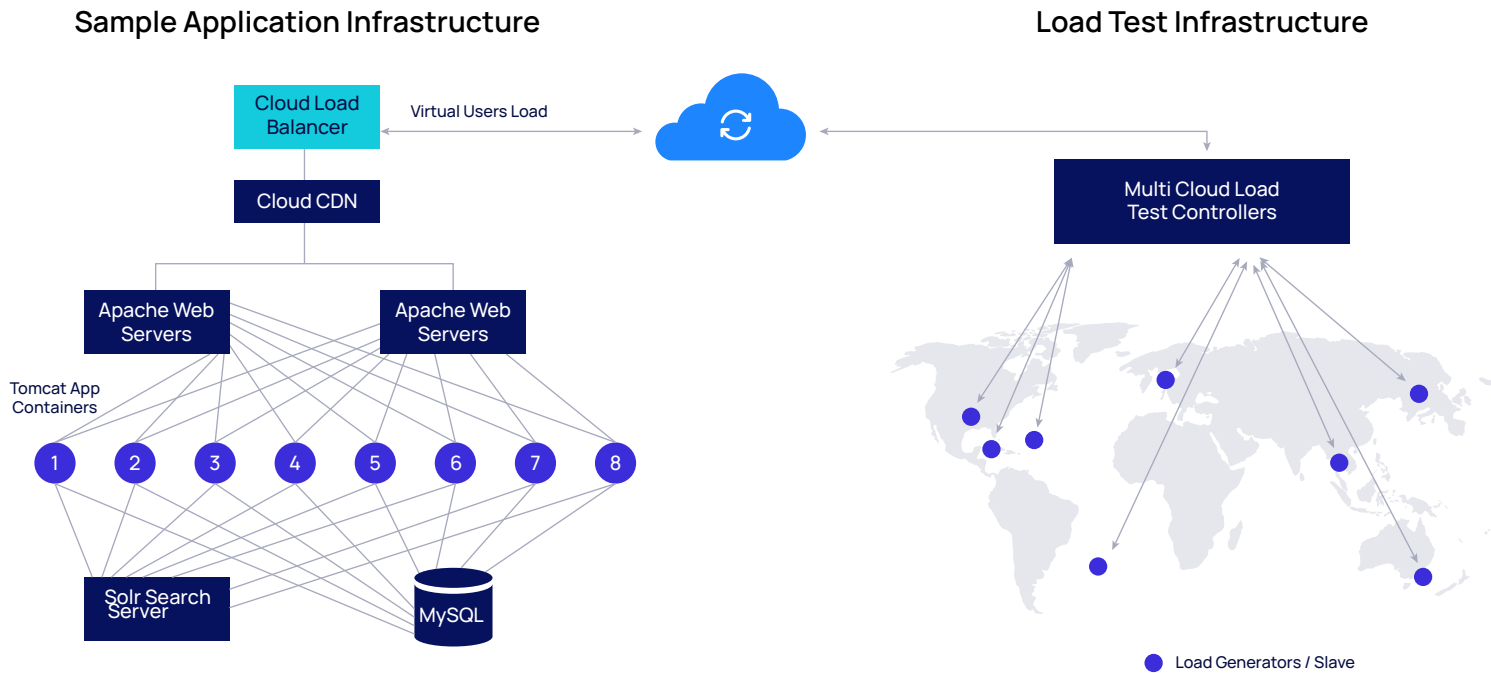


Solution

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Softcrylic, a part of Hexaware, with its deep expertise in load and performance testing services, was chosen to lead the engagement. Leveraging open-source tools and public cloud services from AWS, Google, and Azure, we assembled a team of test engineers to design, develop, and execute large-scale distributed load tests.

- Key actions:
- **Baseline Establishment:** Collaborated with the client’s analytics team to capture real-time user traffic and establish key performance baselines through low-scale tests during non-peak hours.
 - **Distributed Load Testing:** Conducted comprehensive large-scale load tests across various scenarios, simulating both normal and peak holiday traffic from diverse geographic regions.
 - **Seamless Execution:** Delivered a phased approach covering discovery, design, development, execution, and reporting. Our performance testing team worked closely with the client’s technical teams to ensure optimal results.



Benefits

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Our implementation of this comprehensive solution delivered substantial benefits to the client, including:

- **Cloud Readiness:** Validated the GCP infrastructure’s ability to handle both normal and peak traffic loads with optimal performance.
- **Global Scalability:** Ensured the e-commerce platform could deliver a seamless experience for users globally during high traffic periods.
- **Improved Performance Baselines:** Established performance benchmarks to assess key pages, user actions, and end-to-end transactions for future enhancements.
- **Timely Migration:** Enabled the client to meet their tight cloud migration deadline ahead of the critical holiday season, ensuring business continuity.



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| **Summary**

Softcrylic, a part of Hexaware, partnered with one of the leading e-commerce marketplaces to provide load and performance testing for its Google Cloud Platform migration. By designing and executing large-scale distributed load tests, we ensured the client’s cloud infrastructure was resilient enough to handle its extensive user base and high traffic volumes, especially during peak seasons. The result was a successful and timely cloud migration, enabling the client to focus on strategic growth and innovation.



About Hexaware

Hexaware is a global technology and business process services company. Every day, Hexawarians wake up with a singular purpose: to create smiles through great people and technology. With this purpose gaining momentum, we are well on our way to realizing our vision of being the most loved digital transformation partner in the world. We also seek to protect the planet and build a better tomorrow for our customers, employees, partners, investors, and the communities in which we operate.

With offices across the world, we empower enterprises to realize digital transformation at scale and speed by partnering with them to build, transform, run, and optimize their technology and business processes.

Learn more about Hexaware at www.hexaware.com.

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