SUCCESS STORY

BigID tames massive data growth with Elastic for scalable security through Elastic Cloud, on AWS

Region
United States

Industry
Professional Services

Solution
Elasticsearch, Elastic Cloud, Kibana, AWS

Accelerate queries by 120x

- With Elasticsearch, queries that previously took 20 minutes now run in a matter of seconds, vastly improving the BigID customer experience.

Reduces time-outs by 100% on counts and aggregation queries

- With Elasticsearch, BigID has reduced query times on search, dashboard, and reports modules so that they never exceed the cutoff point.

Provides a future-proof platform for data growth

- BigID can now handle vast data volumes with intricate details, enabling complex filtering and aggregation with Elasticsearch.

Elastic empowers BigID to deliver fast data insights, reduce risk, and ensure compliance across hybrid environments.

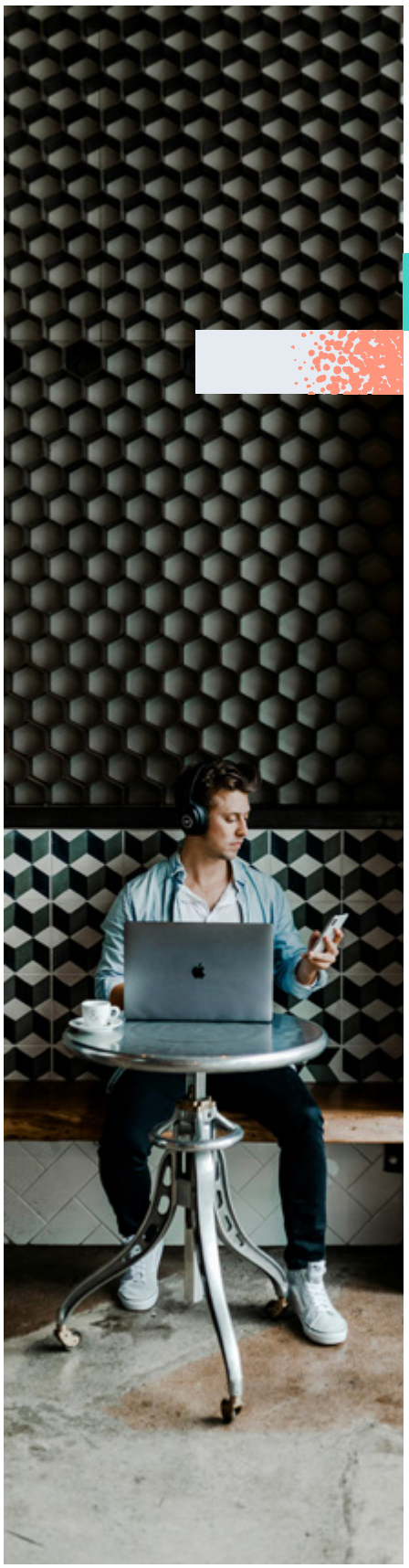
BigID, a data security, compliance, privacy, and AI data management leader, helps organizations manage an ever-expanding sea of information scattered across disparate cloud, software as a service, and on-premise environments. Its clients gain a comprehensive understanding of their data across the entire data landscape. This allows them to mitigate risk by addressing potential security vulnerabilities and reduce compliance costs by simplifying adherence to relevant regulations.

Managing ever-growing data volumes is an ongoing challenge, especially in complex hybrid architectures. In these situations, data search can become a struggle. For BigID, frequent schema migrations and index additions became necessary to maintain performance, but can be challenging at scale. This also hampered the ability to support ad-hoc searches across various data fields.

Tomer Negbi, Director of Engineering, BigID turned to Elastic. “As we grew in scale and adoption, a cloud-first approach, the need for a more scalable search solution became paramount,” he says. “We saw the potential of Elasticsearch, running on Elastic Cloud and AWS, for real-time, indexed search and analysis of unstructured data that doesn’t use native indexing.”

> The need for a more scalable search solution became paramount.

Tomer Negbi
Director of Engineering, BigID



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Indexing massive volumes of data in real time

Negbi gives the example of a large insurance company with billions of records. BigID empowers the organization to filter and explore data with ease. For instance, performing a complex query, such as identifying objects with certain attributes within a particular date range and data source, would traditionally be inefficient and require significant pre-indexing, potentially exceeding the data size itself. Elasticsearch's strength lies in handling these scenarios efficiently.

In addition, customers can easily configure the pipeline through BigID's user interface, specifying the data sources and connectors to be scanned, with scans prioritized based on their needs.

> Elastic Cloud's scalability is perfectly aligned with our customers' needs: handling vast data volumes with intricate details and enabling complex filtering and aggregation.

Tomer Negbi
Director of Engineering, BigID

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Dashboards for discovery

“We provide out-of-the-box dashboards highlighting key metrics of interest to users,” says Negbi. Customers can also collaborate with BigID to define and build custom metrics tailored to their needs.

For example, a client might discover that the majority of business risk is concentrated in just 10% of the data. Meanwhile, other clients might want to understand specific geographic locations of data to ensure compliance with regional privacy regulations.

> Scaling data ingestion efficiently and presenting the results in a way that is user-friendly and searchable are critical for our customers. Elastic excels in both areas, enabling us to curate and manage vast data landscapes.

Tomer Negbi
Director of Engineering, BigID

By migrating data-driven modules from its existing data storage platform to Elastic, BigID has achieved significant performance improvements. “Queries which previously took 20 minutes now run in a matter of seconds, 120 times faster - that’s a massive improvement,” says Negbi.

Additionally, query timeouts disappeared, replaced by faster responses and an improved user experience. Negbi says, “This newfound agility allows us to develop innovative features, reduce costs, and remain at the forefront of our industry.”

Negbi and his team also benefit from Elastic’s flexibility and speed. Development teams were previously forced to spend considerable time troubleshooting and building workarounds. Adding Elasticsearch can potentially resolve these issues and significantly improve customer satisfaction.

BigID was founded in 2016 by Dimitri Sirota and Nimrod Vax and operates out of offices in New York City and Tel Aviv.

Partnering for a successful future

Working closely with the Elastic team enables BigID to give feedback on new releases. Negbi says, “Our data is not time-series based, where older data has less importance.” Instead, all discovered data is critical and needs to be readily accessible regardless of scan time. “The Elastic team has been instrumental in collaborating with us to develop solutions that effectively address these unique requirements,” he says.

Elastic has consistently provided excellent technical support. “They are proactive in offering guidance and anticipating our needs, ensuring we stay ahead of the curve. This is crucial for a fast-paced startup like BigID where rapid innovation is essential,” says Negbi.