

"I finally master Azure's products, acronyms, and concepts! It was a breeze!"

François, 26 years old



SIEM Ms SENTINEL

- SECURITY INFORMATION AND EVENT MANAGEMENT (SIEM)
- Combines SIM and SEM to provide real-time analysis of security alerts generated by network hardware and applications.

SIM

LOG MANAGEMENT

Focus on simple collection and storage of log messages and audit trails.

SECURITY INFORMATION MANAGEMENT (SIM)

Long-term storage as well as analysis and reporting of log data.



SEM

EVENT LOGS

Systems and applications generate events which are kept in event logs. Lists of activities that occurred, with records of new events being appended to the end of the logs as they occur.

SECURITY EVENT MANAGEMENT (SEM)

Real-time monitoring, correlation of events, notifications, and console views.



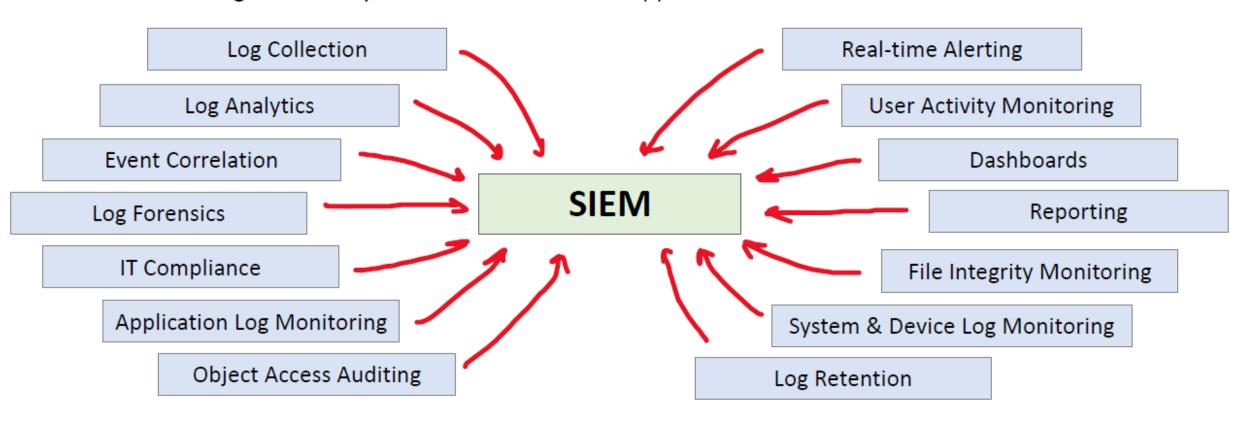
(STRUCTURED) LOGS VS EVENT LOGS

- All events can be represented as structured logs, but not all structured logs are events.
- Unlike logs, events describe a unit of work, meaning they contain all the information about what it took for a service to perform a certain job.
- Not every log is an event in its entirety.
- Logs are usually only portions of events.
- A group of logs can compose a single event.

SIM + SEM = SIEM

SECURITY INFORMATION AND EVENT MANAGEMENT (SIEM)

Combines SIM and SEM to **provides real-time analysis of security alerts** generated by network hardware and applications



Microsoft Sentinel

TO GET STARTED WITH MICROSOFT SENTINEL, YOU NEED A SUBSCRIPTION TO MICROSOFT AZURE.

Microsoft Sentinel is a scalable, cloud-native solution that provides:

- Security information and event management (SIEM)
- Security orchestration, automation, and response (SOAR)

Microsoft Sentinel uses built-in AI to help you quickly analyze large volumes of data across an enterprise. Microsoft Sentinel aggregates data from various sources, including users, applications, servers, and devices running on-premises or in any cloud, letting you reason over millions of records in a few seconds. With Microsoft Sentinel, you can:

- Collect data at cloud scale across all users, devices, applications, and infrastructure, both onpremises and in multiple clouds.
- **Detect previously uncovered threats** and minimize false positives using Microsoft's analytics and unparalleled threat intelligence.
- Investigate threats with AI and hunt suspicious activities at scale, tapping into decades of cybersecurity work at Microsoft.
- Respond to incidents rapidly with built-in orchestration and automation of common tasks.



Collect

Security data across your enterprise



Respond Rapidly and automate protection



Microsoft Sentinel Cloud-native SIEM+SOAR



Detect

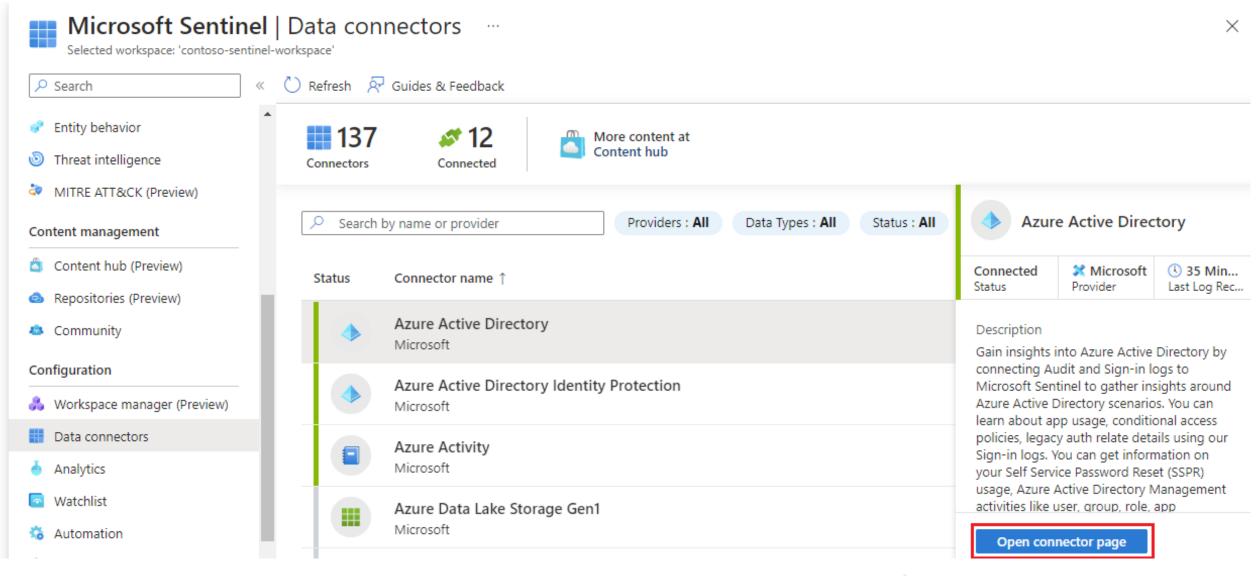
Threats with vast threat intelligence



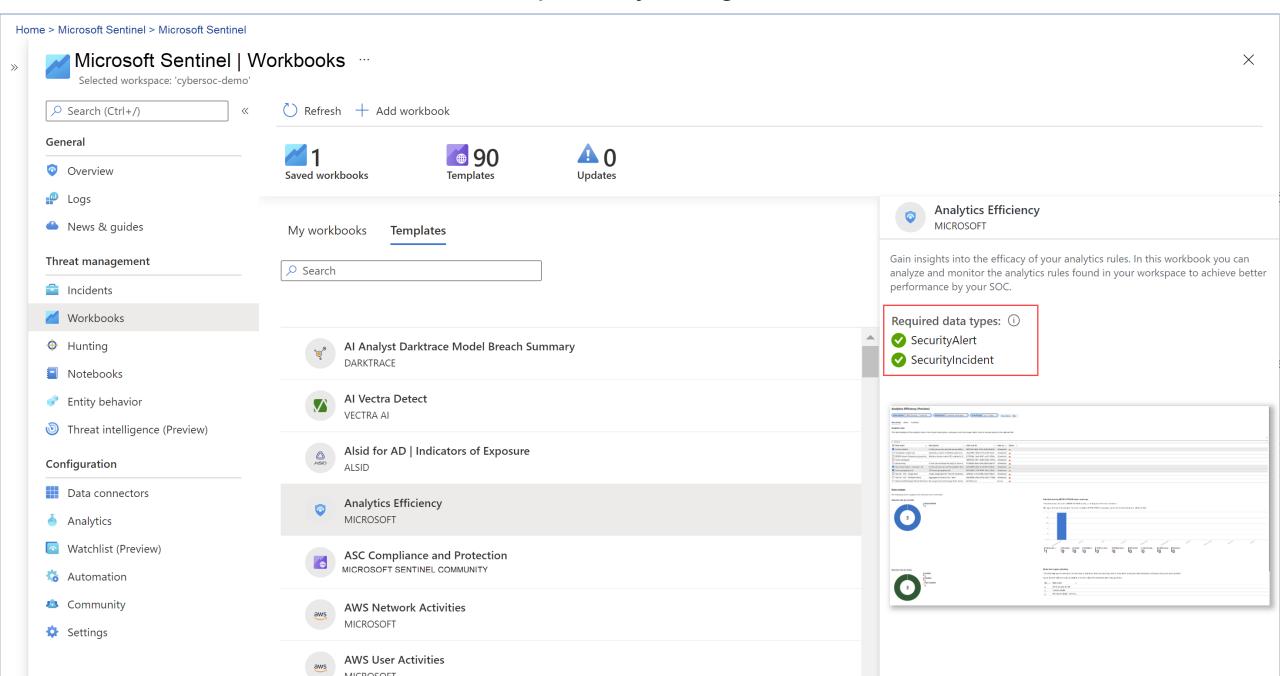
Critical incidents guided by Al

Collect data by using data connectors

Home > Microsoft Sentinel > Microsoft Sentinel



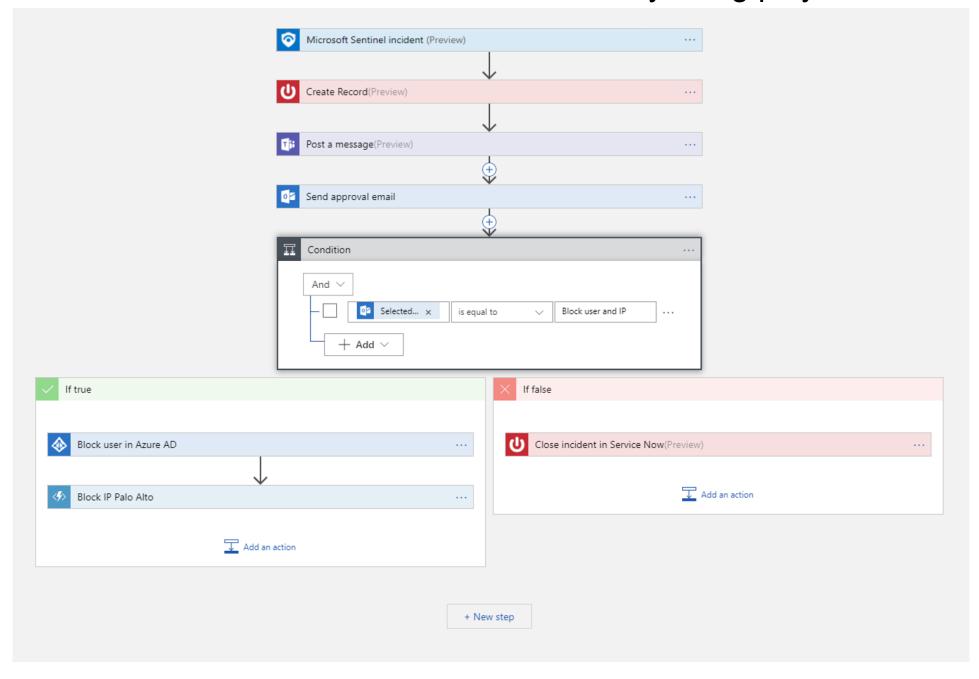
Create interactive reports by using workbooks



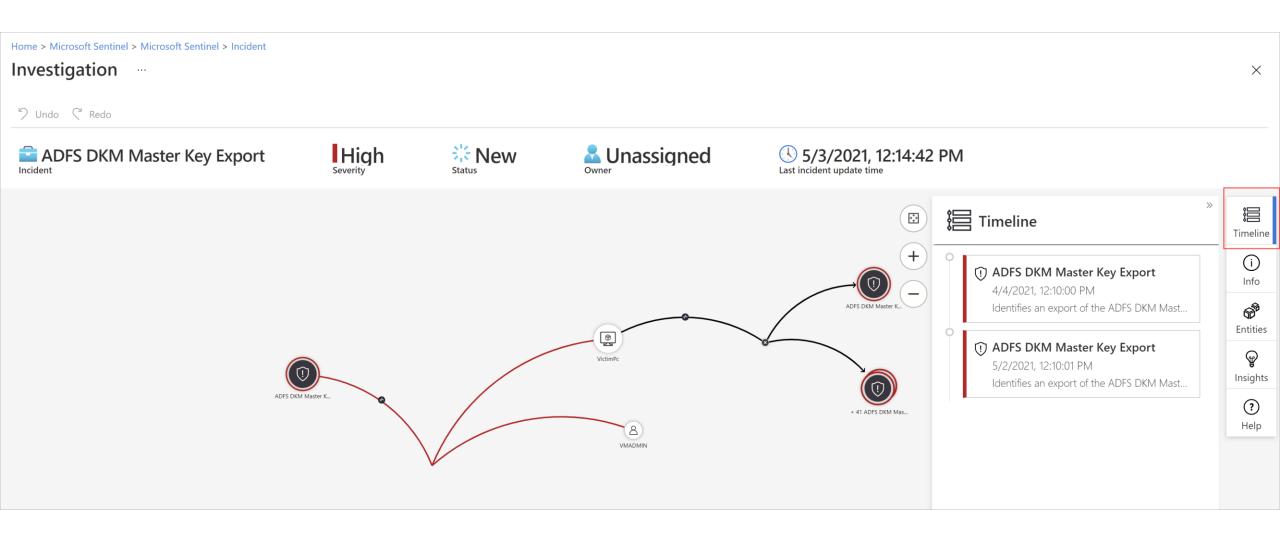
Correlate alerts into incidents by using analytics rules

Home > Microsoft Sentinel Microsoft Sentinel | Incidents \times Selected workspace: 'Contoso' 🖰 Refresh 🕔 Last 24 hours 🗸 🌣 Actions 🔀 Security efficiency workbook 📰 Columns 🧖 Guides & Feedback Search (Ctrl+/) General Open incidents by severity ₩ 400 - 403 Overview Open incidents New incidents Active incidents High (82) Medium (95) Low (207) Informational (19) 🟴 Logs Authentication Methods Changed for Privileged Acc... News & guides Search by ID, title, tags, owner or product Status: 2 selected Severity : All Product name: All Owner: All Incident ID: 203443 Search (Preview) Auto-refresh incidents Unassigned New ✓ High Owner Status Severity Threat management Severity ↑↓ Status ↑↓ Incident ID ↑↓ Title ↑↓ Product names Created time ↑↓ Incidents Description High Authentication Methods Change... Microsoft Sentinel New 203444 05/11/22, 12:52 PM Identifies authentication methods being changed for a privileged Workbooks account. This could be an indicated of an attacker adding an auth High Authentication Methods Change... 1 New 203443 Microsoft Sentinel 05/11/22, 12:49 PM method to the account so they can have continued access. Ref: Huntina https://docs.microsoft.com/azure/active-High User login from different countri... Microsoft Sentinel New 203440 05/11/22, 12:41 PM directory/fundamentals/security-operations-privileged-Notebooks accounts#things-to-monitor-1 High 05/11/22, 12:25 PM New 203437 Preview: User and IP address rec... Microsoft Defender fo... Entity behavior High 203436 Preview: Suspicious PowerShell c... 2 Microsoft Defender fo... 05/11/22, 12:23 PM Alert product names New · Microsoft Sentinel Threat intelligence High Preview: Network intrusion dete... Microsoft Defender fo... New 203435 05/11/22, 12:23 PM MITRE ATT&CK (Preview) Evidence High 203426 Preview: Multiple alerts possibly ... 5 Microsoft Defender fo... 05/11/22, 11:52 AM New -∿ 1 **u** 1 0 Content management High 203425 Preview: Multiple alerts possibly ... Microsoft Cloud App ... 05/11/22, 11:52 AM New Bookmarks Events Alerts Content hub (Preview) High 203424 Preview: Crypto-mining activity f... 2 Azure Defender, Azur... New 05/11/22, 11:52 AM Last update time Creation time Repositories (Preview) High New 203423 Impossible travel to atypical loca... 2 Azure Active Directory... 05/11/22, 11:52 AM 05/11/22, 12:50 PM 05/11/22, 12:49 PM Community High New 203421 Preview: Suspicious PowerShell c... 2 Azure Active Directory... 05/11/22, 11:51 AM Entities (2) High New 203422 Preview: Multiple alerts possibly ... Microsoft Defender fo... 05/11/22, 11:51 AM Configuration gbarnes@contoso.... 192.168.65.82 High 203420 Preview: Connection to web pag... Azure Defender, Micr... 05/11/22, 11:48 AM New Data connectors View full details > High Now 202/10 Authentication Methods Change Microsoft Sentinal 05/11/22 11:30 AM Analytics Tactics and techniques Watchlist 1 - 50< Previous Next > View full details Actions ∨ Automation

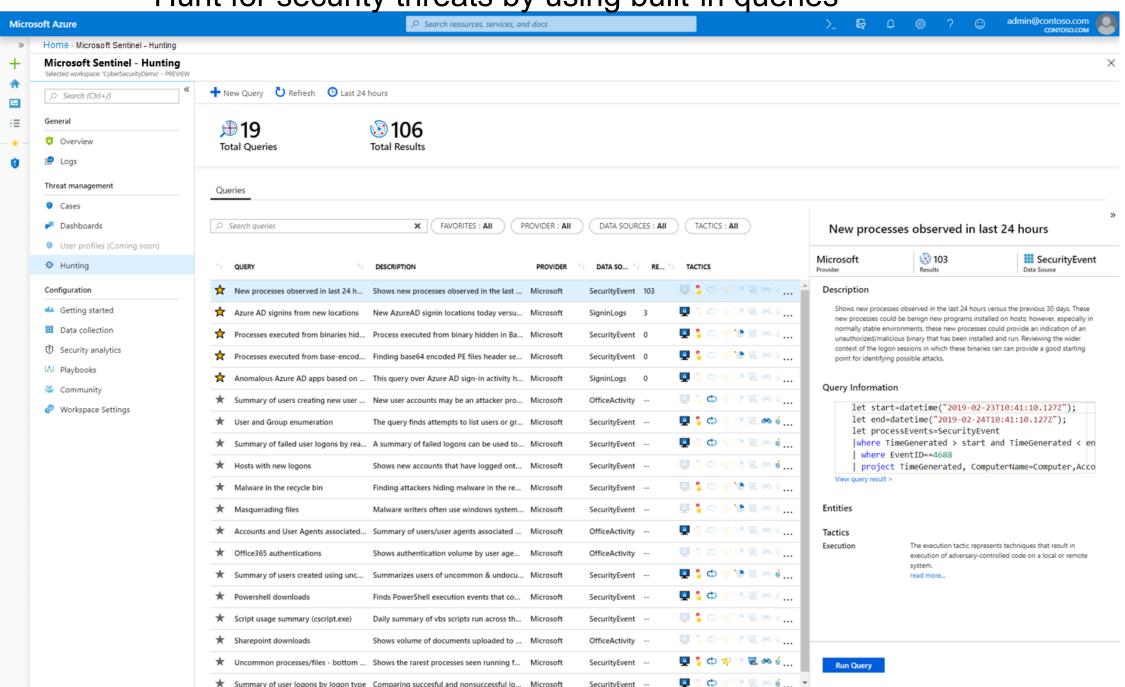
Automate and orchestrate common tasks by using playbooks



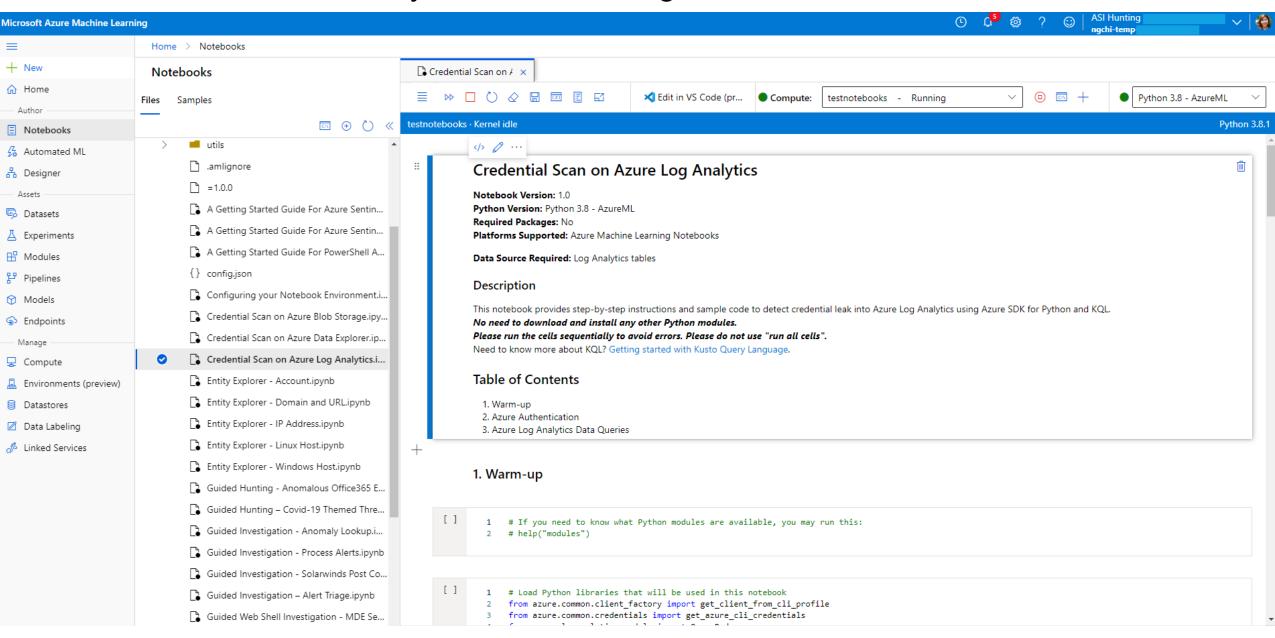
Investigate the scope and root cause of security threats



Hunt for security threats by using built-in queries



Enhance your threat hunting with notebooks



Download security content from the community

