Cyber Threat Intelligence Dashboard - Summary Report

Introduction

This project focuses on building a real-time Cyber Threat Intelligence (CTI) Dashboard using open-source tools and threat intelligence APIs. The dashboard allows users to input IP addresses or domain names and retrieve real-time threat intelligence data from public CTI sources.

Abstract

The CTI Dashboard is a web-based application designed to assist security analysts in identifying, verifying, and visualizing Indicators of Compromise (IOCs) using real-time threat feeds. It integrates AbuseIPDB and VirusTotal APIs to fetch intelligence and stores the results in a MongoDB database for trend analysis and historical lookups.

Tools Used

- Python (Flask)
- MongoDB
- AbuseIPDB API (Free Tier)
- VirusTotal API (Free Tier)
- HTML, CSS (for UI)
- Bootstrap (optional for styling)

Steps Involved in Building the Project

- 1. Set up the Flask backend and define routes for dashboard and lookups.
- 2. Integrate AbuseIPDB and VirusTotal APIs for threat intelligence queries.
- 3. Configure MongoDB to store IOC lookup history.
- 4. Build HTML templates to display results and recent IOC activity.
- 5. Add .env support for secure API key storage.
- 6. Start Flask development server and test the dashboard functionality.

Conclusion

The CTI Dashboard successfully provides real-time insights into IP/domain threats using open APIs. It is scalable, modular, and can be enhanced with additional sources, charting, or automation for broader threat visibility and faster incident response.