

Microsoft

Technology Integration Scenarios with Microsoft Sentinel

Building with Microsoft Sentinel

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Introduction – Adding customer value.

Microsoft Sentinel is a next-generation, cloud native SIEM that re-imagines, threat detection, investigation and response powered by the limitless speed and scale of the Azure Cloud and the advanced services Azure delivers including AI, Automation and ease of deployment.

Security Operations teams use Microsoft Sentinel to generate detections as well as investigate and remediate threats. Offering your data, detections, automation, analysis and packaged expertise, to customers via integration with Microsoft Sentinel enables security teams with the right information at the right time to execute informed security responses.

Microsoft Sentinel Solutions make it easier than ever for joint customers to discover, deploy, and maximize the value of the partner integrations that you create. With solutions, partners can:

Unlock more value for your current customers and create new use cases. When you build an Microsoft Sentinel solution, you're giving your customers everything they need to start maximizing the security value that your product or service already gives them – by building detections on top of that data, enabling them to cross-correlate it with the rest of their ecosystem, streamline investigation via the investigation graph, automate responses, and more. By delivering solutions you have an opportunity to deeply integrate with each of these Microsoft Sentinel SIEM and SOAR capabilities to not only deliver combined value for your current offerings but also expand to newer use cases that Microsoft Sentinel has to offer currently and in the future.

Reach new customers. Broaden discoverability and reach a new customer base through the Microsoft Sentinel solutions marketplace. Microsoft Sentinel solutions integrate with [Azure Marketplace](#), and the solutions you deliver is showcased both in Microsoft Sentinel solutions blade as well as the Azure Marketplace. Hence delivering solutions gives you a direct connection to a potentially new and broad customer base.

Productize your integration investments. Enable customers to deploy integrations with just a few clicks by combining content into one single, easily discoverable, easily deployable package - consolidating value across data connectors, analytics, playbooks, and more. With solutions, you are delivering a combined productized value for your offerings in Microsoft Sentinel to deliver end-to-end scenarios in Microsoft Sentinel for our mutual customers.

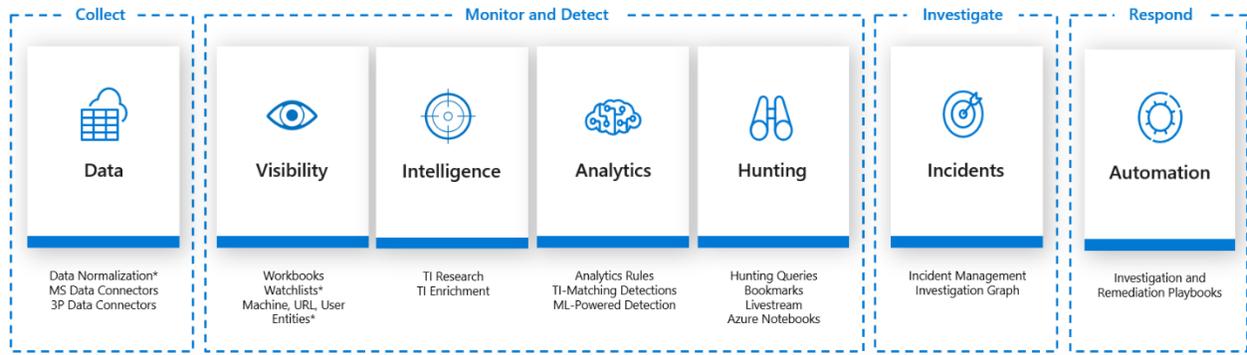
This article outlines

- Mutual Scenarios and how to decide which make sense.
- What technical features are needed to enable each scenario.
- Where to go for instructions on building and publishing
- What Microsoft programs can help you with getting to customers.

Scenarios Overview – Use cases that resonate with customers

Microsoft Sentinel is designed to provide Security Operations teams with an integrated platform in which they can execute the daily activities of Collecting information, Detecting threats, Investigating and Responding to security incidents.

- Create Detections via the SIEM (Bring Log Data, Actionable Intelligence, Analytics rules, Hunting Rules, Guided hunting experiences, ML Analysis) to create detections out of semi-structured data.
- Contribute to Microsoft Sentinel Investigations (Bring your detections, Queries, Historical data and supporting data like HVA DB's, VIP DBs, Vulnerability data, Compliance data, etc.)
- Automate tasks in Microsoft Sentinel (Write automation rules for enrichment, remediation or orchestrating security activities within the customer's environment and infrastructure)



Each of these activity areas contain Microsoft Sentinel artifacts that technology partners can contribute and combine to deliver magnified value to Microsoft Sentinel customers.

Collect - Bringing Data

Almost every Microsoft Sentinel technology partnership scenario begins with data. At the heart of Microsoft Sentinel are both a flexible and powerful general detection engine, and a full featured investigative engine. Both operate over data ingested into Microsoft Sentinel's data repository.

Sentinel works with four classes of data:

- Unprocessed Data
- Security Conclusions
- Reference Data
- Threat Intelligence.

It is very common for security products to simultaneously include more than one of these classes of data and each enable different activities within Microsoft Sentinel.

Unprocessed Data - Facilitating Detections and Enabling Hunting. Analysis of raw operational data in which signs of malicious activity may be present is critical to the success of security teams. Microsoft Sentinel includes a cloud native, automatically scaled, SIEM. Bringing unprocessed data to Microsoft Sentinel enables you to bring Microsoft Sentinel's Hunting and detection capabilities (both query and ML based) to identify new threats and automate detection of already identified threats evidenced in the data you supply.

Examples of this class of data are Syslog, CEF over Syslog, application logs, firewall logs, authentication logs, access logs, etc.

Security Conclusions - Creating alert visibility and opportunity for correlation. Alerts and Detections are conclusions that have already been made about threats. Putting detections in context with all the activities and other detections visible in Microsoft Sentinel investigations, saves time for analysts and creates a more complete picture of an incident, resulting in better prioritization and better decisions.

Examples of detections include anti-malware alerts, suspicious processes, communication with known bad hosts, network traffic that was blocked and why, suspicious logons, detected password spray attacks, identified phishing attacks, data exfiltration events, and much more.

Reference Data - Building Context and saving investigators time and effort by making information gathering more efficient. Much time is spent by SOC Investigators gathering additional information from other systems to inform both investigation and remediating detected threats. Delivering Enrichment automation, the process of adding additional meaningful related data to Microsoft Sentinel incidents, is a highly valuable way to help the SOC improve their speed and completeness with investigations.

Examples of enrichment data include CMDBs, high value asset databases, application dependency databases, IP assignment logs, TI collections for enrichment and more.

Threat Intelligence – Contributing Indicators of known threats to power threat detection. TI can consist of current indicators, representing immediate threats, or historical indicators that are documented and retained for future prevention. Microsoft Sentinel supports both via different integration patterns.

- **Delivering current threat indicators** to Microsoft Sentinel, in the form of observables such as IP addresses, domains, etc. used in Microsoft Sentinel’s detection engine for the purpose of finding sightings in customer log data. Current indicators can be the output from a Threat Intelligence Platform or other scoped feed and can be directed, not only to Microsoft Sentinel but to any Microsoft Product that can accept customer supplied TI.
- **Consuming Historical Indicators and/or Reference datasets** are also valuable to Microsoft Sentinel customers. In practice these data sets are often extremely large and best referenced ad hoc, in place, rather than being directly imported into Microsoft Sentinel.

Monitoring and Detecting

The activities of the Monitoring and Detection capabilities in Microsoft Sentinel, are fundamentally about creating automated detections that help customers scale their security team’s expertise.

Threat Detection Rules – Enabling sophisticated detection to create accurate, meaningful alerts.

Supplying your expertise and insights around what activities can be detected in the data you deliver can be encoded as Microsoft Sentinel Analytics making it easy for customers to gain the benefit of your experience. Analytics are query-based rules, operating over the data in a customer’s Microsoft Sentinel workspace(s). Analytics can output alerts (notable events), incidents (unit of investigation), and fire off automation playbooks.

Threat detection rules can be included in Microsoft Sentinel Solutions as well as via the Microsoft Sentinel ThreatHunters community. Contributing Microsoft Sentinel Analytics rules via the community can help encourage community creativity over partner sourced data and help customers with more reliable and effective detections.

An example of a detection rule scenario might be to “Find the IP addresses of successful sign-ins that were also used in attempts to sign into disabled accounts.”

Enabling Hunting – Helping customers find the “unknown” threats in their data. Microsoft Sentinel enables a rich set of hunting abilities that enable you to contribute your expertise to empower Microsoft Sentinel Hunters directly in the Microsoft Sentinel UI.

Helping customers hunt over the data that you supply enables customers in the process of discovering, as yet, undetected threats evidenced in the data you supply. You can deliver tactical hunting queries that highlight specific knowledge and/or complete guided hunting experiences in the form of Microsoft Sentinel Notebooks.

Visualization – Helping customers manage and understand your data. Microsoft Sentinel customers invest in bringing vast amounts of data to Microsoft Sentinel. Creating graphic views of how well data is flowing and how effectively it contributes to detections highlights partner value to customers, by providing easy to use, customer customizable dashboards.

Investigating

Contributing to Investigative Graph – Giving investigators the right data, right when they are looking for it. The Microsoft Sentinel Investigation Graph allows investigators to view security incidents and alerts via the lens of connected entities to find relevant or related things that contributed to the event. Partners contribute to this experience in one of two ways. First, Microsoft Sentinel Alerts and incidents, either delivered by partner solutions, or created in Microsoft Sentinel via Analytics rules are automatically included. Secondly, partners can also extend the Microsoft Sentinel Investigation UI with Exploration Queries allowing custom queries into partner supplied data, enabling rich exploration, and linking of information and insights for the Security Investigator.

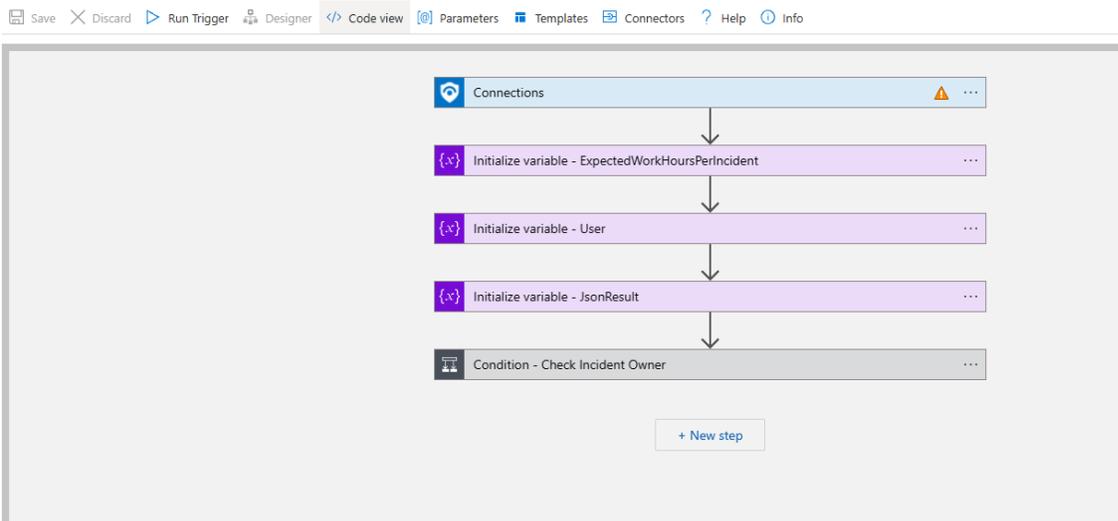
The screenshot displays the Microsoft Sentinel Investigation Graph interface. The main area shows a network graph with nodes representing entities and lines representing relationships. A sidebar on the right displays a 'Timeline' of events, including: 'Connection to a malicious URL' (3/13/2019, 10:15:00 AM), 'Anomalous login' (3/13/2019, 10:21:00 AM), 'Suspicious Powershell Activity Detected' (3/13/2019, 11:25:00 AM), 'Anomalous sign-in to multiple computers' (3/13/2019, 1:51:00 PM), and 'Mass download' (3/13/2019, 2:48:00 PM). The top navigation bar shows 'Investigation', 'Anomalous login' incident, 'Medium' severity, 'New' status, 'admin@contoso.com' owner, and '3/14/2019, 11:32:00 AM' last incident update time.

Responding

Coordination and Remediation. Enabling Microsoft Sentinel users to orchestrate and effect remediations quickly and accurately. Microsoft Sentinel Playbooks support a partner extensible workflow environment that allow for creation of rich automations which execute security related tasks across customer environments. Enabling Microsoft Sentinel customers with the ability to configure partner product security policies, gathering additional data to inform investigative decisions, linking Microsoft Sentinel Incidents to external incident management systems, and integrating alert lifecycle management across partner solutions are all high value customer scenarios that enable quicker and more reliable responses to security incidents.

[Home](#) > [Azure Sentinel](#) > [Azure Sentinel](#) > [Sentinel_Incident_Assignment_Shifts](#) >

Logic Apps Designer



Deciding what to build – What to include in your Microsoft Sentinel Solution

There is a rich set of building blocks that partners can combine to craft a solution. What to build depends on what scenarios apply. Below is a table that links the scenarios discussed in this paper with the essential and optional Microsoft Sentinel technical components to include in your Microsoft Sentinel Solution, that contribute to each scenario. Multiple scenarios are common and encouraged.

Scenarios – Pick all that apply	Examples	How data is used in Microsoft Sentinel	What to build
<i>Your solution generates data that can inform or is important to security investigations. May or may not include detections</i>	Solutions that supply some form of log data: Firewalls, Cloud Application Security Brokers, Physical Access Systems, Syslog output. Commercially available and enterprise-built LOB applications, Servers, Network Metadata, anything deliverable over Syslog in Syslog of CEF format or REST API in JSON format.	Import Data into Microsoft Sentinel via data connector to enable analytics, hunting, investigations, visualizations, etc.	Microsoft Sentinel Data Connector - Deliver data and link to other customizations in our UI. <ul style="list-style-type: none"> <input type="checkbox"/> Workbooks (Recommended) <input type="checkbox"/> Sample Queries (Mandatory) <input type="checkbox"/> Analytics – Build detections on your data in Microsoft Sentinel. (Recommended) <input type="checkbox"/> Hunting Queries - Enable hunters with pre-built queries they can use in hunting(Optional) <input type="checkbox"/> Azure Notebooks – Deliver fully guided, repeatable hunting experience. (Optional)
<i>If you provide detections...</i>	Antimalware, Enterprise Detection and Response solutions, Network Detection and Response solutions, Mail Security solutions including anti Phishing products, Vulnerability scanning, Mobile Device Management, UEBA Solutions, Information protection, products, etc.	Making your detection, alert or incident available in Microsoft Sentinel enables your detections to appear in context with other alerts and incidents. Consider also delivering the log or metadata that powers your detections as customers routinely ask for it as additional context during investigation.	Build an Microsoft Sentinel Data connector as above plus: <ul style="list-style-type: none"> <input type="checkbox"/> Analytics – Create Microsoft Sentinel Incidents from your detections so they become useable in incident investigations (Recommended)
<i>Supplying Threat Intelligence Indicators</i>	TIP platforms, STIX/TAXII Collections, public or licensed TI Sources. Reference data: WhoIS, GeolIP, Newly observed Domains, etc.	Current indicators should be delivered to Microsoft Sentinel for use in Microsoft detection platforms including Sentinel and Defender Very Large scale or Historical datasets should be used for enrichment scenarios and are best accessed remotely.	Current TI <ul style="list-style-type: none"> <input type="checkbox"/> Build GSAPI connector to push indicators to Microsoft Sentinel <input type="checkbox"/> Provide STIX 2.0,2.1 TAXII Server, customers will use built in TAXII data connector. Historical indicators and/or reference datasets <ul style="list-style-type: none"> <input type="checkbox"/> Logic app Connector and enrichment workflow playbook
<i>Additional Context</i>	CMDB, High value Asset DB, vIP DBs, Application dependency DBs, Incident Management Systems, Ticketing Systems	Alert and Incident Enrichment.	<ul style="list-style-type: none"> <input type="checkbox"/> Logic App connector <input type="checkbox"/> Enrichment workflow playbook <input type="checkbox"/> Potentially external Incident lifecycle management workflow
<i>You can implement security policies</i>	Firewalls, NDR, EDR, MDM, Identity solutions, Conditional Access solutions, physical access solutions, other products that support block/allow or other actionable security policies	Microsoft Sentinel actions and workflows enabling remediations and responses to threats	<ul style="list-style-type: none"> <input type="checkbox"/> Logic App connector <input type="checkbox"/> Action workflow playbook

Getting Started

All Microsoft Sentinel Technical integrations begin with the [Microsoft Sentinel Github Repository](#) and [Contribution Guidance](#).

When you are ready to begin work on your Microsoft Sentinel Solution, instructions for submitting, packaging and publishing are found in the [Guide to Building Microsoft Sentinel Solutions](#)

Getting to market

Microsoft offers a number of programs to help partners approach Microsoft customers.

- [Microsoft Partner Network](#) The primary program for partnering with Microsoft is the Microsoft Partner Network. Membership in MPN is required to become an Azure Marketplace publisher where all Microsoft Sentinel Solutions are published.
- [Azure Marketplace](#) Microsoft Sentinel Solutions are delivered via the Azure Marketplace where customers go to discover and deploy both Microsoft and partner supplied general Azure integrations. Microsoft Sentinel Solutions are one many offer types that customers will find. Your validated Microsoft Sentinel Solution Marketplace offers will automatically also appear, in product, in the Microsoft Sentinel Content Hub.
- [Microsoft Intelligent Security Association](#) is the program specifically designed to provide Microsoft Security Partners with help creating awareness of partner created integrations with Microsoft customers and helps provide discoverability of your Microsoft Security product integrations.

Joining the MISA program requires a nomination from a participating Microsoft Security Product Team and building the following Microsoft Sentinel integrations qualify partners for nomination

- ✓ Microsoft Sentinel Solution and associated content – Workbooks, Sample Queries, Analytics Rules
- ✓ Published Logic Apps Connector and Microsoft Sentinel Playbooks.
- ✓ API integrations – on a case-by-case basis.

To request a MISA nomination review or for questions please contact:

MicrosoftSentinelPartner@microsoft.com