

Feeding Sentinel With MS Defender Threat Intelligence, Creating IOC

Adrian Cortez

Overview

Feeding Defender threat intelligence into Sentinel makes your SIEM smarter and more effective at catching and responding to real threats faster. It provides the following:

- Enhanced Detection: Defender threat intelligence provides rich, up-to-date info on emerging threats, malware, indicators of compromise (IOCs), and attacker tactics. Feeding this into Sentinel helps improve detection accuracy.
- Contextual Awareness: Sentinel can correlate alerts and events with Defender's threat intel, giving more context to incidents, so security analysts can better understand the severity and scope.
- Proactive Defense: By ingesting Defender threat intelligence, Sentinel can trigger faster automated responses or alerts based on known bad actors or malicious activity patterns identified by Defender.
- Unified Security Monitoring: It creates a centralized place in Sentinel where data from Defender and other sources come together, improving visibility across your entire environment.

Onboard Microsoft Defender Threat Intelligence data connector

- Sentinel > Configuration > Data Connectors > Premium Microsoft
 Defender Threat Intelligence (Connector Details) > Connect
- 2. This allows Sentinel to automatically ingest IOCs collected and curated with Defender

Connector details Prerequisites Premium Microsoft Defender Threat Intelligence To integrate with Premium Microsoft Defender Threat Intelligence make sure you have ✓ Workspace: read and write permissions Microsoft Sentinel provides you the capability to import threat (U) Configuration microsoft Sentinel provides you the capability to import threat intelligence generated by Microsoft to enable monitoring, alerting and hunting. Use this data connector to import Indicators of Compromise (IOCs) from Microsoft Defender Threat intelligence (MDTI) into Microsoft Sentinel. Threat indicators can include IP addresses, domains, URLs, and file hashes, etc. Note: This is a paid connector. To use and ingest data from II, please purchase the "MDTI API Access" SKU from the Partner Center. Use this data connector to import Indicators of Compromise (IOCs) from Premium Microsoft Defender Threat Intelligence (MDTI) into Microsof Import indicators: All available Recommended log sources for matching: Threat Intelligence 1.0.0 VPN Azure Firewall Barracuda Web Application Firewall Azure Web Application Firewall (WAF) Windows DNS via Legacy Agent Microsoft 365 (formerly, Office 365) Supported by Microsoft Corporation ☐ | Email Related content

Manually Create Indicators of Compromise

For this exercise, I found a malicious IP address from AbuseIPDB

Creating an IOC includes classifying the indicator type, the kill chain and phase, severity level, traffic light protocol, and more.

These fields can help security analysts understand what stage of the attack they are currently in and which incidents are more prioritized, which helps with response.

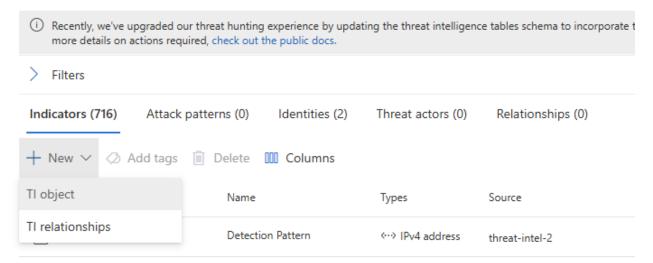
- Reconnaissance attacker scanning your network.
- Command and Control (C2) IP used to control infected machines.
- Actions on Objectives IP used to exfiltrate data.

TLP ensures you can share indicators safely without violating agreements or leaking sensitive details.

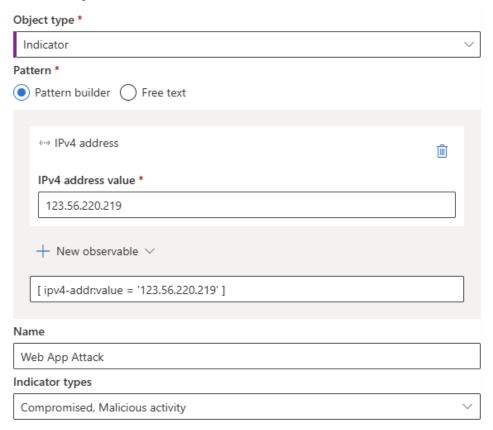
- TLP:RED only for specific recipients, no further sharing. Should be used for information that is highly sensitive and could cause harm if shared beyond specific individuals.
- TLP:AMBER share within your organization. Should be used when information is sensitive but can be shared internally to support defensive actions.

- TLP:GREEN share with peers/partners. Should be used when defending against threats and is safe to share within the organization, but not to the public.
- TLP:WHITE share publicly.

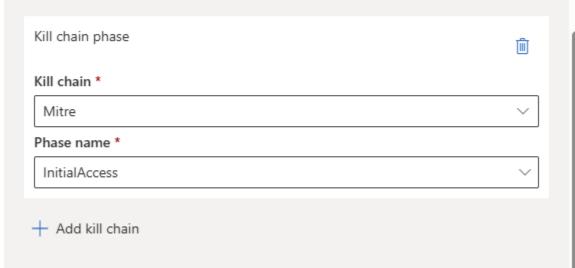
Intel management

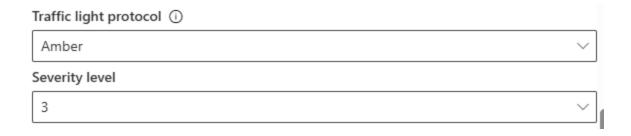


New TI object



Kill chains (i)





View Manual IOC and Defender IOC

Indicators (1,062) Attack patterns (0) Identities (2) Threat actors () Relationships (0)							
+ New ∨ ∅ Add tags Î Delete I Columns							
	Values	Name	Types	Source	Confidence	Alerts	Tags
	123.56.220.219	Web App Attack	↔ IPv4 address	AbuseIPDB		0	
	137.59.94.130	Microsoft Identified IOC	→ Network traffic	Microsoft Defender Threat	100	0	honeypot
	8.221.141.179	Microsoft Identified IOC	→ Network traffic	Microsoft Defender Threat	100	0	honeypot
	150.107.38.5	Microsoft Identified IOC	→ Network traffic	Microsoft Defender Threat	100	0	honeypot
	104.248.26.60	Microsoft Identified IOC	→ Network traffic	Microsoft Defender Threat	100	0	honeypot
	https://melamorri.co	Microsoft Identified IOC	ල URL	Microsoft Defender Threat	75	0	+3
	'SHA-1':A4AAD0E2AC	Microsoft Identified IOC	☐ File	Microsoft Defender Threat	75	0	+3
	https://gohazeldale.c	Microsoft Identified IOC	ල URL	Microsoft Defender Threat	75	0	+3
	190.133.173.74	Microsoft Identified IOC	→ Network traffic	Microsoft Defender Threat	100	0	honeypot
	180.75.19.4	Microsoft Identified IOC	→ Network traffic	Microsoft Defender Threat	100	0	honeypot

Review MITRE ATT&CK framework

Have a deep understanding of MITRE framework and TLP, so when creating IOC or viewing them, we can better understand how to respond.

