
AWS
re:Invent
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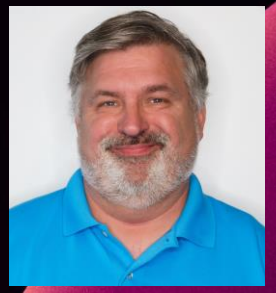
SEC235-NEW

Accelerate security analytics across hybrid environments with AWS

Dora Karali
(she/her)
Principal PM
Security Services
AWS

Abhi Khanna
(he/him)
Principal PM
Amazon OpenSearch Service
AWS



Ross Warren
(he/him)
Product Solution Architect
Security Lake
AWS

Agenda

01 Challenges with security data analysis

02 New! Amazon OpenSearch Service zero-ETL integration with Security Lake - benefits

03 Amazon Security Lake and Amazon OpenSearch Service overview

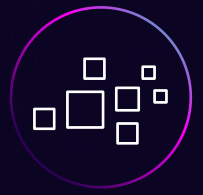
04 Zero-ETL integration features

05 Demo

Challenges with security data analysis

Collecting and managing growing volumes of data from different sources and locations

Balancing cost-efficient data access with data visibility



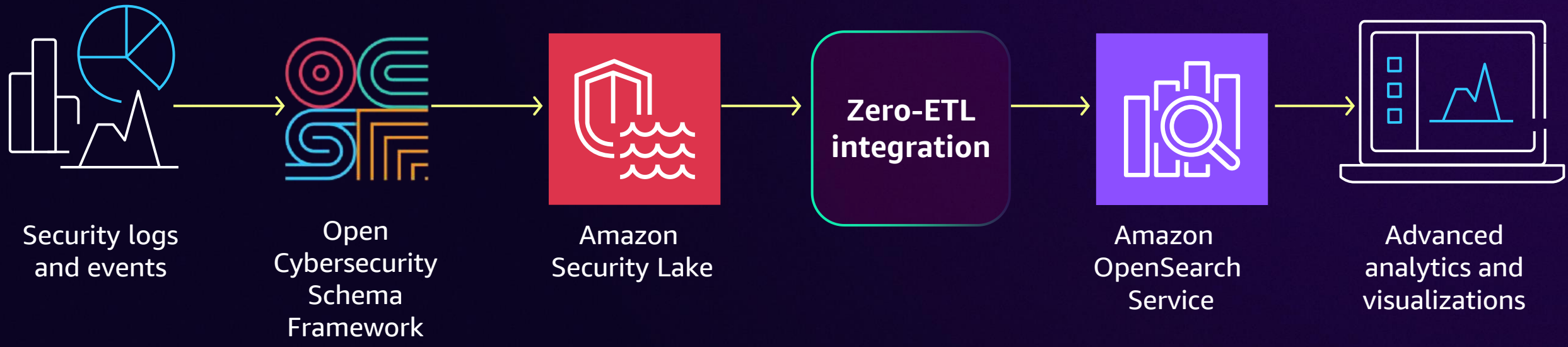
Logs and alerts in varying formats

Training and usage of multiple analysis tools

Complexity creating and managing data pipelines

Achieving quick mean time to resolution for security issues

Amazon OpenSearch Service zero-ETL integration with Amazon Security Lake



Gain immediate security insights with powerful in-place search, on-demand indexing, and pre-built analytics, eliminating complex data pipelines

Benefits

Security Lake simplifies centralization of data across AWS sources, accounts and regions, and 3rd-party data

Full visibility into your Security Lake data with in-place queries in Amazon OpenSearch; reduce ingested data and costs using on-demand indexing

Security Lake normalizes data in OCSF schema and prepares data for efficient storage and query access

Single tool for real-time and historical data analysis; pre-built queries and dashboards to bring you up and running quickly

Directly access your Security Lake data from Amazon OpenSearch with no data pipeline configurations

Less time on data management so you can focus on resolving security issues

Amazon Security Lake

Automatically centralize security data into a purpose-built data lake

Centralize data automatically from cloud, on-premises, and custom security sources across Regions

Optimize and manage security data for more efficient storage and query performance

Analyze using your preferred analytics tools while retaining control and ownership of your security data

Normalize data to an open standard to easily share and use with multiple analytics tools

Open Cybersecurity Schema Framework (OCSF)

AN OPEN STANDARD THAT CAN BE ADOPTED BY ANYONE TO SIMPLIFY SECURITY DATA NORMALIZATION

NEW! Now part of the Linux Foundation

Open source project to deliver a simplified and vendor-agnostic taxonomy for security data

Speed data ingestion and analysis without the time-consuming, up-front normalization tasks

Combine data from OCSF-compliant sources to break down data silos that slow security teams

Over 200 participating organizations across security ISVs, government, education, and enterprise, with many more using OCSF

aws

Amazon OpenSearch Service

Advanced analytical capabilities to query and analyze security data with powerful visualization and monitoring capabilities

Search: Query at scale to find relevant security events within seconds

Analytics: Securely, easily, and efficiently visualize and analyze your security data

Lower incident response time: Quickly and easily connect all of your data for faster queries and better insights

Alerts: Send security alerts to preconfigured destinations using automated workflows

Zero-ETL with Security Lake features

Quick setup

In-place querying of Security Lake data

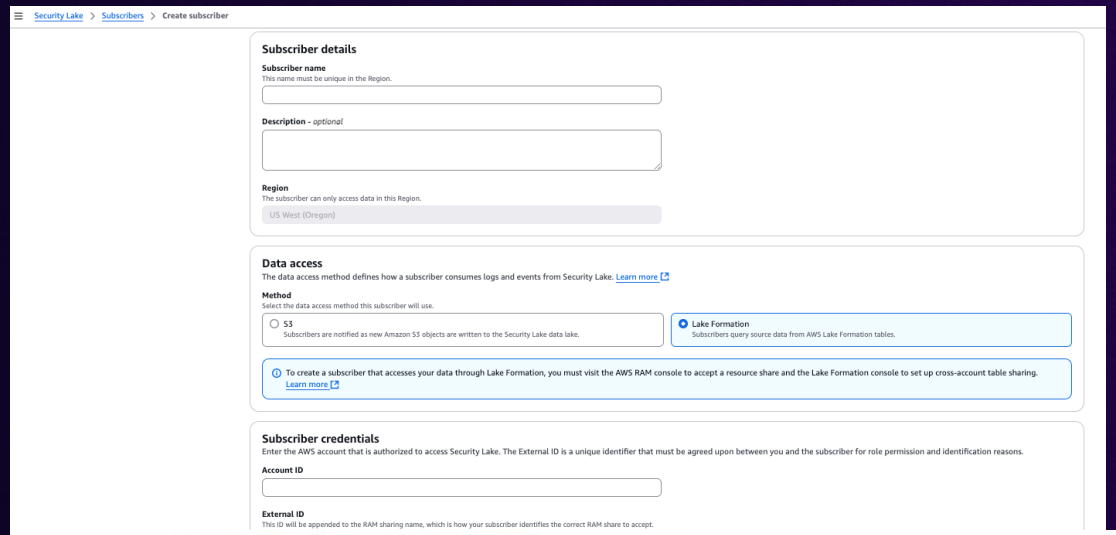
On-demand indexing

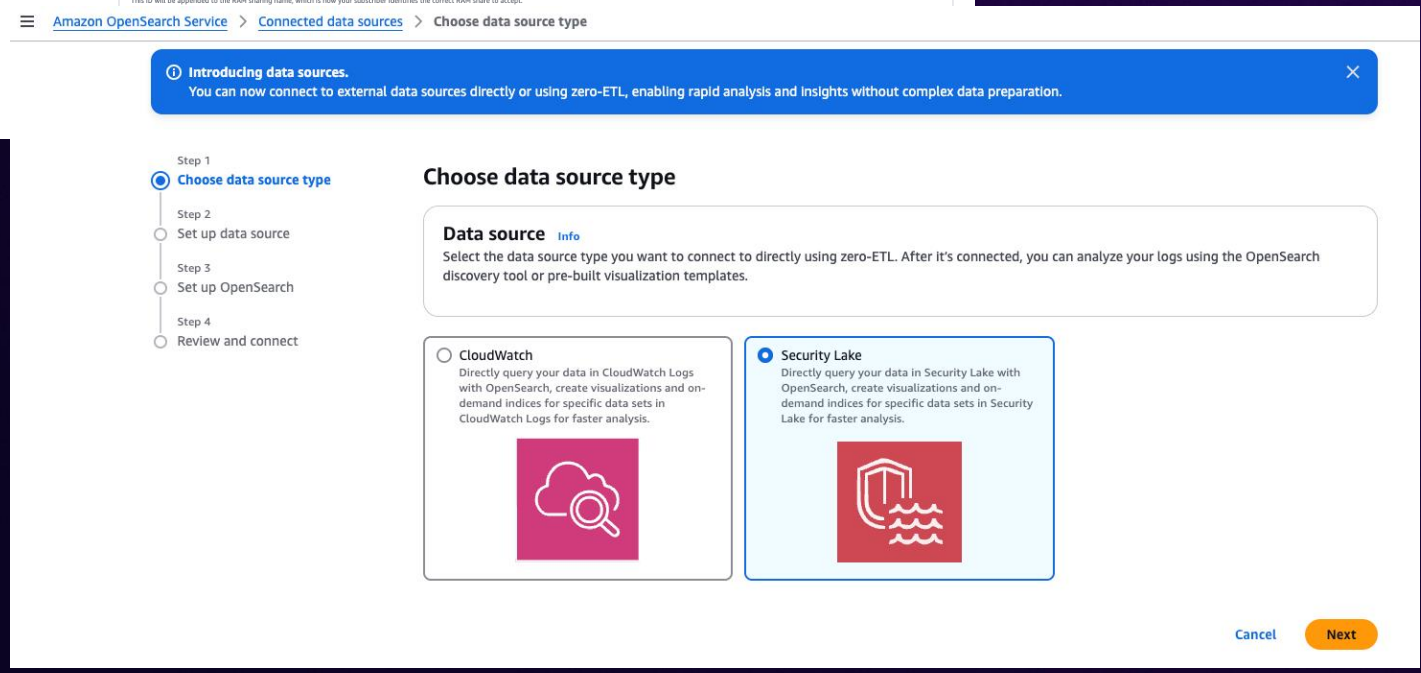
Pre-built queries and dashboards

Simple setup

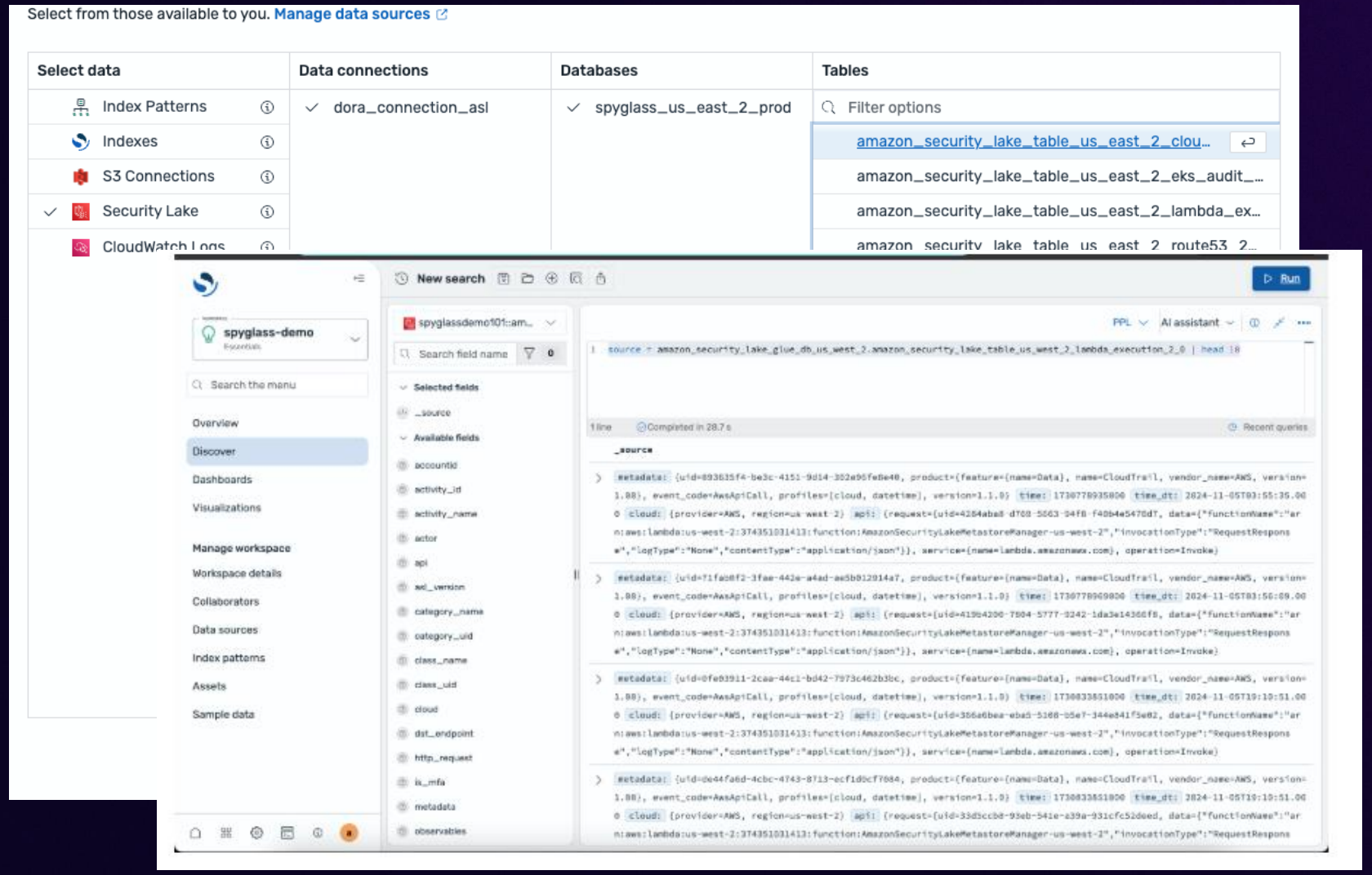
1. Create a **subscriber** in Amazon Security Lake
2. Create a **data source for Security Lake** in Amazon OpenSearch Service

Automatically create Amazon OpenSearch Serverless collection and a Dashboards application





In-place querying of Security Lake data



Directly query data in Security Lake without ingesting them in OpenSearch

Faster **query times** thanks to Apache Iceberg

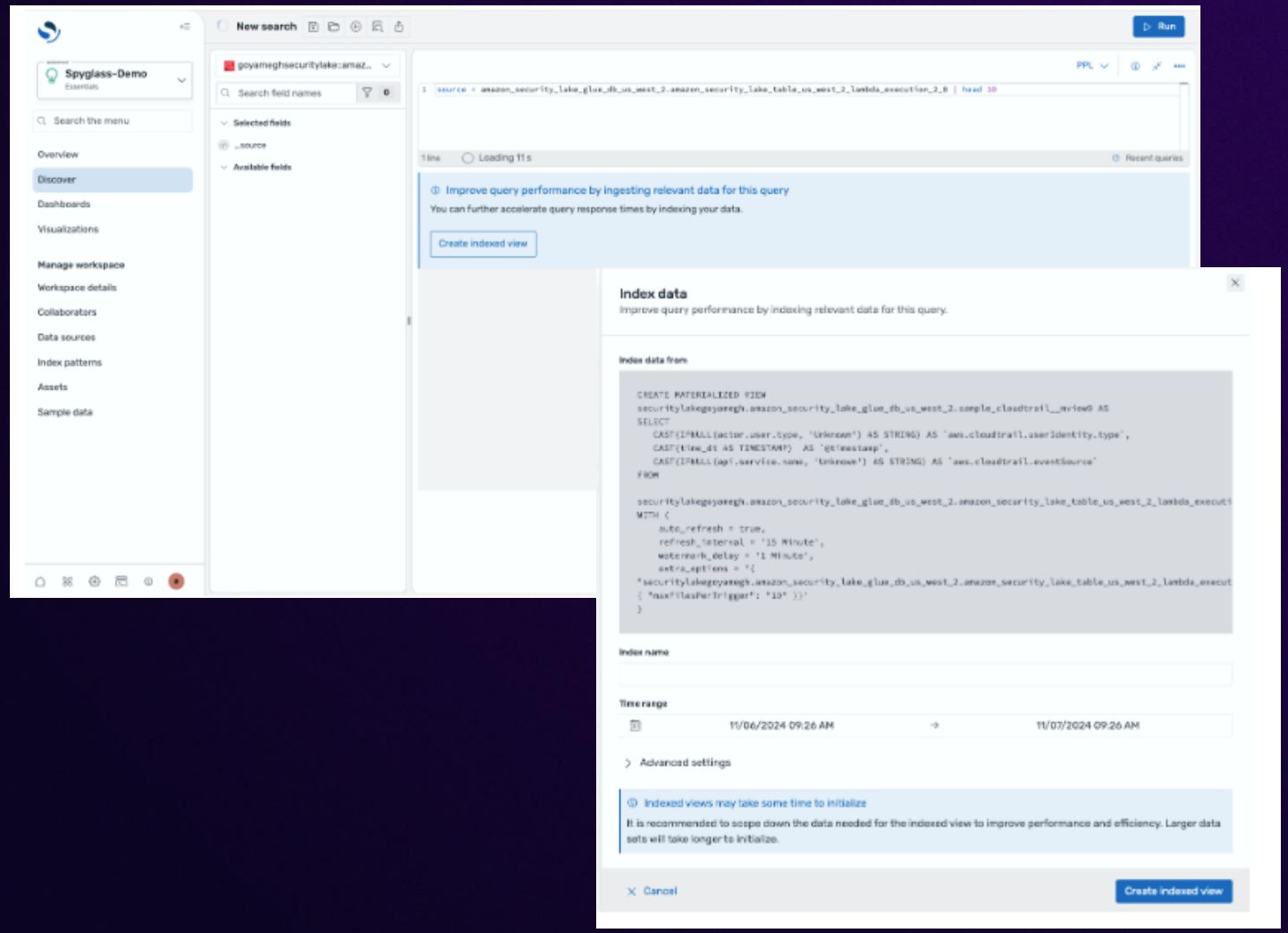
Use **SQL or PPL** to query your data across tables using OCSF schema

On-demand indexing

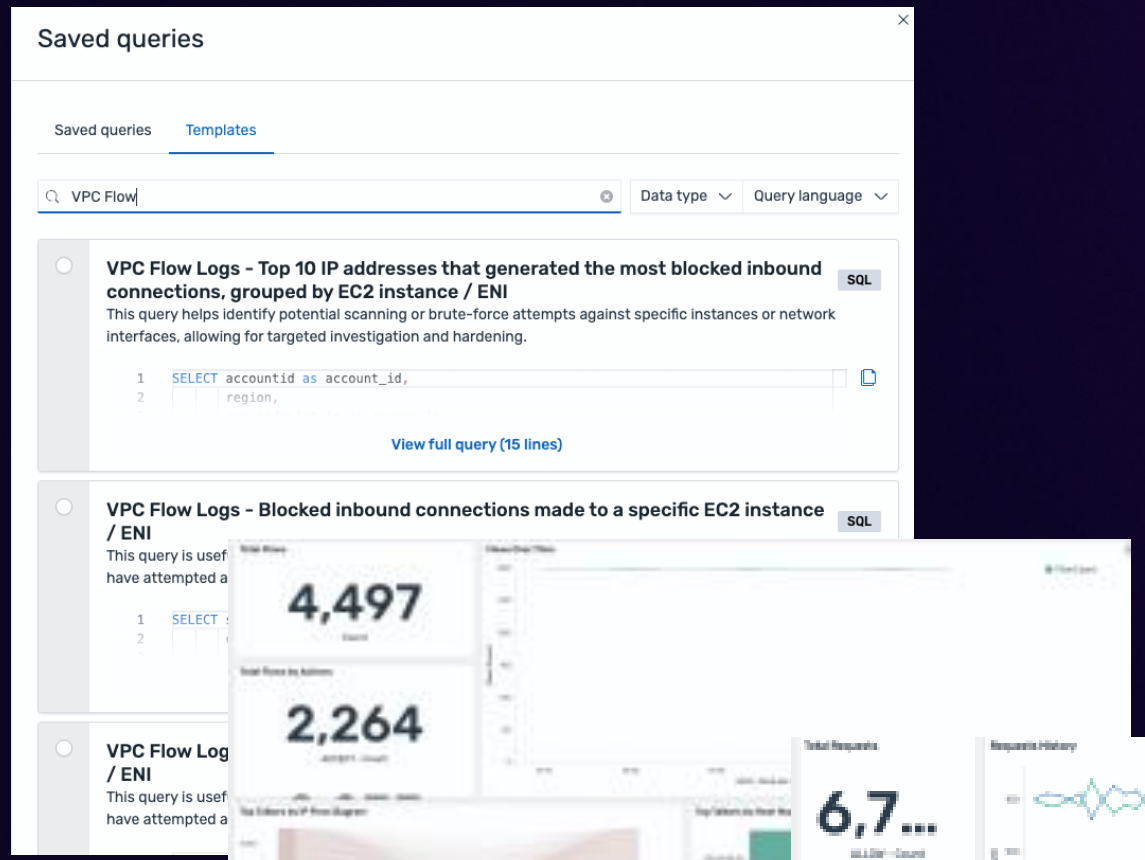
Single-click indexing of your query results from Discover in OpenSearch Dashboards

Indexed views for:

1. Faster querying to support security investigations
2. Visualizations to support security insights



Pre-built Queries and Dashboards



Use **pre-built** queries and dashboards in OCSF schema for faster insights and on-boarding

200+ pre-built queries

Dashboards for **VPC Flow** Logs, **WAF** logs and **AWS CloudTrail** Management Events

Managing security data across a complex environment posed challenges. Amazon Security Lake has enabled data sovereignty, improved data visibility, and allowed direct querying without moving data, while ensuring compliance. This solution is expected to expedite incident response and reduce costs, thereby enhancing the protection of clients' data.

Derek Bush

Vice President of Cloud Security, Infor

Demo

Amazon OpenSearch service zero-ETL with Security Lake for:

Simplified Security Data Analytics

Eliminate data duplication and complex ETL processes

Zero-ETL integration allows direct querying of Security Lake data in OpenSearch

Comprehensive Security Visibility

Unified analysis of diverse security data sources

Query and visualize data from AWS using OCSF schema

Accelerated Security Investigations

Faster incident response

Pre-built OCSF-compliant queries, dashboards, and on-demand data acceleration

Optimized Performance and Costs

Balance between query speed and storage efficiency

Flexible options for direct queries, selective indexing, and materialized views

Learn more

What's New blog

Try Security Lake for 15 days at no cost

Learn more about Amazon OpenSearch Serverless

Learn more about Amazon OpenSearch Service Integrations

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Dora Karali
linkedin.com/in/dorakarali/

Abhi Khanna
https://www.linkedin.com/in/abhinavkhanna2016

Ross Warren
linkedin.com/in/rossw7/