Welcome

Introduction To SOC/SIEM

What is SOC/SIEM?

- SOC(Security Operations Center) is a centralized team that monitors, detects, and responds to cybersecurity threats in an organization.

- SIEM(Security Information and Event Management) is a tool thatcollects, analyzes, and correlates security logs to detect and respond to threats.

Introduction: The ELK Stack

- The **ELK Stack** (Elasticsearch, Logstash, and Kibana) is a powerful open-source log management and analytics solution used for real-time data monitoring and visualization.

- **Elasticsearch** is a distributed search and analytics engine that indexes and retrieves log data efficiently, while **Logstash** processes and ingests logs from various sources, transforming and forwarding them to Elasticsearch.

- **Kibana** provides a user-friendly interface for visualizing data through dashboards and graphs, making it easier to analyze security events, system performance, and application logs. Often used in **SIEM** solutions and Security Operations Centers (SOC), ELK enables organizations to detect anomalies, track incidents, and improve operational efficiency by centralizing log data analysis.

Introduction: Metadata

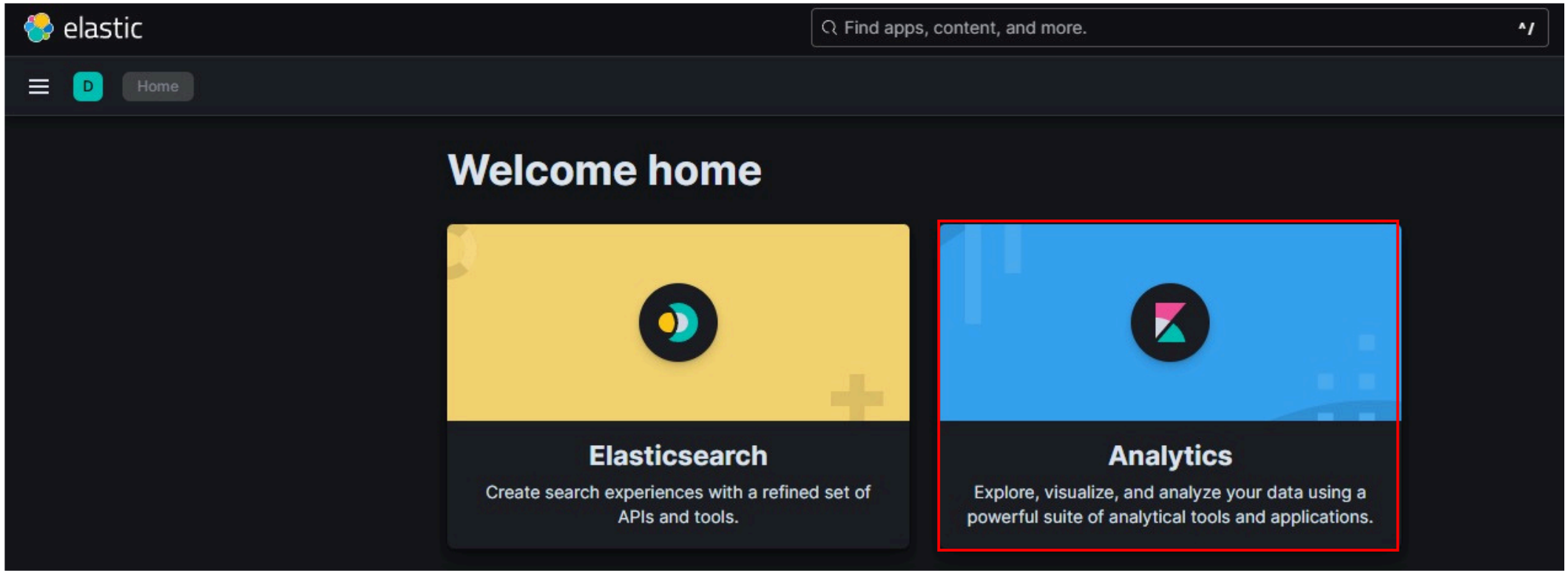
- Metadata is data that describes other data, providing context such as timestamps, source IPs, file types, or user activity. Different ingestors (such as Logstash, Fluentd, or Splunk) may generate different metadata for the same information because they process and enrich logs uniquely.

- For example, if a firewall log is ingested by both Logstash and Splunk, Logstash might tag it with fields like **logsource:firewall1** and **@timestamp**, while Splunk could label it as **host=firewall1** and **index_time**, leading to variations in how the same log is stored and interpreted.

- These differences can impact SIEM correlation, searchability, and analysis, requiring normalization to ensure consistency across platforms.

Tips

Analytics > Discover should be one of your first steps!



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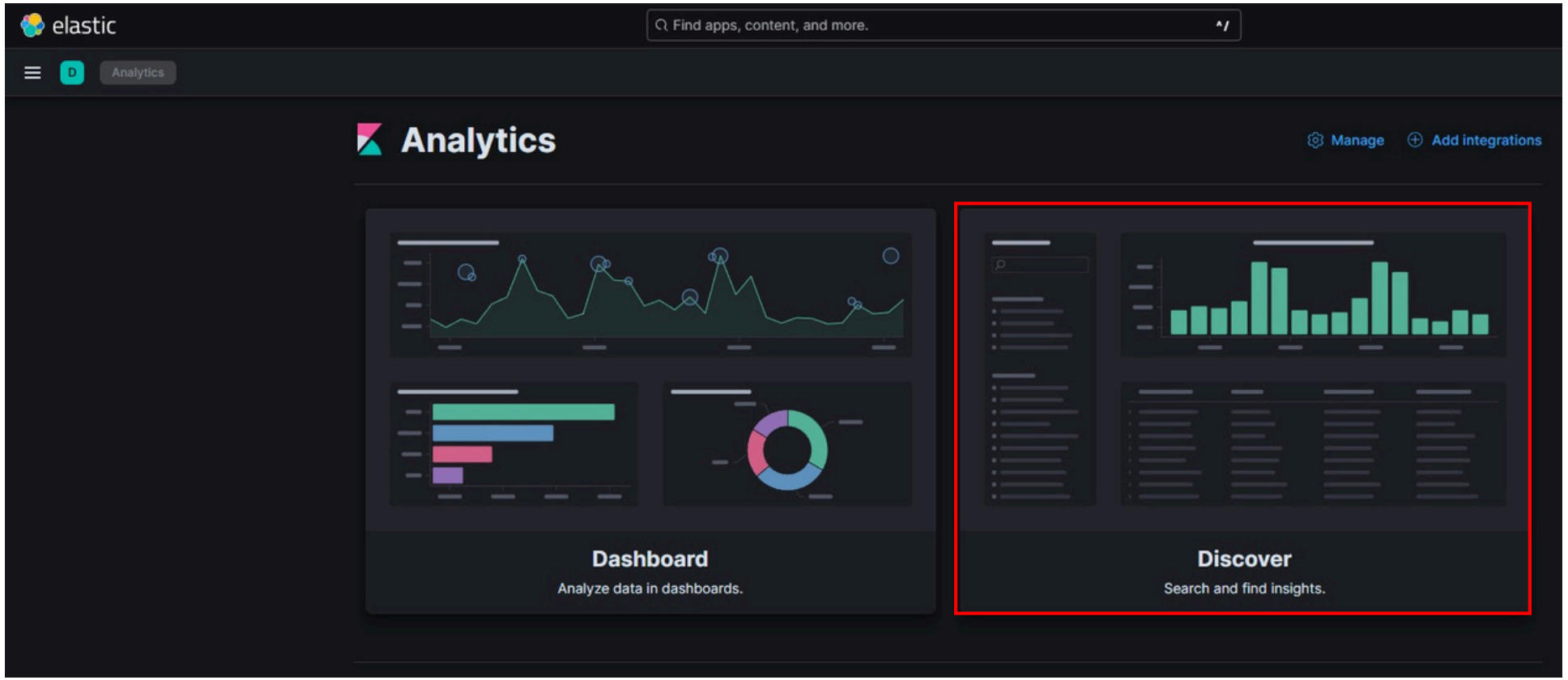
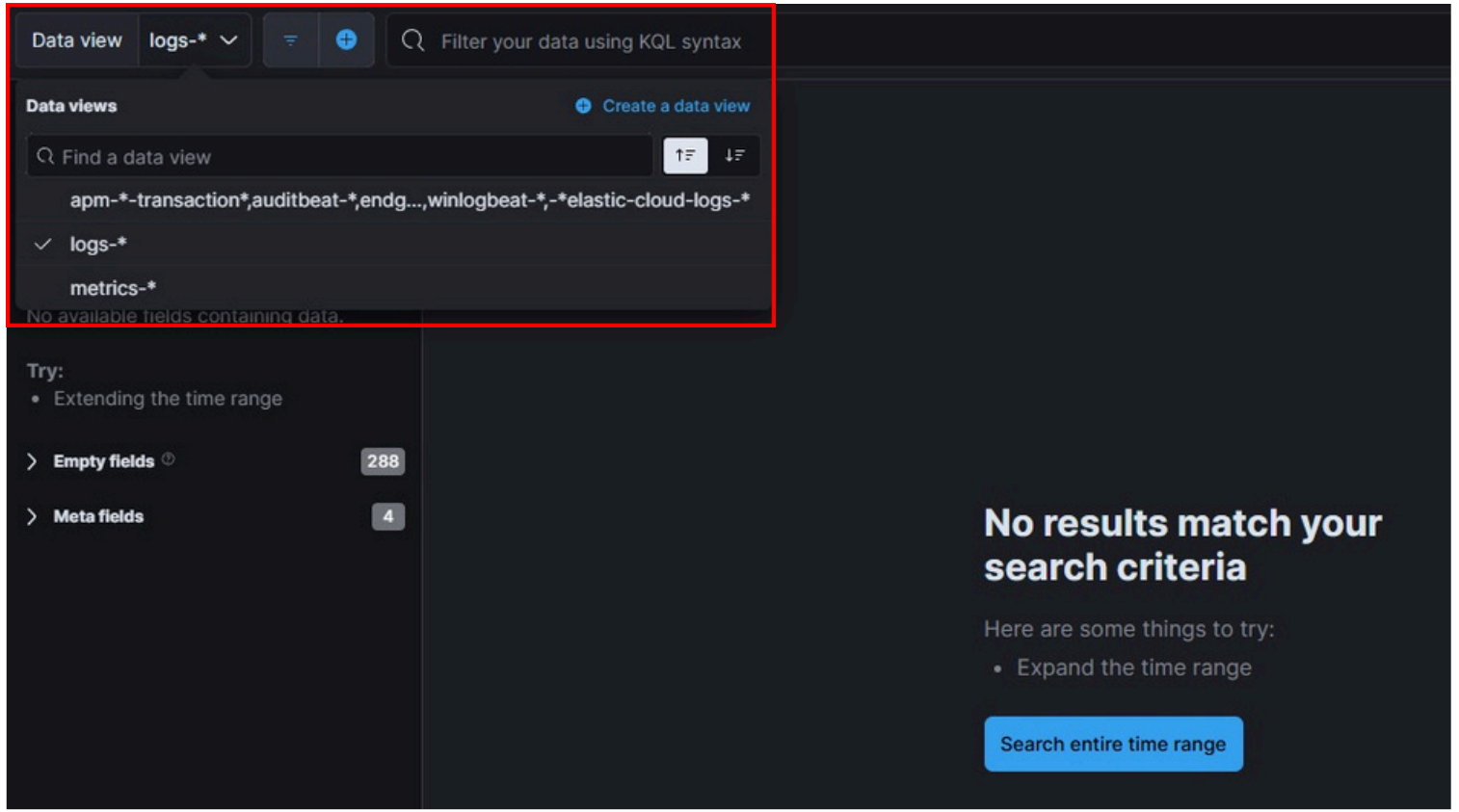


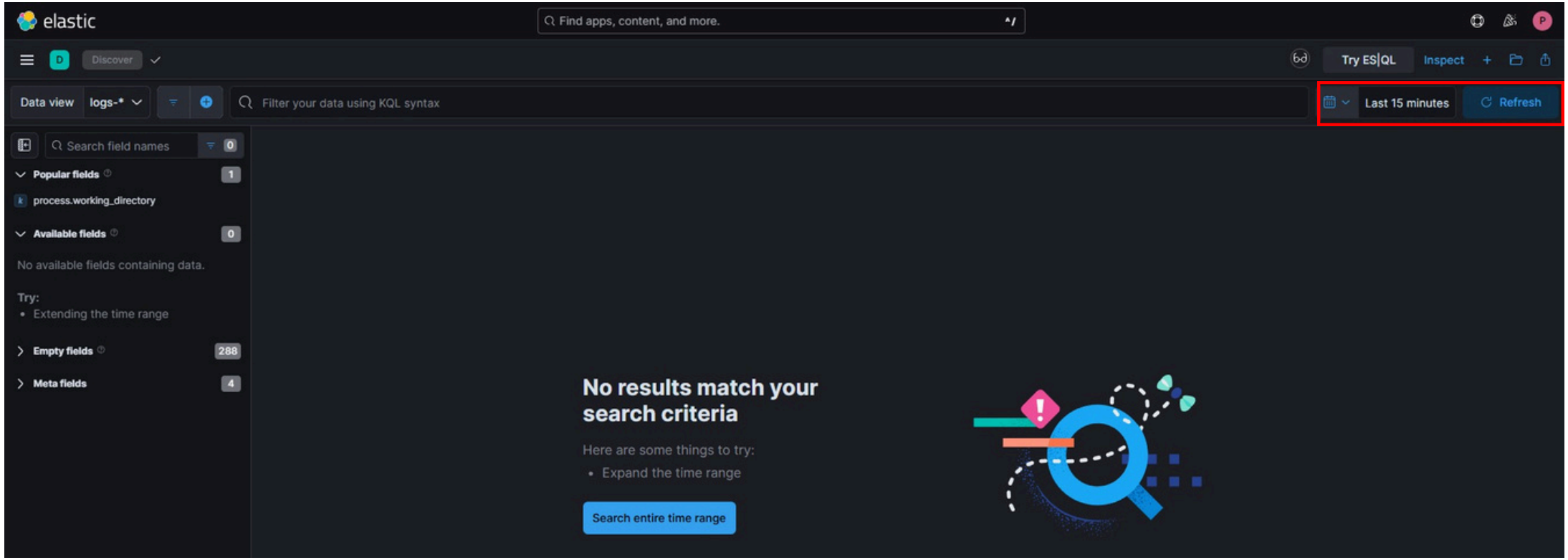
Tips

The Data View determines what type of logs will be displayed for you!



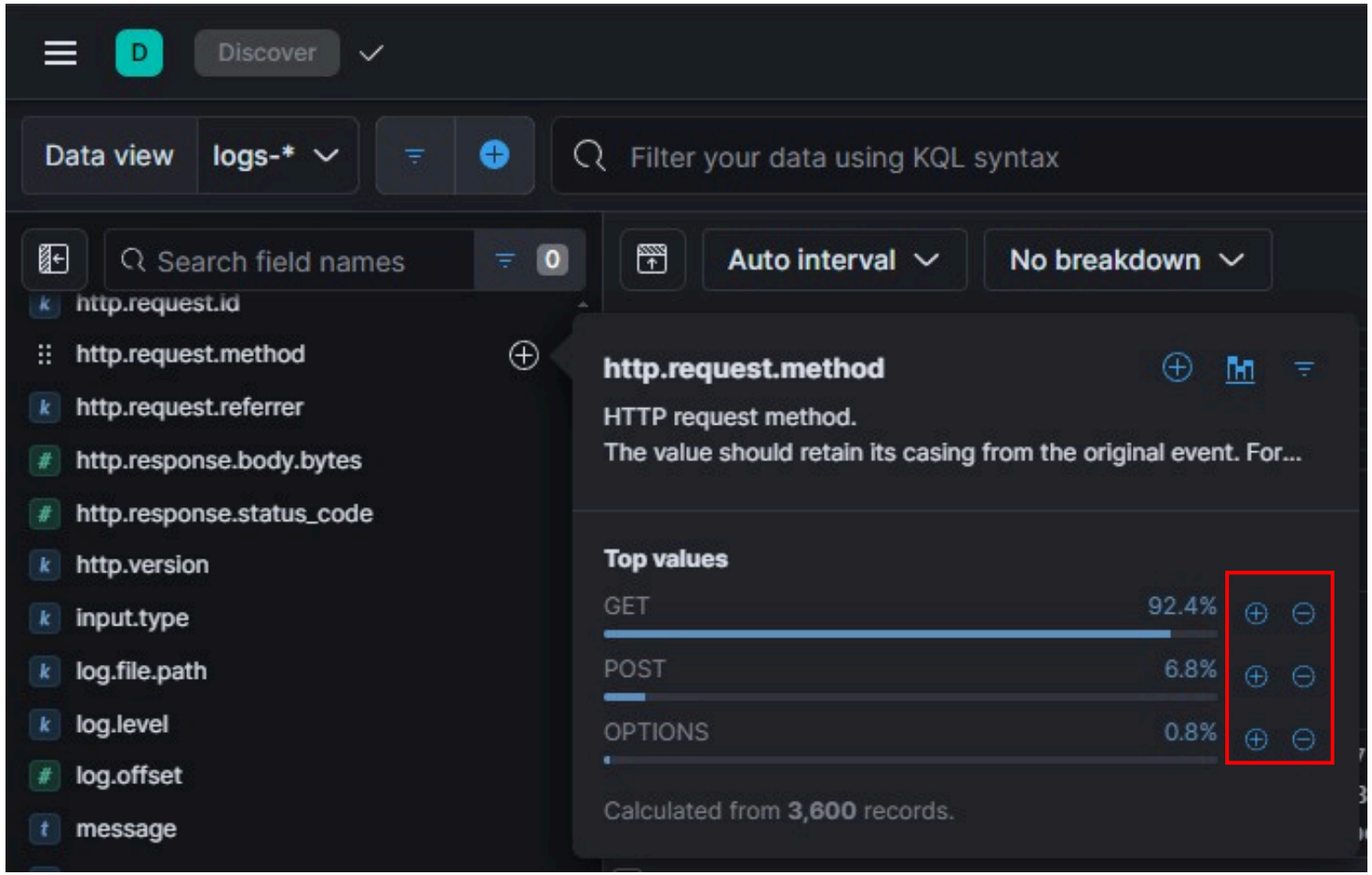
Tips

Timestamp is important!



Tips

Filters are very important!



Here are the domain and credentials for the Threat Hunting challenges.

Have fun! 😊

Domain: https://cyberblitz.ddns.net/

Username: cyberblitz2025

Password: cyberblitz2025!

Sample Flag Format: CyberBlitz2025{flag}

CyberBlitz2025{IHAVEREADTHISELKDOCUMENTATION}