

Elastic is more cost effective than AWS OpenSearch

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How Elastic lowers your cost

There's a common misconception that AWS OpenSearch is cheaper than Elasticsearch that simply comes from seemingly low hourly rates of OpenSearch. However, this does not reflect the true cost. The following factors need to be considered when comparing the costs of equivalent workloads running on these two systems:

Elasticsearch is on average 80% faster in key search operations using up to 37% less storage, significantly lowering the cost of computing resources and storage. A [benchmark report](#) validated by TechTarget's Enterprise Strategy Group compared the performance of Elasticsearch with that of the OpenSearch project. Results apply to AWS OpenSearch and OpenSearch on other clouds, e.g., Oracle's "Search with OpenSearch" service. The benchmark shows:

- **Elasticsearch is 42% - 81% faster across five key areas** (text querying, sorting, data histograms, terms aggregations, and range queries). This means for the same number of queries and search operations, far fewer computing resources are required.
- **Elasticsearch achieved faster performance with 37% less storage.** This translates directly to significant cost savings on storage for customers, especially those with large volumes of data.

The following diagram summarizes the benchmark results in the report:

Performance validation

Elasticsearch > OpenSearch and uses 37% less storage

76%

Text Querying

Show all data that has jane doe

58%

Sorting

Show the most expensive products first

81%

Data Histogram

Show a bar chart ordered in time for all data

61%

Terms

Group data by what products were purchased

42%

Ranges

Only show data from January to February

Elastic's enterprise support reduces downtime and provides faster time-to-value. We provide 24/7 support coverage, with technical expertise that is a testament to being the original creator of the OpenSearch technology. We also have consultants specialized in customer solutions. Elastic's customer support and consulting services deliver reliability and cost-effective, tailored solutions to meet customer needs.

For more details on how Elastic lowers costs both directly and indirectly, please see this report "[Elasticsearch surpasses OpenSearch in Cost Efficiency](#)".

Significant cost reduction proven by customers

Customers ranging from startups to industry giants, with a myriad of use cases, have achieved significant cost reductions migrating from AWS OpenSearch to Elastic.

Here are a few examples:

- **A Brazilian midsize commercial bank reduced cloud log storage costs by 58% after migration.** This customer moved off AWS OpenSearch and implemented Elastic's Observability platform to monitor the entire customer journey of their banking, credit and consumer services applications. This Elastic implementation not only enabled the customer to collect and view logs, record each action within the application in real time, but also resulted in a 58% reduction in cloud log storage costs. Since migration they have supported more than 25 million customers and grown their customer base by 230%.
- **A US real estate marketing technology startup cut their monthly search bill by 42.5% after its migration to Elastic.** This customer migrated its applications from AWS to GCP for a lower cost and more up-to-date architecture. The customer was able to cut their monthly bill on AWS OpenSearch by 42.5% immediately after using Elasticsearch on GCP. Elastic's consulting team helped with the migration, minimizing production downtime. After migration, the customer has grown its data volume quickly, continuing to operate at lower cost.
- **An on-line wholesale marketplace company delivers equivalent performance to customers with Elastic at 53% lower cost after migration.** This customer moved off OpenSearch due to its lack of performance and support as well as its high cost of provisioning. Elastic was chosen as the search engine for fast response time and high reliability, because it's mission critical to their customer satisfaction.

After migration, this customer cut costs by 53% while delivering the same performance, due to Elastic's more efficient usage of resources. They soon expanded the platform with machine learning features to deliver a better search experience for their customers.

- **A multinational telecom giant reported lower TCO delivered by Elastic after consolidating Observability and Security solutions from AWS OpenSearch and Splunk.** "Elastic offers a more strategic approach than other providers where it felt like we were incurring more and more debt," VP, Software Strategy & Transformation said, "There's also a stronger sense of partnership. We can always turn to the team at Elastic for quick answers if we have any issues." This proves that Elastic's superior enterprise support reduces downtime and provides faster time-to-value, therefore lowers TCO.

This customer uses Elastic Observability to ingest about 400TB of telemetry data and monitor more than 50,000 software builds per day. The consolidation of observability and security solutions on Elastic enables a single pane of glass to monitor this large scale of applications at a lower cost. Going forward, this customer is considering using more Elastic products to further lower the cost of delivering innovative features to customers including [Elastic AIOps](#) which uses domain-specific machine learning and anomaly detection to reduce manual troubleshooting as well as [Elastic OpenTelemetry](#) for analyzing distributed traces and metrics, and monitoring business KPIs and technical components.

