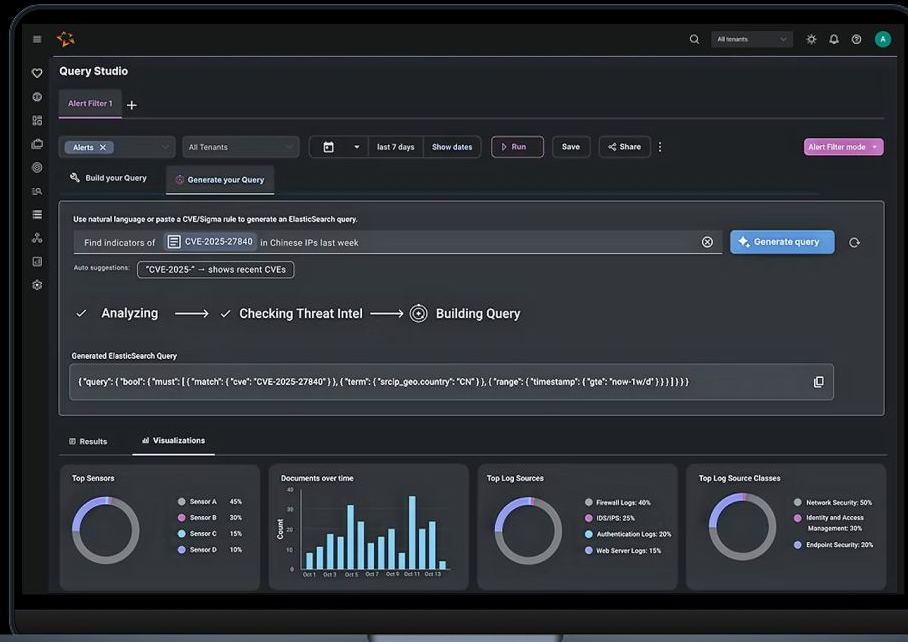


Background & Context

Query Studio: Empowering Analysts to 'Speak Security'

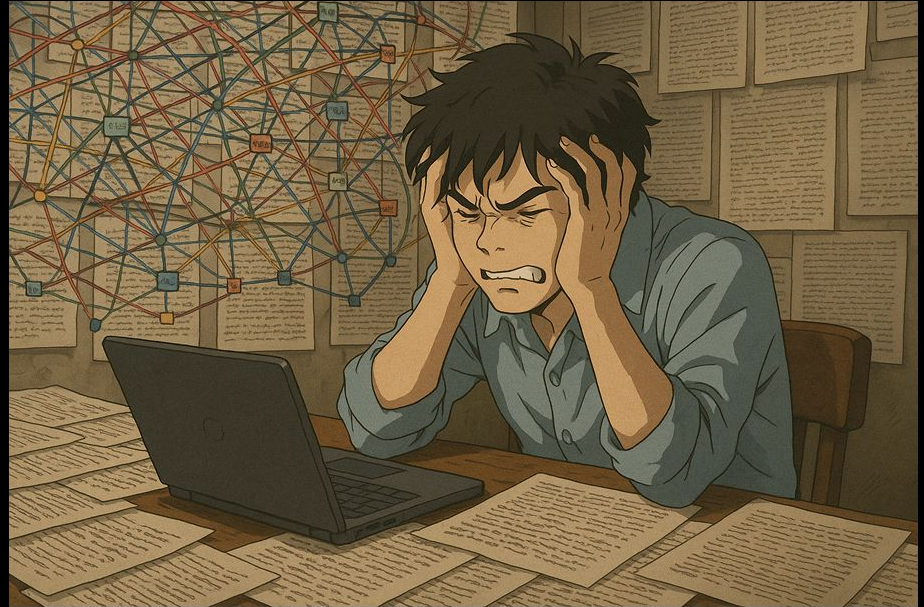


Problem

The Challenge: Bridging the Gap Between Human Intuition and Machine Data

Problem:

- Data overload hinders threat identification.
- Complex tools slow investigations.
- Analysts need natural language queries.



ChatGPT 4o Prompt: A revised visual representation of data overload (e.g., a chaotic network diagram, a wall of text, a frustrated analyst). Adult Anime or full length Japanese animation movie style









Research & Insights

Understanding Analyst Needs: From Data to Decisions

Research & Insights:

- Analysts spend too much time writing/ debugging queries.
- Visualizing data is crucial for fast pattern recognition.
- Seamless pivoting between data sets is essential.

Analyst User Journey Map

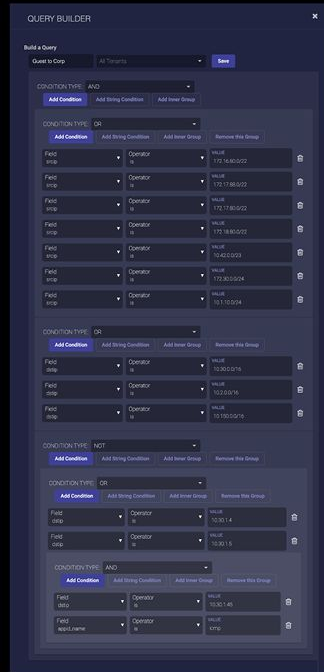
Stage	Analyst Actions	Emotions/Thoughts	Pain Points
Receive Alerts		 Overwhelmed, frustrated	Hundreds of alerts, many irrelevant or false positives. Alert fatigue, risk of missing real threats
↓			
Triage		 Stressed, skeptical	No automated prioritization; must sift through noise to find actionable items
↓			
Investigate		 Fatigued, distracted	Repetitive investigation of non-critical or duplicate alerts Analyst burnout, decreased efficiency
↓			
Escalate/ Respond		 Hesitant, cautious	Risk of missing or delaying response to genuine threats due to alert overload Increased security risk, delayed incident response

Approach & Key Decisions

Empowering Analysts with Intuitive Tools

- Redesigned UI with a new name: Query Studio (formerly Queries and Filter Builder)
- Added optional Natural Language Query input
- Enhanced alert filters with automated score adjustments

OLD UI



NEW UI



~~Query & Filter Builder~~
NEW!
Query Studio

Solution: Natural Language to Queries

Making Queries Intuitive

Enable natural language search.

Build your Query

Generate your Query

Use natural language or paste a CVE/Sigma rule to generate an ElasticSearch query.

Find indicators of

CVE-2025-27840

 in Chinese IPs last week

Generate query

Auto suggestions: "CVE-2025-*" → shows recent CVEs

✓ Analyzing → ✓ Checking Threat Intel → Building Query

Generated ElasticSearch Query

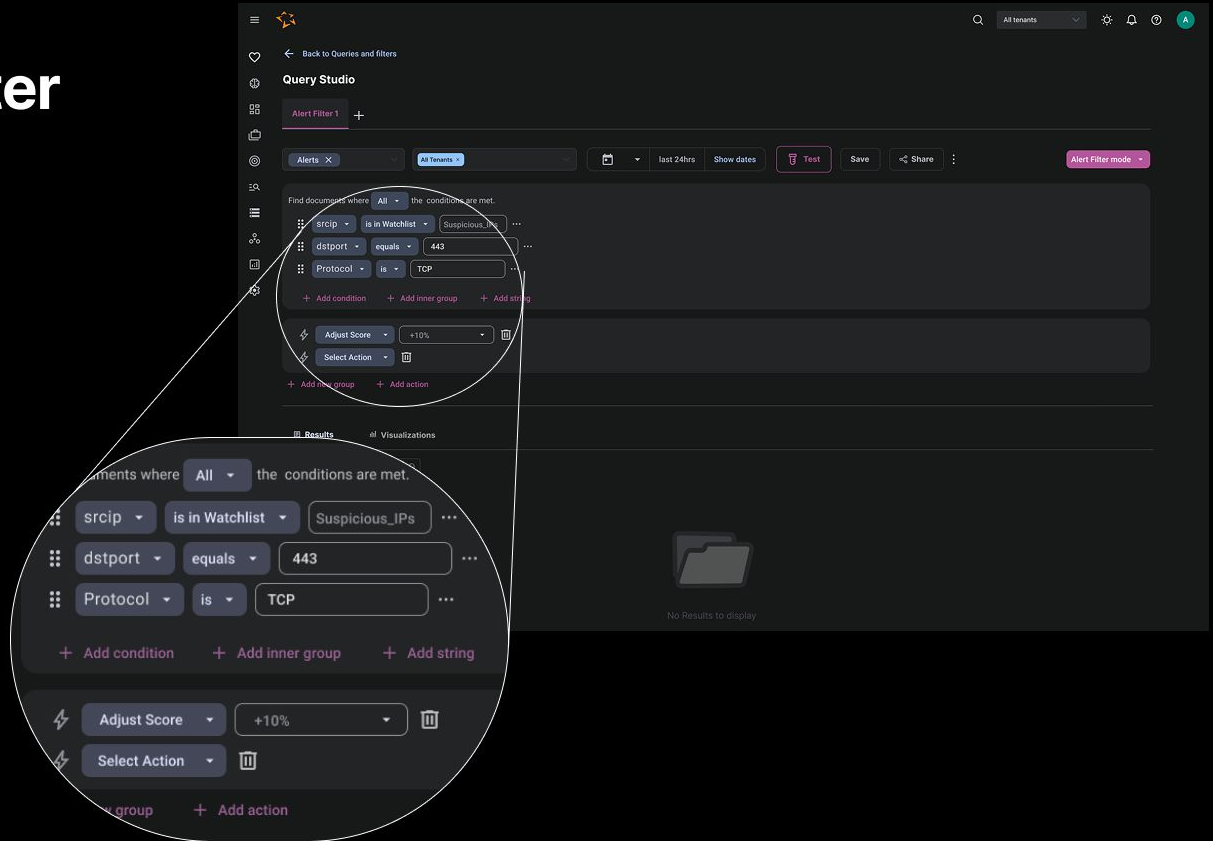
```
{ "query": { "bool": { "must": [ { "match": { "cve": "CVE-2025-27840" } }, { "term": { "srcip_geo.country": "CN" } }, { "range": { "timestamp": { "gte": "now-1w/d" } } } ] } } }
```

Solution: Alert Filter Actions

Enhanced Alert Filter Actions

Streamlining Alert Management

- Automatically suppress irrelevant alerts.
- Reduce alert fatigue and focus on critical events.
- Showcase the workflow of creating and applying filters, including automating alert score adjustments.

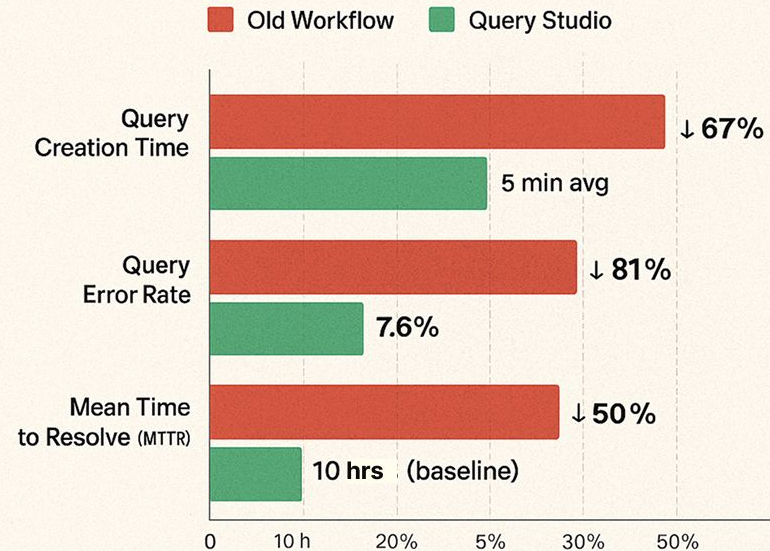


Solution: Key Features

Key Features: Designed for Impact

The new UI transformed a complex, error-prone process into a streamlined, powerful, and accessible tool—enabling faster, more accurate threat detection and response. The redesign led to:

Query Studio: Driving Efficiency Across the Board



Query Studio delivers up to 67% faster query creation, 81% fewer query errors, and cuts resolution time in half.

Lessons Learned and Future Iterations

Lessons Learned: Continuous Improvement

Key lessons:

- The power of natural language in complex domains.
- The importance of balancing power with usability.
- The importance of effective alert management, including flexible alert scoring.

Future Iterations:

- Deeper AI integration to automate more tasks.
- More contextual, guided investigation workflows.

