# Cyber-threat intelligence (CTI) and OSINT 3

# 01.Context and overview of ETIP

### Context:

- OSINT: (Open Source Intelligence) data is security data collected from available open sources.
- TIPs (Threat Intelligence Platforms). These platforms help companies gather, link, and analyze security data from a variety of sources to help build defenses.

### Problem:

Unstructured data from multiple natural sources. TIPs require data to be filtered and processed before being analyzed and shared.

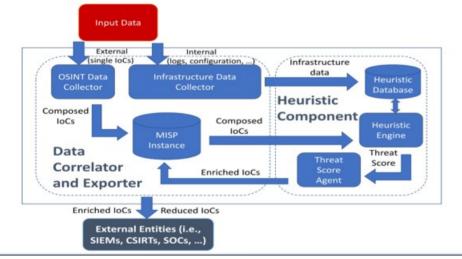
# Propose:

- ETIP architectures secure data collected from multiple sources and links the data.
- Thereby diversifying security data, building a defense system.

## Overview:

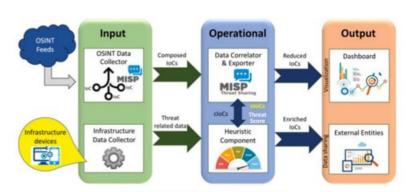
- ETIP (Enriched Threat Intelligence Platform)
- ETIP extends the ability to import and share information of internal detection and monitoring
- A solution to improve the quality assessment of security data.
- A process of linking related security data from multiple internal detection sources and monitoring
- Calculate threat score for each Indicator of Compromised (IoC)
- Deploy the platform
- Security data is leveraged from OSINT and collected from various sources such as firewalls, IDS,...
- This information is analyzed to build defense mechanisms.

# **Operation Module**



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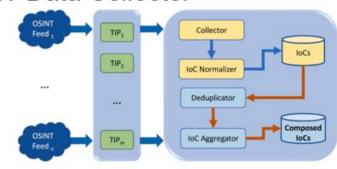
### 02. Architecture of ETIP



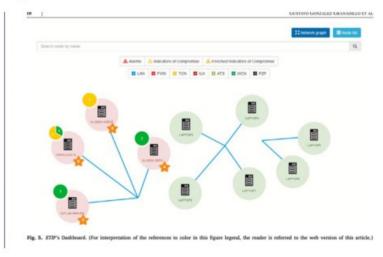
### 03.Architecturaldetails

# **Input Module**

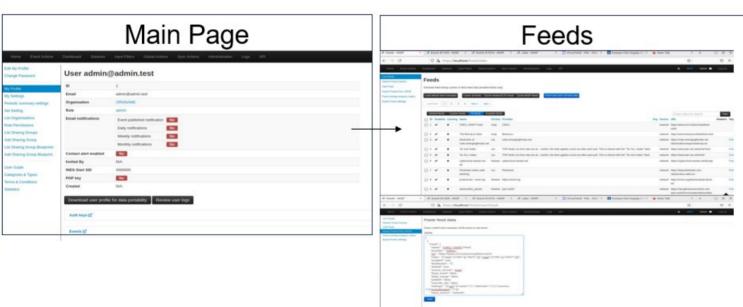
**OSINT Data Collector** 



# **Output Module**



## 04.Demo



- Information sources that provide data on threats and cybersecurity metrics
  - These feeds are typically created and maintained by cybersecurity organizations, security service providers, or the cybersecurity community
- Provide information about events. identifiers and information related to threats, including malicious IP, malicious domain, malicious code, attack signature, APT. This information is collected from a variety of sources
  - · We can import feed from a JSON



- · Event contain information related to network security factors and indicators, such as attacks malicious code, attacker information, malicious code sample, attack campaigns,...
- · Taken from feeds we provided, containing meta data about known ransomware, malware,... • MISP categorizes event for easier analysis
  - · Creator org: Here we can see who is responsible for collecting all that data and putting it in to MISP
  - · Tags: Used to categorize and tag events to enhance search, filtering and sorting

