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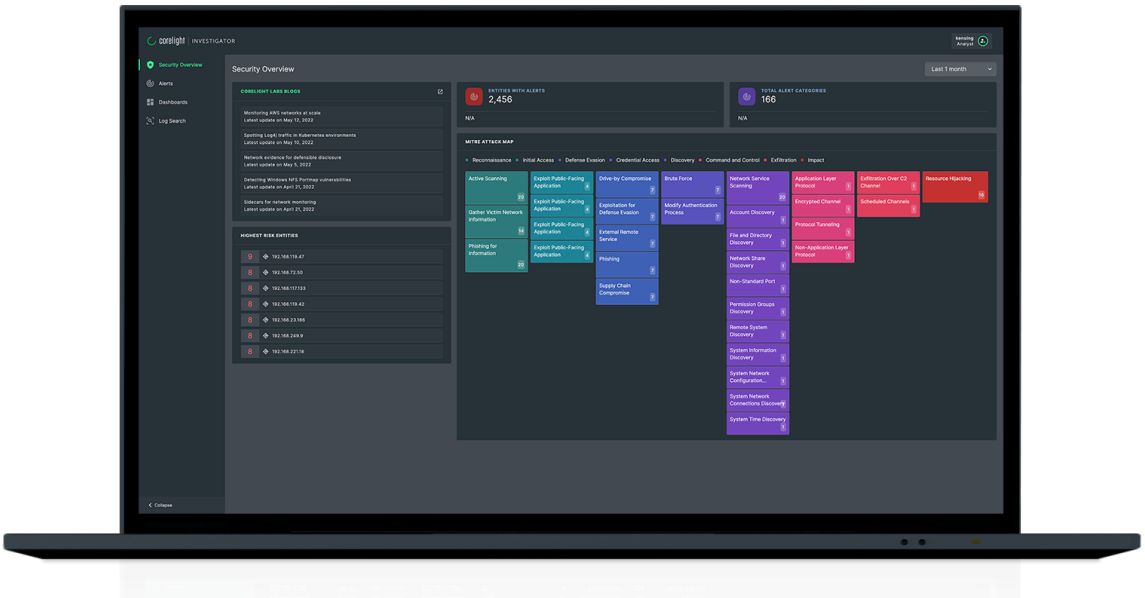
INVESTIGATOR

Open-source-powered network evidence integrated with machine learning and behavioral analytics

Investigator simplifies and accelerates threat hunting and investigation with intelligent alerts, built-in queries, and scalable search.

Solution overview

Investigator is a SaaS-based network detection and response (NDR) solution that combines comprehensive network evidence with machine learning (ML) and advanced analytics in a fast, intuitive search platform that speeds security operations and consolidates legacy toolsets.



The Investigator home screen highlights risky entities with alerts, security guidance from Corelight Labs, and threat detections mapped to MITRE ATT&CK®.

Investigator is easy to implement, highly scalable, and globally accessible 24/7 to your SOC. And, the Corelight Labs team continuously develops new ML-based threat detections and automatically pushes them to the cloud so users have immediate access to the latest analytical content.

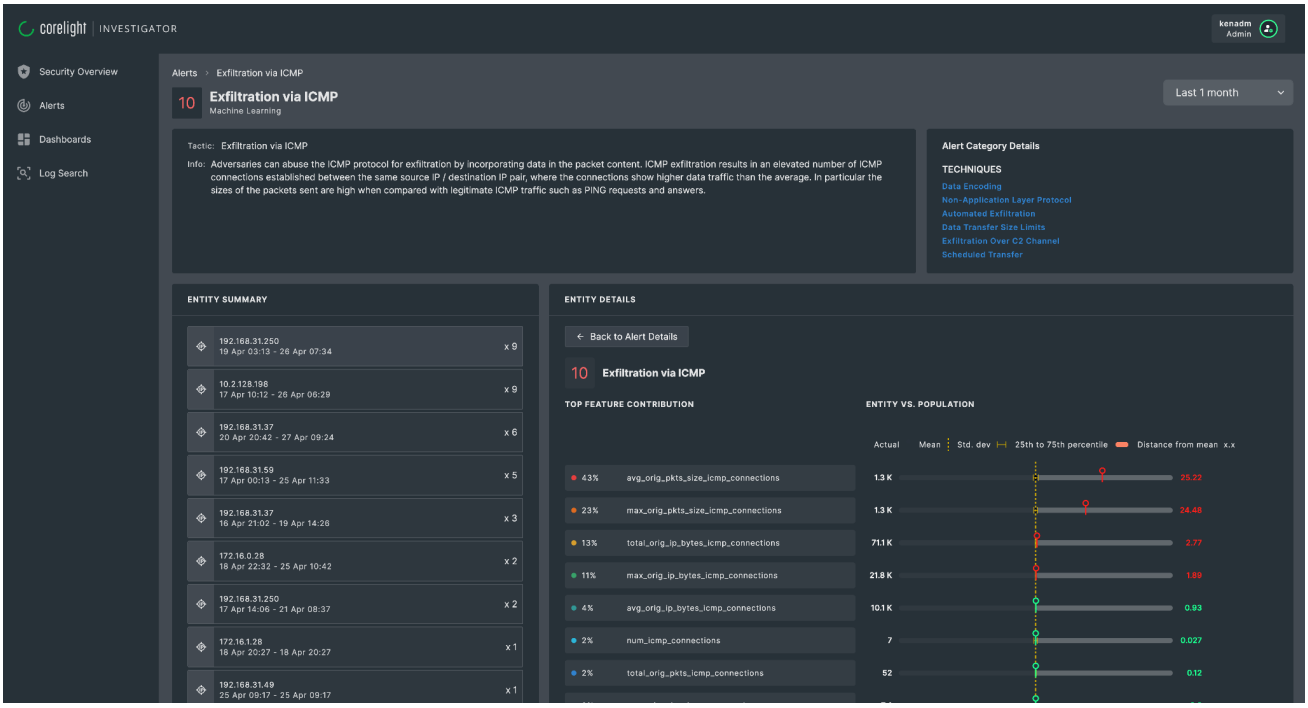
Solution benefits

Complete visibility: Investigator reveals a complete view of your network via Zeek® logs, file metadata, and packets. It provides evidence for every connection—indexed via unique connection IDs—for fast pivots across a dataset compact enough to retain historical network visibility for months, even years.

Highlighted feature:	**Encrypted Traffic Collection:** Investigator displays hundreds of Corelight-proprietary insights around encrypted traffic that give you visibility without decryption, such as the ability to identify large file transfers or human keystrokes over SSH connections.

Next-level analytics: Investigator delivers machine learning, behavioral analysis, threat intelligence and signatures—mapped to the ATT&CK framework—to enable broad coverage of threats. Analysts can view alerts in Investigator and export them to SIEM and XDR solutions for investigations that require additional context.

Highlighted feature:	**Machine learning threat detection:** Investigator applies a number of ML models in the cloud to detect threats (such as data exfiltration over DNS). Then the underlying logic of the ML detection becomes transparent to the analyst to facilitate validation.



An alert view shows machine learning detection of data exfiltration over ICMP, with a summary of the analytics and detail behind the ML detection.

Faster investigations: Investigator aggregates and scores alerts for fast analyst prioritization and also displays transparent ML-based alerts linked to the evidence needed to investigate the alerts for rapid validation and triage.

Highlighted feature:	**Intelligent alert scoring:** Investigator aggregates alerts across both entities and threat types with intelligent alert scoring, delivering a high fidelity queue of alerts that analysts can efficiently prioritize and validate with Corelight's network evidence.

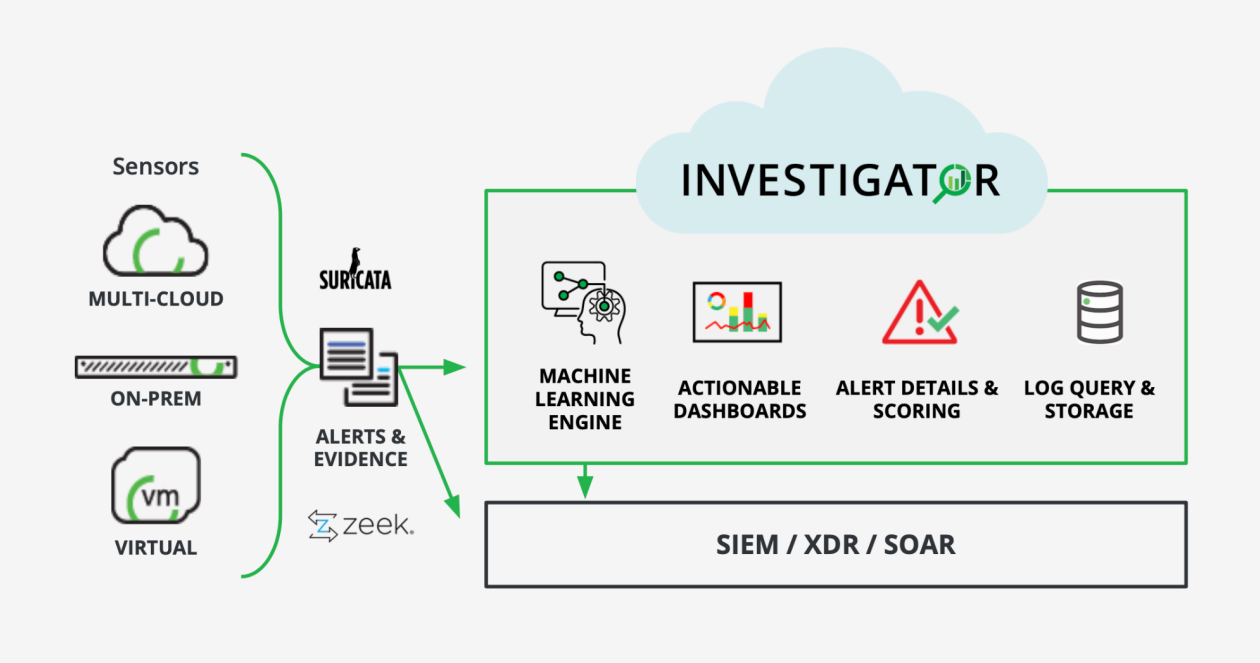
Expert hunting: Investigator supports fast, scalable threat-hunts by giving analysts a powerful query engine and unfettered access to all the evidence. Investigator also includes dashboards with built-in hunting queries and supports custom evidence enrichment (e.g., CMBD) for enriched hunting context.

Highlighted feature:	**Powerful query engine:** Search through all logs quickly, create and save custom searches, and view results in a variety of formats. Perform both live and historic hunting queries with rapid results.

How it works

Investigator extends the power of open-source-driven network evidence to SOC teams everywhere.

Because Investigator is a SaaS solution, customers can access their data from any web browser and ingest evidence from Corelight Sensors. Customers can deploy Corelight Sensors in both on-prem and cloud environments (AWS, GCP, Azure), and the sensors connect to traffic mirrors in physical networks via packet brokers, span ports, or optical taps and in cloud environments via native traffic mirroring (e.g., VPC traffic mirroring in AWS).



This implementation diagram shows how Corelight alerts and evidence flexibly stream from deployed sensors to Investigator or a SIEM (or both) and all Investigator security alerts (including ML-based, notice, and Suricata).

Why Corelight?

Organizations that use Investigator benefit from Corelight's open NDR platform, which confers a number of unique and valuable advantages compared to proprietary NDR platforms:

- **Evidence-driven security**—Corelight customers have open, unrestricted access to all the evidence behind every alert and to all evidence across their environment to maximize knowledge and their investigative capabilities and speed.

- **Community-powered analytics**—Corelight customers enjoy a force multiplication advantage by leveraging the power of continuous analytics engineering from open-source Suricata and Zeek communities, who develop everything from rapid zero-day detections to new protocol analyzers.

- **Flexibility & customization**—Corelight customers can easily modify the platform's capabilities, such as building custom detections and also integrate the platform with their favorite security tools thanks to the open, extensible nature of the underlying technologies used.

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Corelight provides security teams with network evidence so they can protect the world's most critical organizations and companies. On-prem and in the cloud, our open Network Detection and Response platform enhances visibility and analytics, leading to faster investigations and expanded threat hunting. Corelight's global customers include Fortune 500 companies, major government agencies, and large research universities. Based in San Francisco, Corelight is an open-core security company founded by the creators of Zeek®, the widely-used network security technology.

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