Threat Hunting

Services to enhance Proactive threat detection

In the ever evolving landscape of Cyber security, understanding the distinct roles of Threat Intelligence and Threat Hunting is crucial for enhancing an organization's security posture. While these terms are often used together, they serve unique purposes and complement each other.

I am diving into Threat Hunting concepts in this Post

	Threat Intel	Threat Hunting
What	lemerging threats	Proactive manual approach assuming breach in the Network (Threats evaded existing security controls) involves exploring IOCs, IOA's and TTPs to uncover hidden threats and looking for unknown threats within an environment
How	Collection, Analysis and dissemination of current/emerging threats from various intelligence sources to other security devices such as SIEM, SOAR, EDR etc to take necessary actions	Uses combination of Tool, Behavioral analysis, hypothesis driven approach
Why	Prioritize alerts, improve Defence mechanisms and respond to effectively	Uncover inactive or long dwelling threats and strengthen/fine tune security controls
Sources/Tools/M odels utilized	OSINT, Paid Services from vendors, Dark Web, In House and Data shared within industry specific groups	SIEM, EDR, NTA, UEBA, Threat Intel etc
Types	Strategic, Tactical, Technical and Operational	IOC based, TTP based, Event based and Entity based

Note- For Threat Intel, Please refer my last week post (10-N0V-2024)

Threat Hunting flow

Threat Hunting plays a critical role, focused on identifying and mitigating threats that may evaded traditional security defenses.

Hypothesis Generation

- •Creation of educated assumption based on specific Indicators/threats for testing.
- Assumption can be based on Threat Intelligence/TTPs/Log events/Entity as explained in next slide.

Data
Collection &
Preparation

- Gathering of logs/data sources from sources (Network/Endpoint/Threat Intel), relevant to hypothesis.
- •Normalizing and Enrichment of data, making it high quality for analysis.

Data Analysis

- •Leveraging right set of tools to query and analyze patterns based upon hypothesis and available data sources
- •SIEM- Aggregate and analyze logs
- •UEBA- Detects user behavior deviations
- •EDR & NTA- Insights on endpoint activities and network traffic

Hunt Execution & Investigation

- Search for IoC's, Tactics, Signs of malicious activity based on hypothesis to identify threats that crossed undetected
- •Perform validation and investigation on the potential threats identified

Finding & Reporting

•Document indicators/threats/assets impacted, evidence collected and detailed analysis performed with mitigation

Response and mprovemen

- If a true positive threat is found, response is triggered making threat hunters work with IR team and device owners
- Evaluate the effectiveness of hunt and update threat hunting playbooks and procedures

Threat Hunting Methodologies

