

Feeding Sentinel With MS Defender Threat Intelligence, Creating IOC

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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

1. 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

 Premium Microsoft Defender Threat Intelligence

Disconnected
Status

Microsoft
Provider

⌚ --
Last Log Received

Description

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 it, please purchase the "MDTI API Access" SKU from the Partner Center.**

Last data received
--

Content source ⓘ	Version
Threat Intelligence	1.0.0

Author
Microsoft

Supported by
[Microsoft Corporation](#) | [Email](#)

Related content

0


Workbooks

2

Queries


0

Analytics rules templates

 **Prerequisites**

To integrate with Premium Microsoft Defender Threat Intelligence make sure you have:

✓ **Workspace:** read and write permissions.

 **Configuration**

Use this data connector to import Indicators of Compromise (IOCs) from Premium Microsoft Defender Threat Intelligence (MDTI) into Microsoft Sentinel.

Import indicators:

All available

Recommended log sources for matching:

- Amazon Web Services
- Microsoft Entra ID
- Azure Activity
- VPN
- Azure Firewall
- Barracuda Web Application Firewall
- Azure Web Application Firewall (WAF)
- Windows DNS via Legacy Agent
- Microsoft 365 (formerly, Office 365)

Connect

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

 Recently, we've upgraded our threat hunting experience by updating the threat intelligence tables schema to incorporate more details on actions required, [check out the public docs](#).

 Filters



Indicators (716)

Attack patterns (0)

Identities (2)


Threat actors (0)

Relationships (0)

 New 

 Add tags

 Delete

 Columns

TI object

Name

Types

Source

TI relationships

Detection Pattern

↔ IPv4 address

threat-intel-2

New TI object

Object type *

Indicator

▼

Pattern *

☒ Pattern builder

☐ Free text

↔ IPv4 address

IPv4 address value *

123.56.220.219

+

 New observable ▼

[ipv4-addr:value = '123.56.220.219']

Name

Web App Attack

Indicator types

Compromised, Malicious activity

▼

Kill chains ⓘ

Kill chain phase

Kill chain *

Mitre

▼

Phase name *

InitialAccess

▼

+

 Add kill chain

Traffic light protocol ⓘ

Amber



Severity level

3



View Manual IOC and Defender IOC

Indicators (1,062)

Attack patterns (0)

Identities (2)

Threat actors (--)

Relationships (0)

+ New ▾

Add tags

Delete

Columns

<input type="checkbox"/>	Values	Name	Types	Source	Confidence	Alerts	Tags
<input type="checkbox"/>	123.56.220.219	Web App Attack	↔ IPv4 address	AbuseIPDB	--	0	--
<input type="checkbox"/>	137.59.94.130	Microsoft Identified IOC	↔ Network traffic	Microsoft Defender Threat...	100	0	honeypot
<input type="checkbox"/>	8.221.141.179	Microsoft Identified IOC	↔ Network traffic	Microsoft Defender Threat...	100	0	honeypot
<input type="checkbox"/>	150.107.38.5	Microsoft Identified IOC	↔ Network traffic	Microsoft Defender Threat...	100	0	honeypot
<input type="checkbox"/>	104.248.26.60	Microsoft Identified IOC	↔ Network traffic	Microsoft Defender Threat...	100	0	honeypot
<input type="checkbox"/>	https://melamorri.co...	Microsoft Identified IOC	URL	Microsoft Defender Threat...	75	0	+3
<input type="checkbox"/>	'SHA-1':A4AAD0E2AC...	Microsoft Identified IOC	File	Microsoft Defender Threat...	75	0	+3
<input type="checkbox"/>	https://gohazeldale.c...	Microsoft Identified IOC	URL	Microsoft Defender Threat...	75	0	+3
<input type="checkbox"/>	190.133.173.74	Microsoft Identified IOC	↔ Network traffic	Microsoft Defender Threat...	100	0	honeypot
<input type="checkbox"/>	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.

