



SUCCESS STORY

ISRAEL

SOFTWARE AND TECHNOLOGY

ELASTIC OBSERVABILITY

Ray Security reduces client data risk by 90% with Elastic

As enterprise data scales and threats grow more sophisticated, traditional static defenses are no longer enough. In this fast-moving world, controlling data access and repelling attacks remains a costly and inefficient exercise for many businesses. Managing permissions for thousands of employees is an expensive drain on resources. Meanwhile a barrage of messages, lacking useful context, are responsible for “alert fatigue” as security teams attempt to filter genuine threats from false positives.

Established in 2024, [Ray Security](#) responds to these fundamental challenges in contemporary cybersecurity.

“It’s not just data leaks and ransomware,” says Dekel Levkovich, co-founder and CTO of Ray Security. “There’s regulatory pressure, especially in financial institutions where data audits play a central role in compliance, whether it’s NYDFS standards in the US or GDPR in Europe.”



Reduces data risk by 90%

Ray Security continuously analyzes data access patterns to automatically secure 90% of enterprise data, significantly shrinking the attack surface.



Eliminates security alert fatigue

Security professionals can focus on genuine threats rather than false positives thanks to the Elasticsearch and Ray Security Platform's enhanced detection accuracy and contextualized security messages.



Cuts storage costs

Ray Security delivers measurable ROI through lower infrastructure expenses and automated data governance by using Elastic to identify unused data for archiving.

This is where Ray Security makes the biggest difference. Its platform identifies which data will be used, and applies differentiated, automated real-time protection to reduce risk exposure to the absolute minimum. It automatically adjusts permissions so that users, applications, and systems have the access to the data they truly need, and only for as long as they need it. Its AI prediction engine uses algorithms that continuously analyze work patterns to identify what data is actively used and what remains dormant.

This enables the platform to automatically reduce the unnecessary exposure of enterprise data that is rarely or never used by up to 90% making it invisible to attackers while keeping critical files available to authorized employees.

Importantly, Ray Security functions as a data-layer security solution, independent of where threats originate. "Wherever your data resides, Ray Security provides a 'one-stop shop' for protection," says Levkovich.



With Elastic, we can put an end to alert fatigue and enable security employees to focus on their primary tasks.

Dekel Levkovich,
Co-Founder and CTO of Ray Security

Powering Ray Security's prediction engine with Elastic

Levkovich says that [Elastic Observability](#) was the first choice when it came to the core data engine at the heart of its solution. Stand-out Elastic features include support for [multi-cloud and hybrid environments](#), [vector search capabilities](#), native handling of time-series data, and efficiency when querying large data volumes.

Elastic ingests metadata and audit/access logs from Ray Security clients into a unified Elasticsearch repository. Elastic's vector search capabilities play a vital role in training models and improving detection accuracy, particularly when paired with complex time-series queries. Additionally, Ray Security integrates [Elastic with Google Cloud Vertex AI](#) to classify and contextualize data.

"Since Elastic is designed for time-series operations, we're able to build our own prediction models that layer over those mechanisms and combine with vector search," says Levkovich.

The platform is entirely cloud-hosted, with infrastructure in Frankfurt and the US to ensure compliance with local data sovereignty regulations.



Smart data security that saves money

Ray Security delivers value in three key areas. First, it reduces data risk by up to 90% by locking down unused data and minimizing the attack surface. Second, it cuts staffing requirements by automating data governance. Third, it identifies unused data for archiving or migration, yielding direct storage cost savings.

This hard ROI, measurable in reduced risk, headcount, and infrastructure costs, differentiates Ray Security from competitors that often promise only abstract efficiencies. "It means that our clients notice the difference on their invoice, not just on a report," says Levkovich.

Elastic Observability contributes further by improving detection accuracy and reducing false positives through the contextualization of security messages. Security professionals not only receive fewer alerts, but they also receive information that enables them to establish the severity of the threat. “With Elastic, we can put an end to alert fatigue and enable security teams to focus on their primary tasks,” says Levkovich.

From a compliance standpoint, locking down 90% of dormant data also reduces the volume of sensitive information exposed to regulatory scrutiny. Ray Security’s “Data Access Review” features and predictive engine provide detailed audit trails and access controls, critical for demonstrating that consumer data is governed and protected.

Support has been another game changer for Levkovich. “The Elastic account team is incredible. They provide support in the middle of the night, sometimes for issues that aren’t even on the Elastic side,” Levkovich notes. On one occasion, Elastic’s leadership stepped in after hours to resolve a marketplace availability issue, underscoring the strength of the partnership.



As organizations scale their AI adoption and data volumes grow, Elastic helps provide the visibility and governance needed to defend our clients against the worst that attackers can throw at it.

Dekel Levkovich,
Co-Founder and CTO
of Ray Security

Building for the future

With Elastic, Ray Security is ideally positioned to protect its clients into the future as AI redefines how businesses access and manage data.

“By building on Elastic’s robust architecture, Ray Security is uniquely positioned to help enterprises protect data in the years to come,” says Levkovich. “As our clients scale their AI adoption and data volumes grow, Elastic helps provide the visibility and governance needed to defend our clients against the worst that attackers can throw at it.”

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See for yourself how your business can benefit from Elastic in the Cloud, with a free 14 day trial.

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