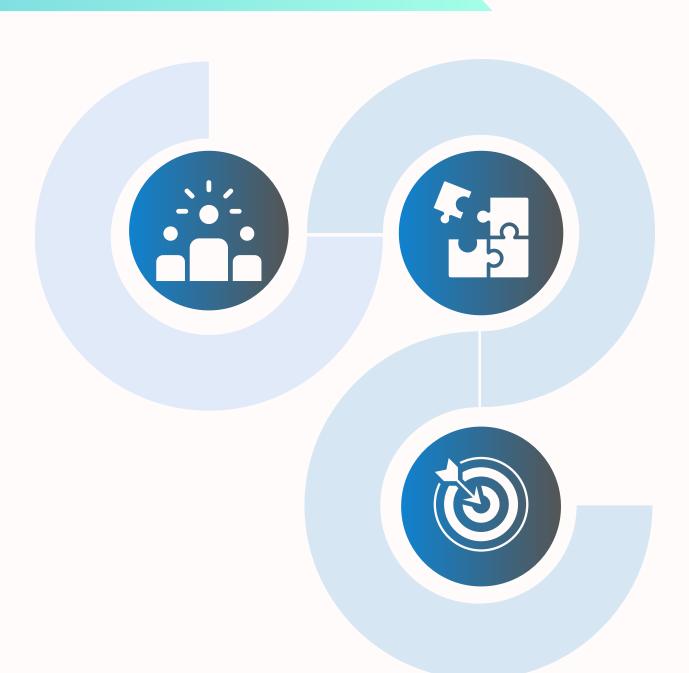


GOALS AND OBJECTIVES

- The framework employs advanced AI/ML models for innovative compromise detection, emphasizing anomaly detection and behavioral analysis.
- Effortless deployment and integration are achieved, ensuring secure communication and integration strategies for various detection methods.
- Evaluation criteria prioritize innovation, device versatility, deployment ease, and false alarm reduction for early compromise detection without relying solely on IoCs, advancing cybersecurity.



KEY FEATURES



Centralized Analysis

Delivering top-tier security with ease.
Because your protection deserves the best.



Alarm System

Our alarm system ensures timely event reminders through instant, real-time notifications.



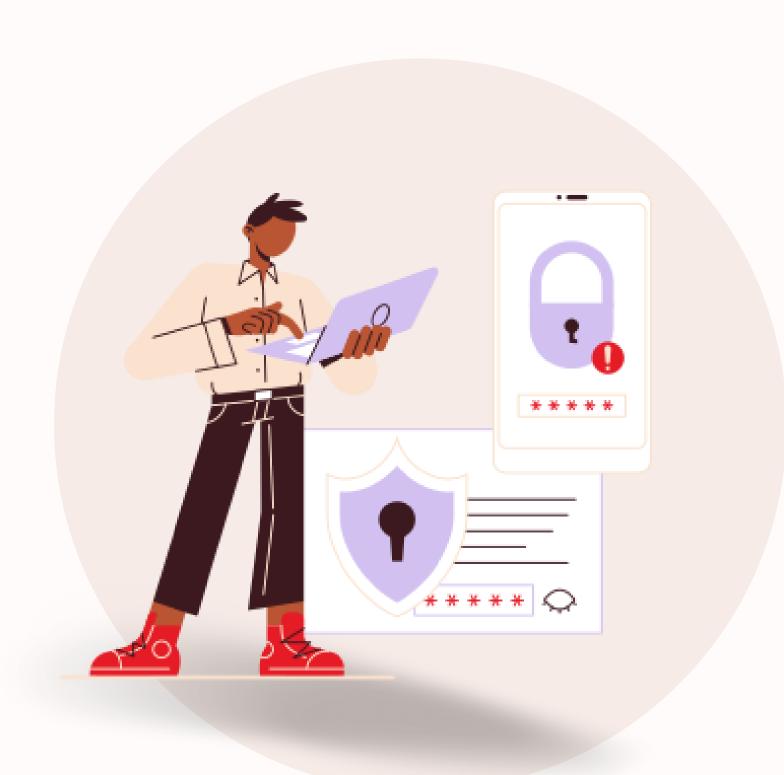
Stay Organised

Stay organized with our system, combining timely alerts and thorough analysis for ultimate vigilance in managing tasks or security measures efficiently.



Integration Capabilities

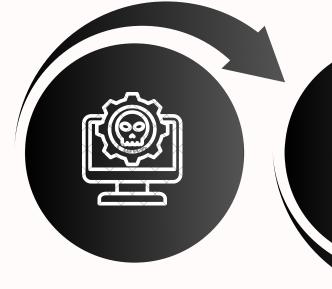
Compatible with diverse platforms and systems, our solution ensures a unified experience for streamlined operations



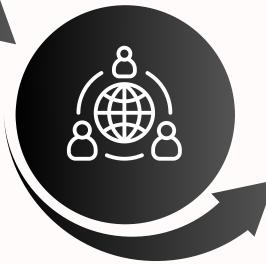
How our cutting-edge cybersecurity solution will reshape industries

Our innovative system, powered by AI/ML, ensures robust threat detection. It monitors real-time malicious activities through system calls, detects network anomalies, filters IPs based on geolocation, and analyzes DNS activity. Adaptable to diverse devices, our secure reporting system and proactive measures minimize false alarms.

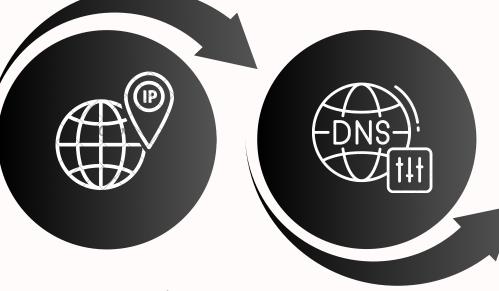
Network Anomaly Detection DNS Activity Analysis Windows
Event Logs
and Registry
Keys





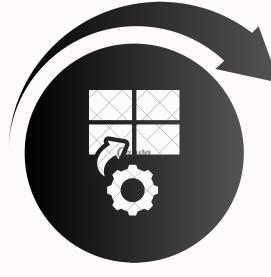


Geolocation-Based IP Filtering



Ransomware Detection in Windows





How it used to work without Al

- Rule-Based Systems: detect threats by monitoring patterns, triggering alerts for manual response.
- Incident Response Plan: Establish a concise incident response plan for swift security incident handling.
- Firewall Logs Analysis: These logs expose unauthorized access and anomalies for swift analysis and detection.

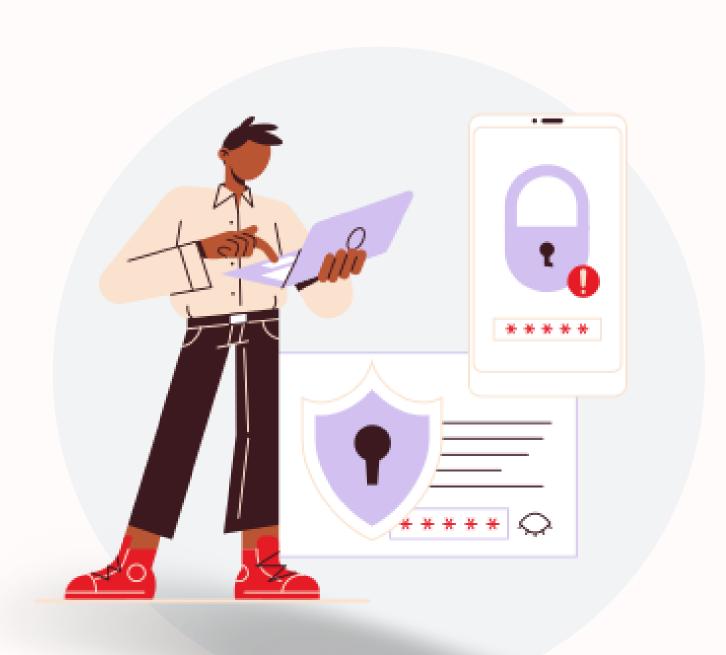
How we tried integrating it with Al

- Al-Enhanced Threat Detection: focus on detecting anomalies and deviations for robust threat detection.
- Modular Flexibility: Independent components in Docker containers ensure flexible threat detection across diverse devices.
- Precision Reporting and Minimized False Alarms: Secure real-time reporting minimizes false alarms using whitelisting and continuous learning.

Our system uses process behavior analysis, tracking system calls to detect malicious activities through deviations from expected patterns.



MALICIOUS ACTIVITY
DETECTION

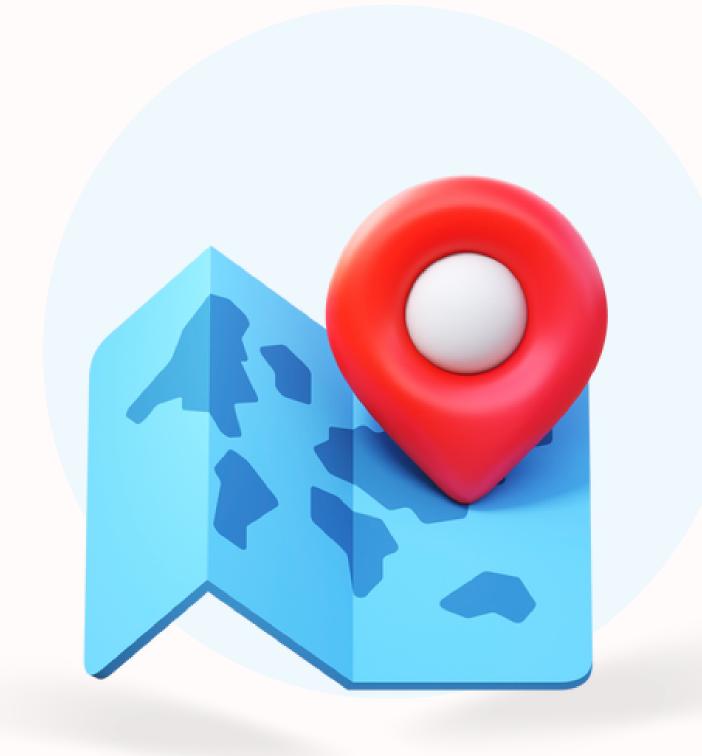


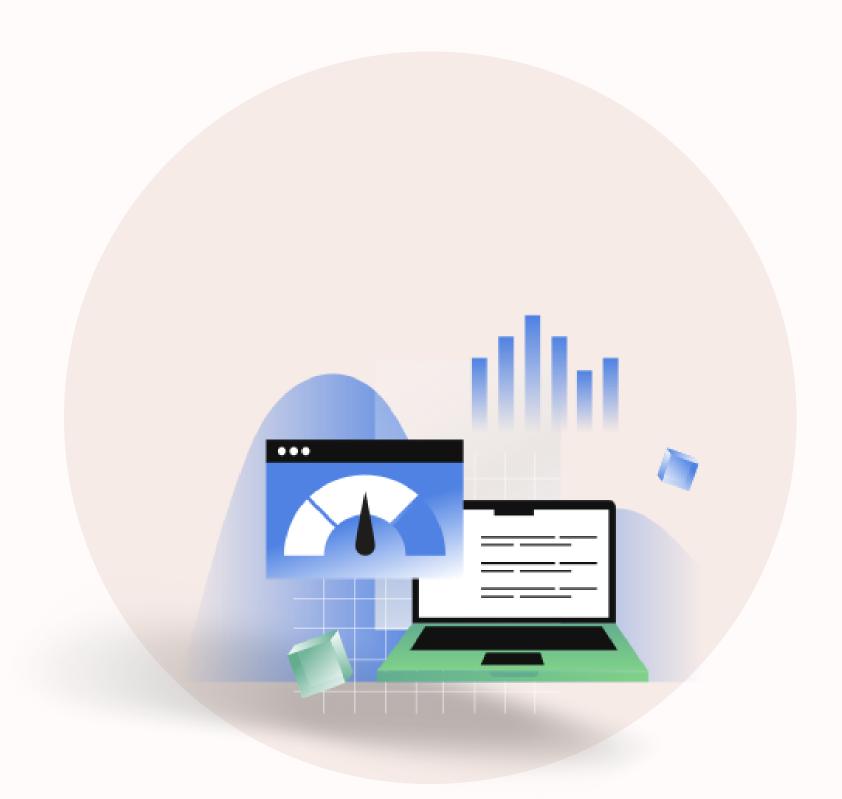
Our system uses flow monitoring to group packets into flows, allowing efficient anomaly detection for enhanced network security.

NETWORK ANOMALY
DETECTION

We boost network security with geolocation-based IP filtering, using statistics to identify anomalies precisely.

GEOLOCATION BASED IP
FILTERING

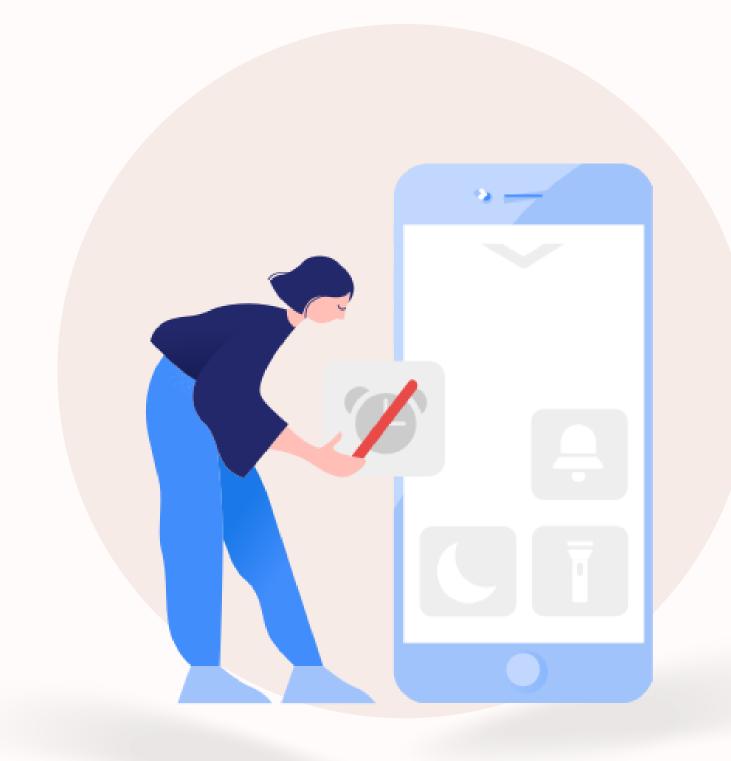




Employs N-gram analysis and Deep **Learning for Swift** detection of changes in packets related to malicious DNS activities, enhancing security.

DNS ACTIVITY ANALYSIS

Utilizing whitelisting, continuous machine learning, and baseline profiling for enhanced threat detection accuracy using an alerting system.

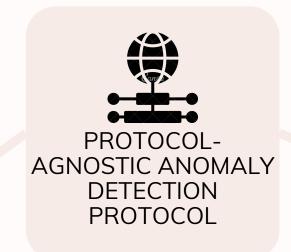


MINIMIZING FALSE ALARMS

FUTURE WORK

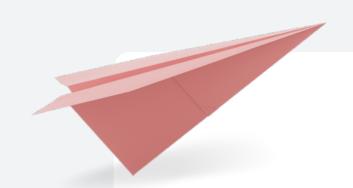


OPTIMIZE LINUX
SERVER DATA
COLLECTION WITH
SYSLOGS









THANK YOU

Please give us some suggestions.

