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Security Attribution Using Neo4j

Enabling AI Context Through Graph Visibility and Ownership

07/23/2026

Chad Cloes

INTUIT

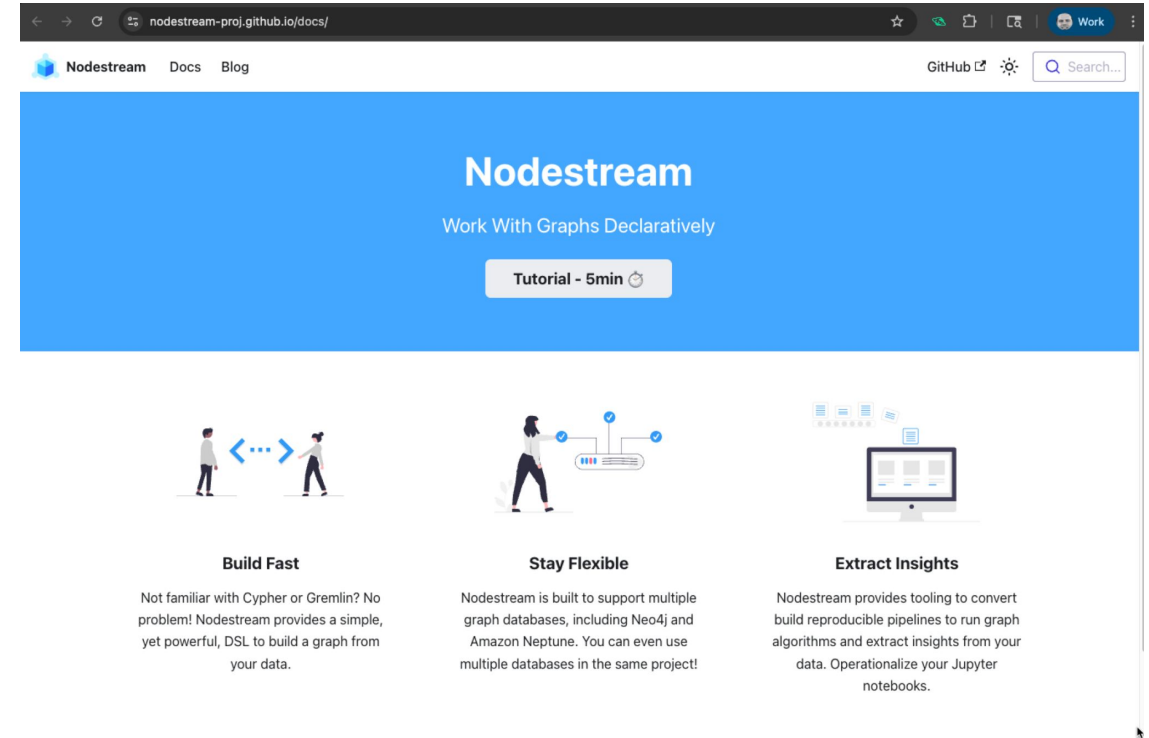


Security Knowledge and
Insights Platform



INTUIT

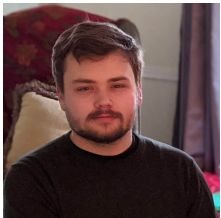
<https://github.com/intuit>



NodeStream

<https://github.com/nodestream-proj/>

The SKIP Team



Lead by



And the Bidoof Brigade



Why did we build it?

LinkedIn

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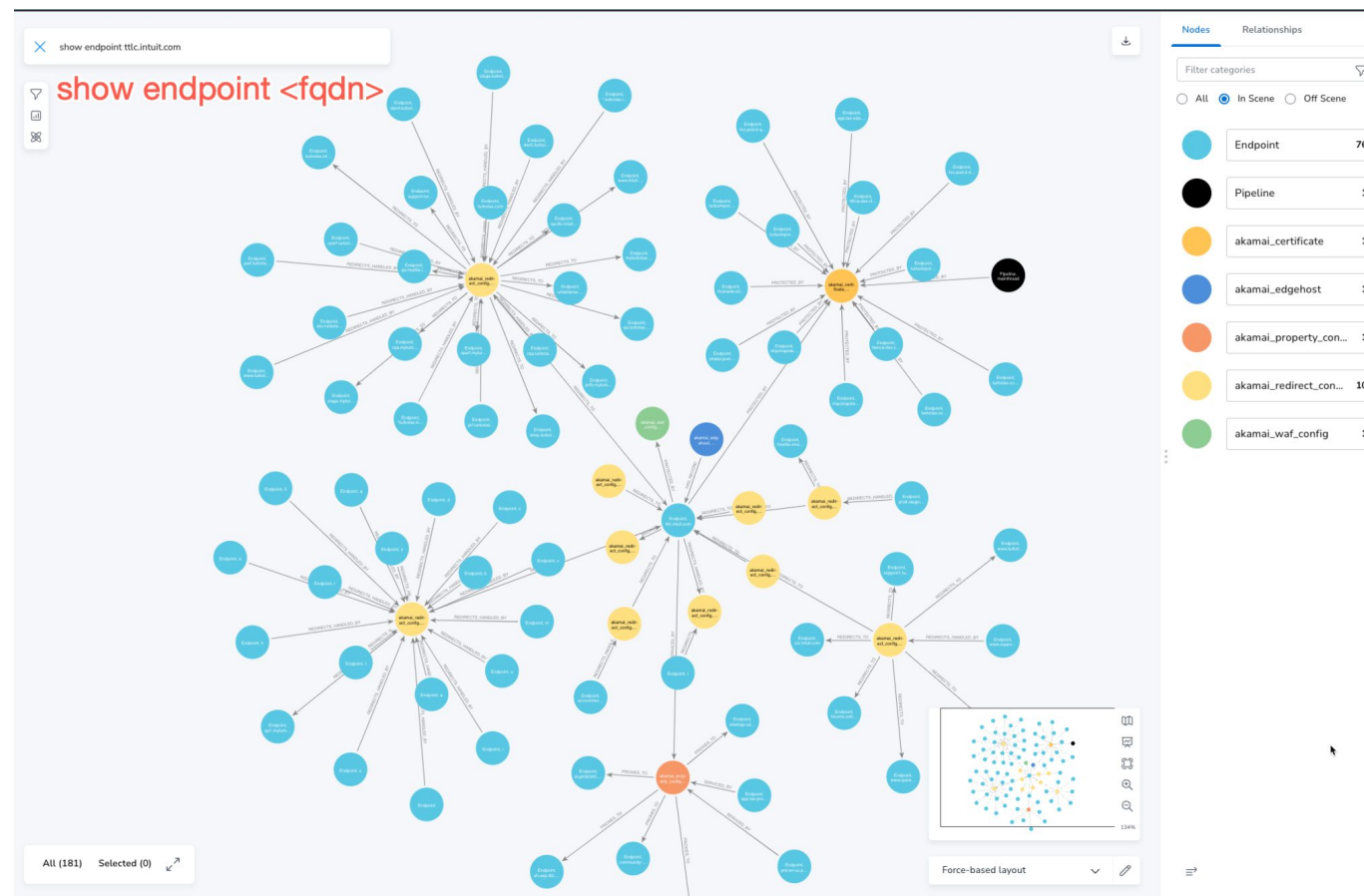
Neo4j + Akamai - Mapping your External attack surface

Chad Cloes
Intuit
Published Nov 9, 2022

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TL;DR: This describes an approach to map out and visualize software and infrastructure. Specifically Akamai Endpoints (aka FQDNs) and how they relate to vulnerabilities (eg. the OpenSSL vulnerability announced last week). Click here for code snippets on how to do this: <https://github.com/ccloes/neo4j-akamai>

We have been using Akamai for many many years, but some of the challenges have been around our inability to “map” our infrastructure and how it is routed through Akamai. It is not uncommon for us to have hundreds of Akamai property configs each with thousands of lines of config and thousands of endpoints. This can make finding and mapping the route our traffic can take through Akamai very challenging, manual, and time consuming. We can now simply visualize that using Neo4j and Bloom.

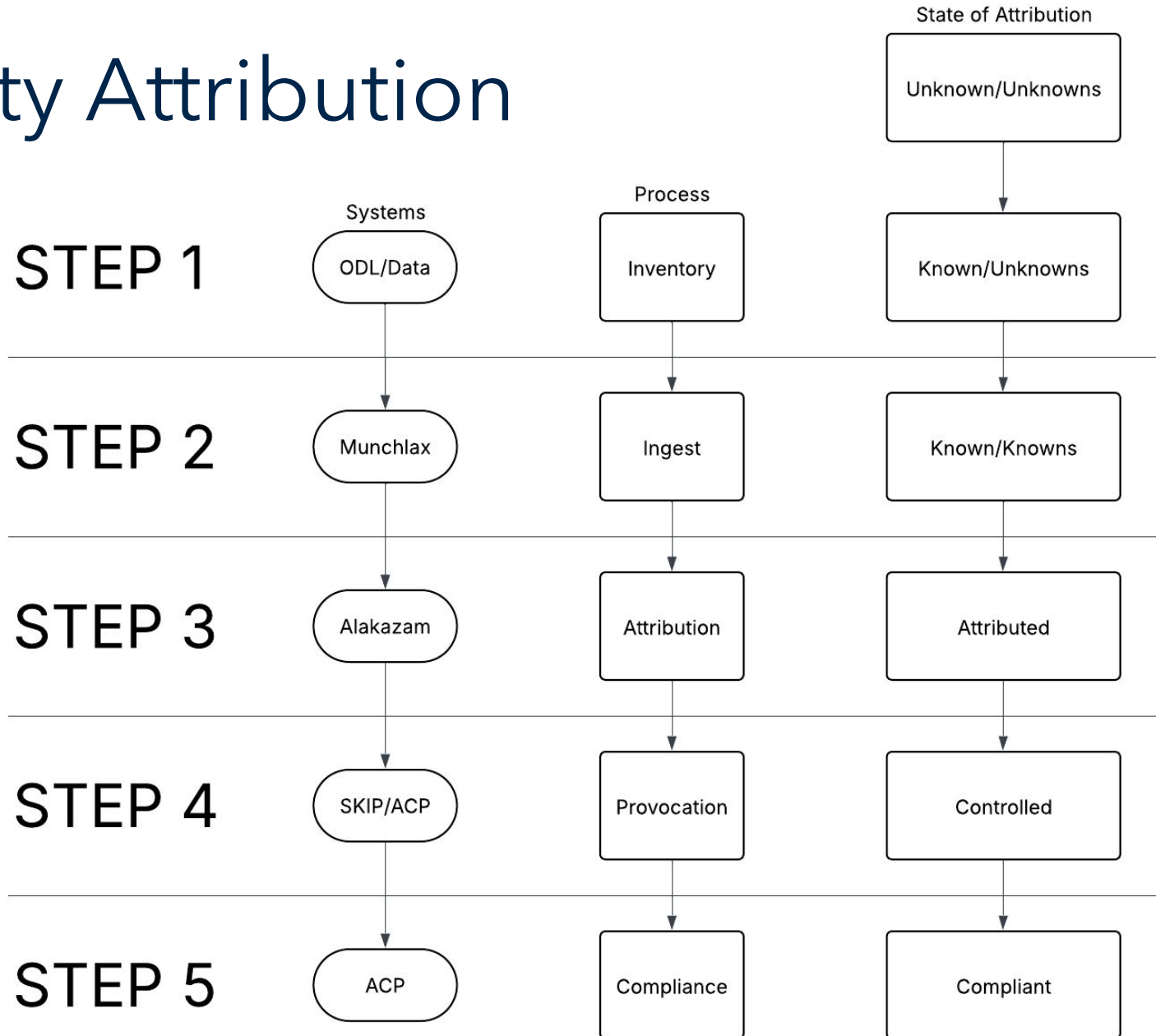


https://www.linkedin.com/pulse/neo4j-akamai-mapping-your-external-attack-surface-chad-cloes?trk=public_post

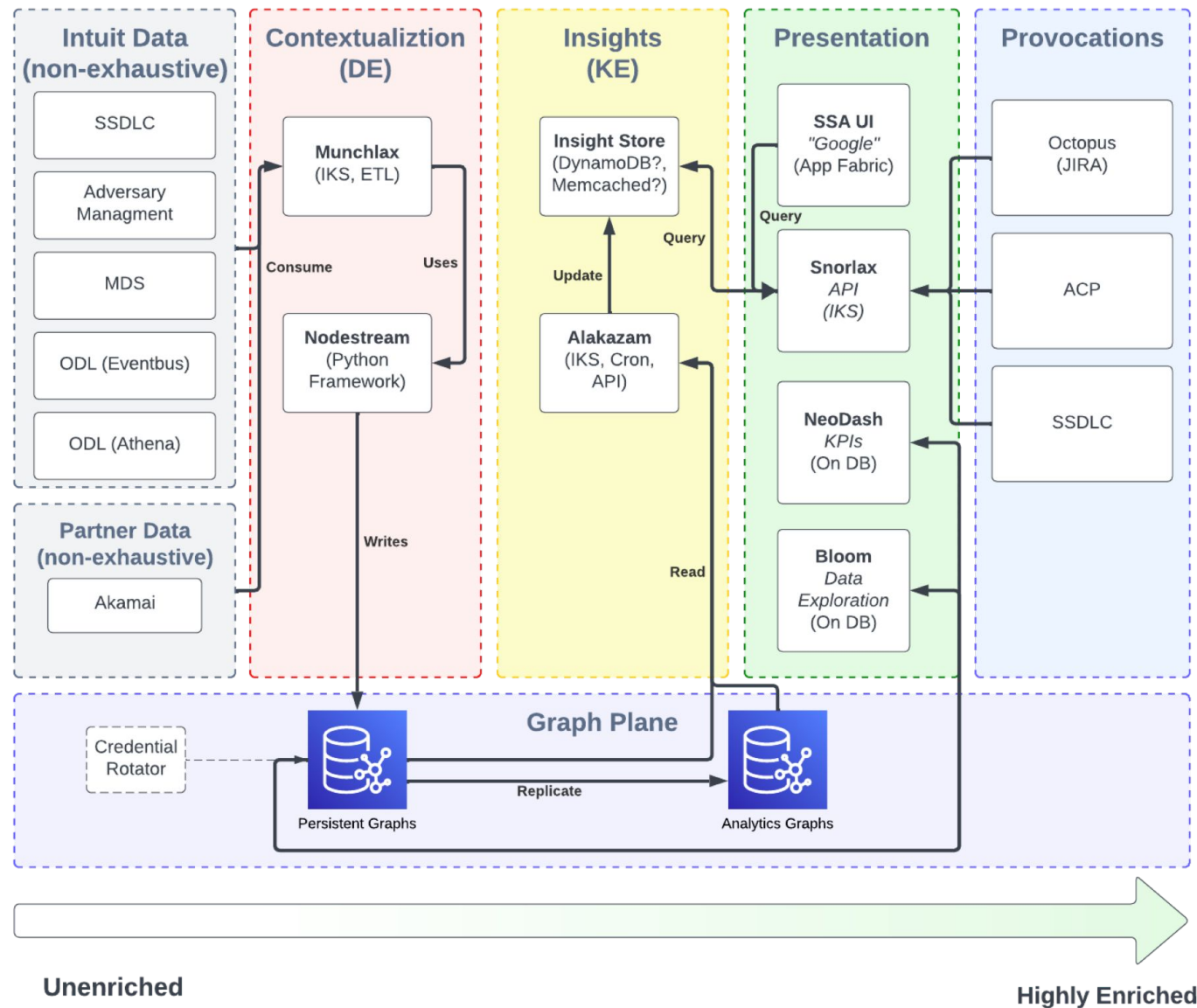
What is Security Attribution?

- **Security Attribution** simply is who owns a resource
- **Security Attribution** required to drive down MTTR
- **Security Attribution** we believe is a prerequisite of **AI growth**

Security Attribution

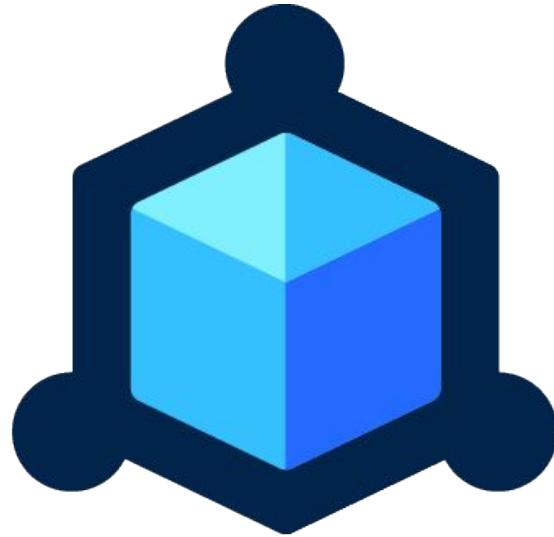


Security Knowledge & Insights Platform



Nodestream - an Open Source Framework

Structured
Data



NodeStream

<https://github.com/nodestream-proj>



Key Advantages for Nodestream

- Open source (including vendor supported plugins)
- Scalable and extensible platform
- Declarative low/no code ingest pipelines
- Attribution of all data sources into graph (each node, relationship has lineage)
- Index and schema migration management
- Schema aware ingestion
- GraphQL schema export
- Checkpointing/Resume
- Support for common ingestion patterns (S3, SQS, CSV, JSON, Parquet, etc)



NodeStream

<https://nodestream-proj.github.io/docs/>

Enabling AI contextualization for Intuit

The screenshot displays a web browser window with the URL `skip.intuit.com/skip-ui-plugin/skipplugin?tab=SKIP+Assistant+%28GenAI%29&query=Give+me+a+detailed+report+on+a...`. The browser tabs include 'Recent - Google Drive', 'Security Attribution Using Ne...', and 'Self-Service Attribution'. The page features a sidebar with the 'Self-Service Attribution' logo and navigation links for 'Explore', 'GitHub Reporting', and 'Settings'. The main content area is titled 'Exploration' and includes tabs for 'Simple Search', 'AI Assisted Search NEW', and 'Advanced Search PREVIEW'. A user input box at the top right contains the text 'Give me a detailed report on assets at intuit.' and a green user icon. Below this, two AI-generated responses are shown, each with a blue user icon. The first response describes a high-level breakdown of assets by type, lifecycle, visibility, tier, and archived status, with expandable sections for 'Query' and 'Results (1216)'. The second response provides overall summary statistics across all assets, with an expanded 'Query' section showing a SQL-like query:

```
MATCH (a:Asset) RETURN COUNT(DISTINCT a.asset_type) as distinct_types, COUNT(a) as total_assets, SUM(CASE WHEN a.archived = true THEN 1 ELSE 0 END) as archived_count, SUM(CASE WHEN a.archived = false THEN 1 ELSE 0 END) as active_count, SUM(CASE WHEN a.lifecycle = 'Retired' THEN 1 ELSE 0 END) as retired, SUM(CASE WHEN a.lifecycle = 'Development' THEN 1 ELSE 0 END) as in_development, SUM(CASE WHEN a.lifecycle = 'Generally Available' THEN 1 ELSE 0 END) as generally_available
```

, and a 'Results (1)' section.

Questions?