

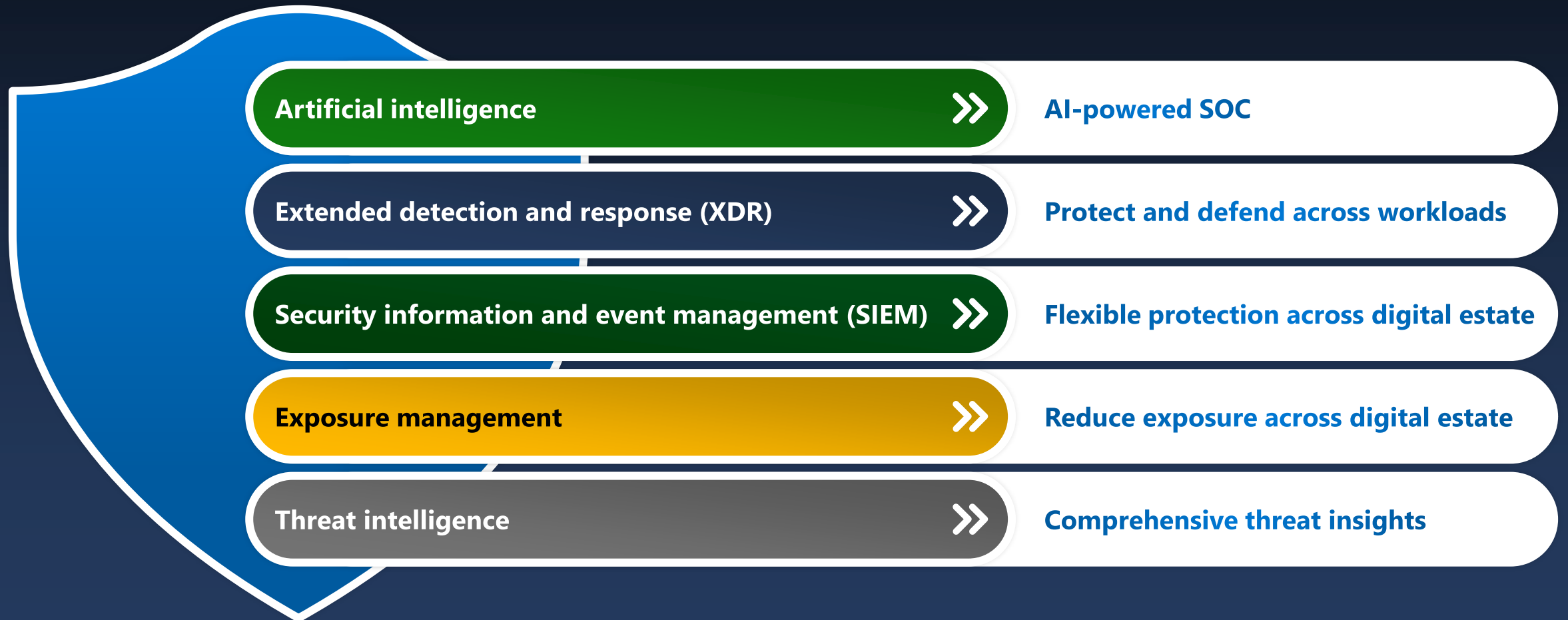
Microsoft's Unified Security Operations Platform

August 2024

Jeff Beckitt
Security Technology Specialist



Microsoft's unified security operations platform





[News](#) [Zero Trust](#) [Microsoft Entra](#) · 9 min read

Simplified Zero Trust security with the Microsoft Entra Suite and unified security operations platform, now generally available

By [Vasu Jakkal](#), Corporate Vice President, Security, Compliance, Identity, and Management
[Joy Chik](#), President, Identity & Network Access

July 11, 2024



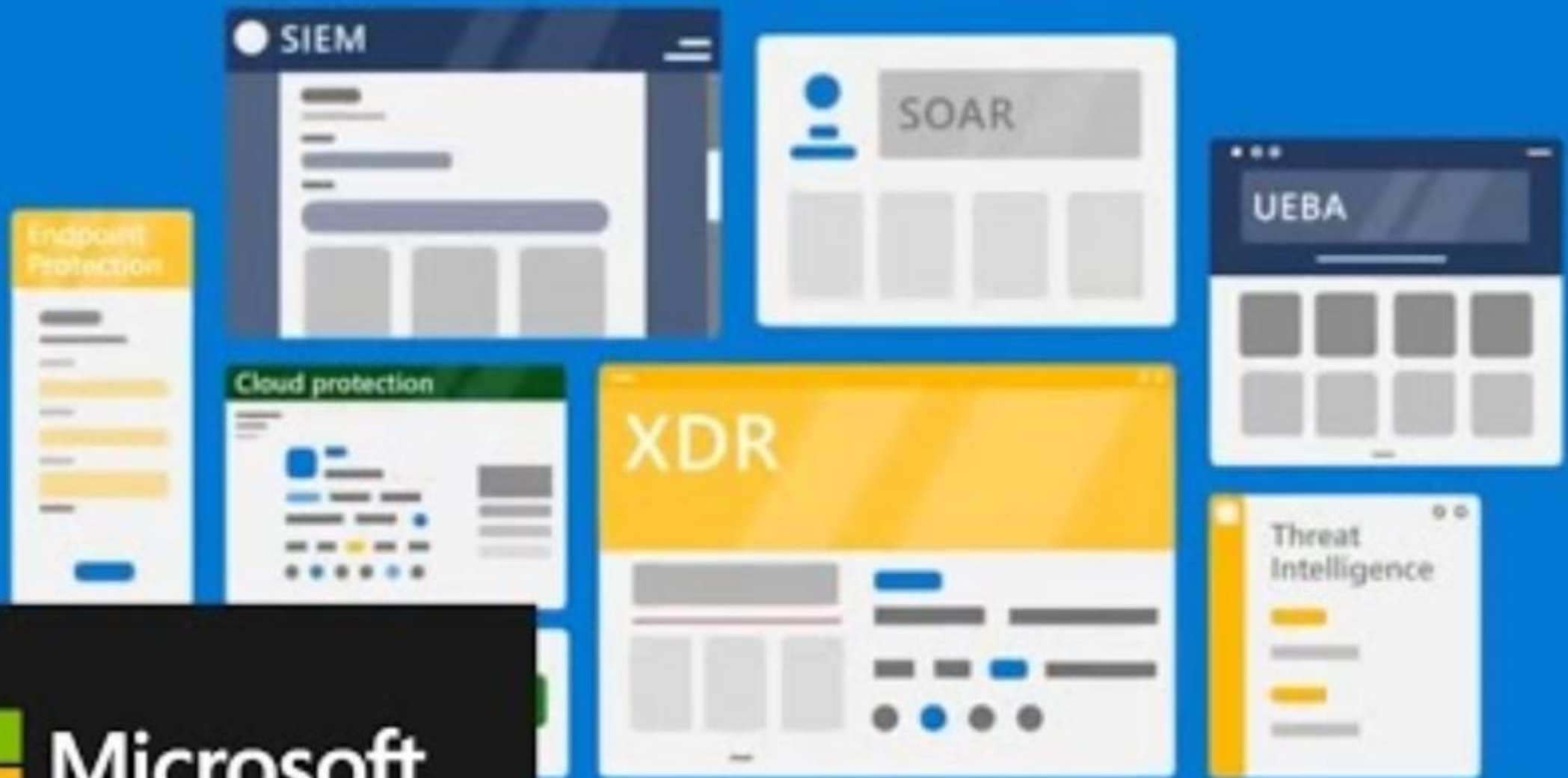
Microsoft Defender

Microsoft Defender XDR

Microsoft Entra ID Governance

[more](#) ▾

We're announcing new capabilities to help accelerate your transition to a Zero Trust security model with the general availability of the [Microsoft Entra Suite](#), the industry's most comprehensive secure access solution for the workforce, and the general availability of Microsoft Sentinel within the [Microsoft unified security operations platform](#), which delivers unified threat protection and posture management. These innovations make it easier to secure access, identify and close critical security gaps, detect cyberthreats, reduce response times, and streamline operations.



Microsoft

What is Microsoft's unified security operations platform?

It is...

A single experience for SIEM, XDR, XSPM, TI and Copilot for security

Unification of features across SIEM and XDR

Helping you bring SIEM & XDR together

It is not...

A product

A new SKU

Additional Cost

Pricing Isn't changing.

Two SKUs

- Customers purchase SIEM and XDR separately. Defender XDR continues to be licensed based, Microsoft Sentinel continues to be consumption based

Cost savings

- Customers do not need to ingest Defender XDR data into Microsoft Sentinel for hunting or investigations, potentially resulting in cost savings
- Ingestion still required for extended retention

What is happening to Microsoft Sentinel?

- The experience is going to be available in the Defender portal
- Customers can continue to access in Azure, even after onboarding
- Customers need to opt in to the single experience
- We continue to invest in innovation to Microsoft Sentinel

Unified security operations platform in the Defender Portal

Microsoft Copilot for Security

- › Step-by-step, incident-specific remediation guidance
- › Incident and event summary reports
- › Natural language translation to KQL
- › Script analysis
- › Knowledge transfer

Defender Experts

- › Managed detection and response
- › Incident response support
- › Proactive threat hunting

Analyst experience

- › Unified incidents and investigation
- › Unified response actions
- › Unified advanced hunting
- › Attack path modeling
- › Attack surface management
- › Critical asset protection
- › SOC optimization
- › Case management
- › Global search

Defense at machine speed

- › Automatic attack disruption
- › Deception technology
- › Automated self-healing

Security analytics

- › Correlation and normalization
- › UEBA
- › Unified data model
- › Customizable automation
- › Threat intelligence platform and analytics
- › Entity profiles

Data

300+ third-party solutions



- › Business applications
- › Microsoft integrations

- › Modern workplace
- › Industry standards

- › Cloud workloads
- › Users

- › Devices
- › Data storage

- › Infrastructure

Connecting the Sentinel workspace (1 of 2)

The screenshot shows the Microsoft Defender Configuration page. The main heading is "Choose a workspace". Below it, a red-bordered error message states: "Couldn't connect the workspace. Turn on the Defender XDR connector for incidents in Microsoft Sentinel first. Learn how". Below the error is a search bar with the placeholder "Filter for any field...". A table lists available workspaces:

| Name | Location | Resource Group |
|--|------------|----------------|
| <input checked="" type="checkbox"/> CyberSOC | westeurope | cybersoc-rg |

On the right, the "Settings" sidebar is visible, listing various settings. The "Microsoft Sentinel" setting at the bottom is highlighted with a red box.

Required Azure permissions to connect/disconnect:

Subscription owner or User Access Administrator *and* Sentinel Contributor

Scope: Subscription, resource group, or workspace resource for Microsoft Sentinel Contributor

Connecting the Sentinel workspace (2 of 2)

Prerequisites and permissions are in place

The screenshot shows the 'Settings' page for Microsoft Sentinel, specifically the 'Workspaces' section. On the left, under 'Microsoft Sentinel', the 'Workspaces' link is highlighted. On the right, there is a list of workspaces. The 'DG-SOC' workspace is selected, indicated by a blue checkmark. A modal dialog box is overlaid on the page, titled 'Connect DG-SOC?'. The dialog contains the following text:

Connect DG-SOC?

Only one workspace can be connected at this time.

What to expect when the workspace is connected

- Log tables, queries, and functions in the Microsoft Sentinel workspace will also be available in

Connected!
Connecting the workspace...

This change will only apply to incident creation rules for Microsoft alerts and not to other analytics rules.

- All alerts related to Microsoft Defender XDR products will be streamed directly from the main Microsoft Defender XDR data connector to ensure consistency. **Make sure you have incidents and alerts from this connector turned on in the workspace.**

At the bottom of the dialog, there are two buttons: 'Confirm and proceed' (highlighted with a red border) and 'Cancel'.

Work

Incidents - Microsoft Defender

https://security.microsoft.com/incidents?tid=0527ecb7-06fb-4769-b324-fd4a3bb865eb

Import favoritesDefenderSentinelDefender for CloudDemo Access

Microsoft Defender

Search

10 pending file quarantine actions need approval

Snooze for 1 hour

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Investigation & response

Incidents & alerts

Incidents

Alerts

Hunting

Actions & submissions

Partner catalog

Threat intelligence

Assets

Microsoft Sentinel

Identities

Endpoints

Email & collaboration

Incidents

The incident queue now displays incidents according to the latest automatic or manual updates made on incidents. For more information, see inci

Most recent incidents and alerts

Export

Search for name or ID

1 Week

Customize columns

Filter set: Save

Status: Active, In ProgressAlert severity: High, MediumIncident severity: High, MediumIncident assignment: AnyTags: Any

Entities: AnyAlert subscription IDs: AnyAdd filterReset allView less

| Incident name | Incident Id | Tags | Severity | Investigation state | Categories | Impact |
|--|-------------|-------------------|----------|------------------------|----------------------------------|--------|
| SAP financial process manipulation (attack disrupt... | 529 | BEC Fraud +3 | High | 2 investigation states | Initial access, Persistence, ... | Can |
| Suspicious authentication activity on one endpoint | 851 | | Medium | | Initial access | woc |
| Multi-stage incident involving Initial access & Lat... | 551 | Critical asset +5 | High | 5 investigation states | Initial access, Execution, Pe... | 3 D |
| Multi-stage incident involving Privilege escalation... | 751 | Brass Typhoon +7 | High | 4 investigation states | Execution, Persistence, Priv... | 3 D |
| BEC financial fraud attack was launched from a co... | 483 | BEC Fraud +4 | High | 3 investigation states | Initial access, Defense evas... | Lee |
| Multi-stage incident involving Initial access & Dis... | 466 | Backdoor +2 | Medium | 2 investigation states | Initial access, Execution, Pe... | vne |
| Suspicious scheduled task on one endpoint | 848 | | Medium | | Execution | cpc |
| Suspicious authentication activity on one endpoint | 849 | | Medium | | Initial access | alpi |

Work

Incidents - Microsoft Defender

https://security.microsoft.com/incidents?tid=0527ecb7-06fb-4769-b324-fd4a3bb865eb

Import favoritesDefenderSentinelDefender for CloudDemo Access

Microsoft Defender

Search

Reset filter

Export

Filter set: Save

Status: AnyAlert severity: AnyIncident severity: Any

Service/detection sources: Microsoft Defender for End... +2

Reset allView less

| Severity | Investigation state | Categories |
|---------------|------------------------|----------------------------------|
| High | 2 investigation states | Initial access, Persistence, ... |
| High | 4 investigation states | Initial access, Execution, Pe... |
| High | 5 investigation states | Initial access, Execution, Pe... |
| High | 4 investigation states | Execution, Persistence, Priv... |
| High | 3 investigation states | Initial access, Defense evas... |
| Medium | | Execution, Persistence |
| Medium | 2 investigation states | Initial access, Execution, Pe... |
| Medium | | Execution |
| Informational | | Suspicious activity |
| Informational | | Suspicious activity |
| Informational | | Suspicious activity |
| Informational | | Suspicious activity |

Service/detection sources

☐ Microsoft Defender for Identity

☐ Microsoft Defender for Cloud Apps

☒ Microsoft Defender for Endpoint

☒ Microsoft Defender XDR

☐ Microsoft Defender for Office 365

☐ App Governance

☐ AAD Identity Protection

☐ Microsoft Data Loss Prevention

☐ Microsoft Defender for Cloud

☒ Microsoft Sentinel

Apply

or ID

1 Week

Customize columns

ion IDs: Any

Add filter

| Service sources | Detection sources | Product n |
|--|-------------------------------|--|
| Microsoft Defender for Clo... | Microsoft Defender for Clo... | Microsoft |
| Endpoint, Identity, Microso... | EDR, Microsoft Defender t... | Microsoft |
| Endpoint, Identity, Microso... | EDR, Defender XDR, Micro... | Microsoft |
| Endpoint, Identity | EDR, Antivirus, Defender X... | Microsoft |
| Office 365, Defender XDR, ... | MDO, Defender XDR, AAD ... | Microsoft |
| vnevado-win10e.vnevado.alpineskihouse.co | 0/6 | EndpointEDRMicrosoft |
| vnevado-win10e.vnevado.alpineskihouse.co | 0/9 | EndpointEDRMicrosoft |
| cpc-u123-mcmlhu u123 | 2/2 | EndpointEDRMicrosoft |
| | 0/1 | Microsoft SentinelScheduled detectionMicrosoft |
| | 0/1 | Microsoft SentinelScheduled detectionMicrosoft |
| | 0/1 | Microsoft SentinelScheduled detectionMicrosoft |
| | 0/1 | Microsoft SentinelScheduled detectionMicrosoft |

Home

Exposure management

Investigation & response

Threat intelligence

Assets

Microsoft Sentinel

Identities

Endpoints

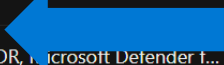
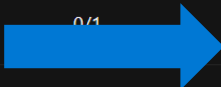
Email & collaboration

Cloud apps

Operational technology

Site security

SOC optimization



Work

Advanced hunting - Microsoft D...

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https://security.microsoft.com/v2/advanced-hunting?tid=0527ecb7-06fb-4769-b324-fd4a3bb865eb

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Demo Access

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Advanced hunting

New query

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DeviceNetworkInfo

DeviceProcessEvents

DeviceRegistryEvents

Defender Vulnerability Management

DeviceBaselineComplian...

DeviceBaselineComplian...

DeviceBaselineComplian...

DeviceTvmBrowserExtens...

DeviceTvmBrowserExtens...

DeviceTvmCertificateInfo

DeviceTvmHardwareFirm...

DeviceTvmInfoGathering

DeviceTvmInfoGathering...

DeviceTvmSecureConfig...

DeviceTvmSecureConfig...

DeviceTvmSoftwareFide...

Run query

Last 24 hours

Save

Share link

Manage rules

Query

1

Getting started

Results

Query history

0 items

Search

Customize columns

Time ↓

Query

Query time

State

No data available

Work

Advanced hunting - Microsoft D...

https://security.microsoft.com/v2/advanced-hunting?tid=0527ecb7-06fb-4769-b324-fd4a3bb865eb

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New query

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SQLAssessmentRecomm...
VMBoundPort
VMComputer
VMConnection
VMProcess

Microsoft Sentinel

Anomalies
ASimAuditEventLogs
ASimAuthenticationEven...
ASimDhcpEventLogs
ASimDnsActivityLogs
ASimFileEventLogs
ASimNetworkSessionLogs
ASimProcessEventLogs
ASimRegistryEventLogs
ASimUserManagementA...

Run queryLast 24 hoursSaveShare linkManage rules

Query

Getting startedResultsQuery history

0 itemsSearchCustomize columns

Time

Query

Query time

State

No data available

Work

Workbooks - Microsoft Defender

+

←

↺

https://security.microsoft.com/sentinel/99005f96-e572-4035-b476-836fd9d83d64/cybersoc/CyberSOC/workbooks?tid=0527ecb7-06fb-4769-b324-fd4a3bb865eb

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🔗 Import favorites


🛡 Defender

🔵 Sentinel

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Configuration

Data connectors

Analytics

Summary Rules

Watchlist

Automation

Identities

Workbooks

Refresh

Guides

My workbooks4

Templates27

Updates0

More content at Content hub

My workbooks

Templates

+ Add Workbook

🔍 Search

Add filter

| Name | Content source | Source name |
|--|----------------|--------------------|
| Azure DDoS Protection Workbook | Content hub | Azure DDoS Prot... |
| Azure Firewall Structured Logs | Content hub | Azure Firewall |
| Microsoft Web Application Firewall (WAF) - Azure WAF | Content hub | Azure Web Appli... |
| Web Session Essentials Workbook | Content hub | Web Session Ess... |

+

No workbook selected
Select workbook to view more details

What's in it for customers?

| More manageable products | Better hunting capabilities | Improve response and protection |
|--|---|---|
| Microsoft Sentinel has a new home in Defender Portal, resulting in one place to manage all their SOC products. | Customers benefit from one place to create queries and search across their data | Automatic attack disruption expanded to 3 rd parties, starting with SAP, more comprehensive incident experience |
| Cost savings | Analyst experience | Reduction in incident queue |
| Customers do not need to ingest their Defender XDR data into Microsoft Sentinel to correlate alerts or hunt | Less portal switching, better incident correlation | Improvement in how Defender XDR data is correlated with Sentinel logs reduces the incident queue and delivers more robust insights. |

Before: investigations often required two portals

The screenshot shows the Microsoft Azure portal interface for an incident titled "Honeytoken authentication activity on one endpoint" (Incident number 7175). The left sidebar contains navigation options: "Investigate in Microsoft Defender XDR" (highlighted with a red box), "Workspace name cybersoc", "Description --", "Alert product names" (listing "Microsoft Defender for Identity"), "Tasks" (0/1 completed), and "Evidence". The main content area shows the incident timeline with a single entry: "Jun 17 08:56:48 Honeytoken authentication acti... Me... Detected by Microsoft ...". The right sidebar shows "Entities" (AVORIAZ-Win10V Host, AVORIAZ-DC Host) and "Similar incidents".

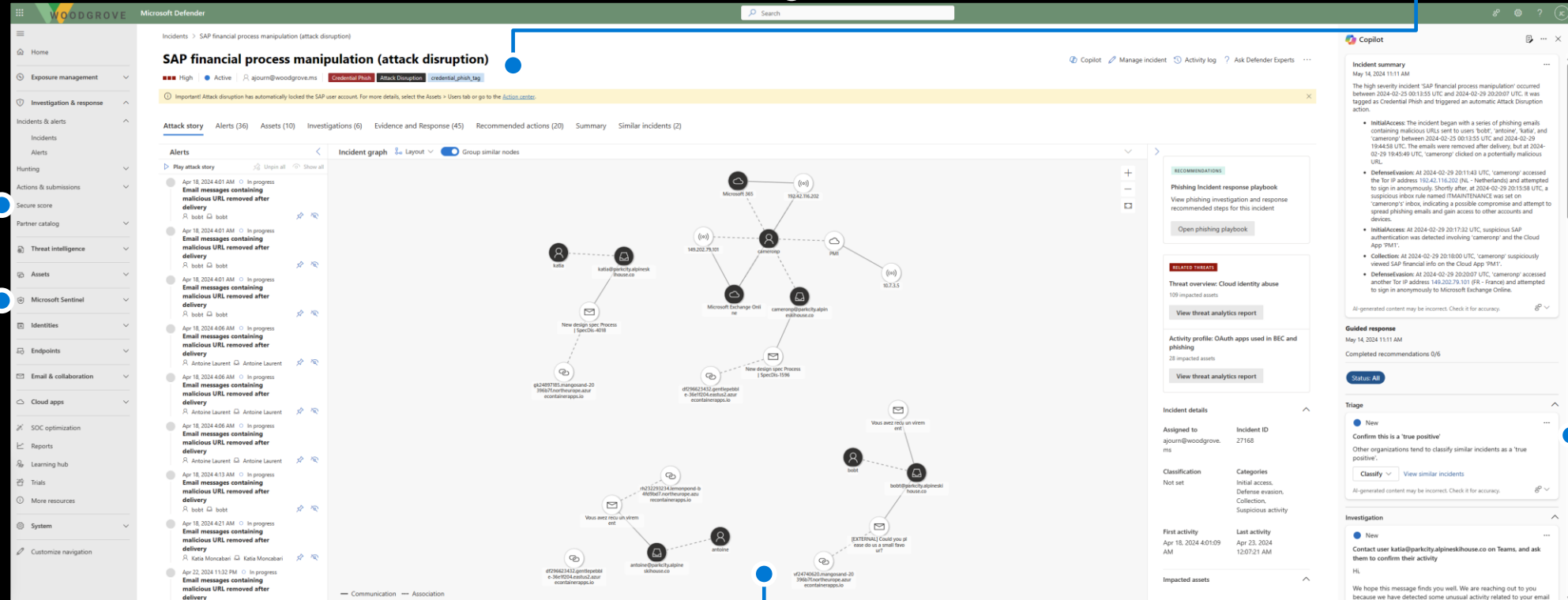
The screenshot shows the Microsoft Defender XDR portal interface for the same incident. The top navigation bar includes "Incidents > Honeytoken authentication activity on one endpoint". The main content area features an "Incident graph" showing a network diagram with nodes for "AVORIAZ-Win10V", "AVORIAZ-DC", and "jeff Disabled". The right sidebar contains "Incident details" (Assigned to: Unassigned, Incident ID: 3256, Classification: Not set, Categories: Discovery, First activity: Jun 17, 2024 8:56:48 AM, Last activity: Jun 17, 2024 8:57:00 AM) and "Impacted assets" (Devices (1): vm000001, Risk Level: None, Exposure: Low). The bottom of the sidebar shows "Users (1)" with a user ID: 29a26039-3456-4b02-82c7-0e9ed1859e7.

Now: A single view

Exposure management

Comprehensive incident view

Microsoft Sentinel data



SIEM and XDR workloads

Single attack map

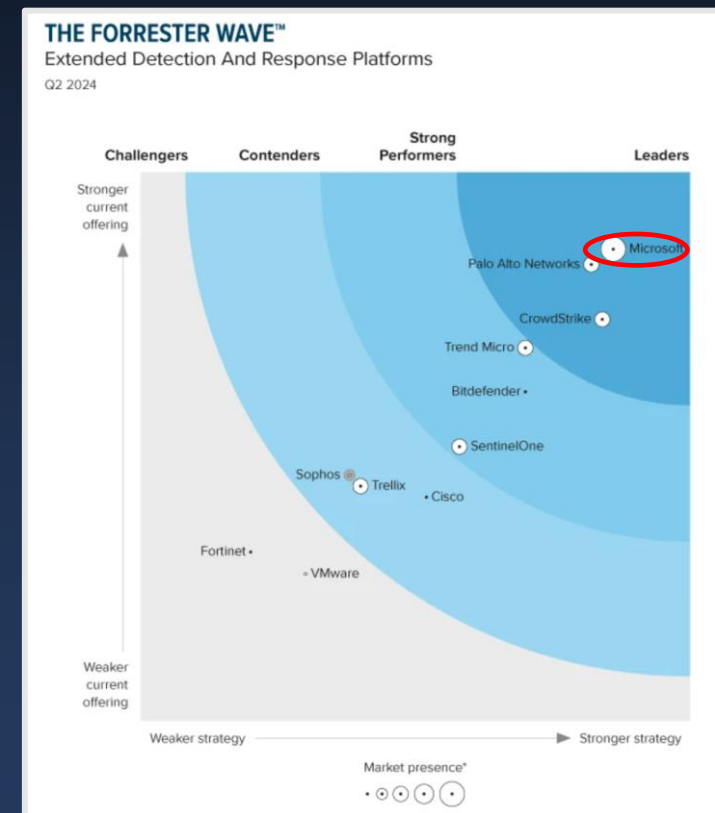
Embedded GenAI

Microsoft is the only vendor with leading SIEM+XDR

Microsoft is named as a Leader in the
2024 Gartner SIEM MQ



Microsoft is again named a leader in the
Forrester Wave for XDR CY2024, Q2



Who else claims to have a security operations platform?



splunk>



Cisco | Splunk

Core Components SIEM, XDR, GenAI

Current offering:

Cisco plans to further integrate XDR, SIEM & GenAI to provide a unified platform for customers. This is a short to mid-term strategy that Cisco is working on and it's currently immature. Cisco is attempting to package natural language search in it's products with Cisco AI Assist.

Areas Microsoft differentiates:

- Mature XDR and recognized leader over Cisco XDR and several individual categories
- Leading in AI and innovation
- Cisco has low market penetration for XDR

Google Cloud

Core Components SIEM, Cloud Security, TI, GenAI

Current offering:

Ties together SIEM, SOAR, TI, and cloud security powered by AI into a unified experience. Google lacks an XDR and tries to compensate for this leveraging Mandiant services.

Areas Microsoft differentiates:

- Microsoft has an industry leading XDR experience in our unified platform.
- Google does not have an XDR.

Palo Alto Networks

Core Components SIEM, XDR, Cloud Security, Network, GenAI

Current offering:

Palo Alto Networks is attempting to bring together the Strata, Prisma, and Cortex into a single experience and powering this with generative AI. Currently the 3 platforms are still separate and requires context switching even within 1st party.

Areas Microsoft differentiates:

- Microsoft has built a 1st party platform with strong integration. Palo Alto Networks has acquired many of its capabilities and still working on integration experience

CrowdStrike

Core Components SIEM, XDR, Data Security, TI, Cloud Security, ITDR, GenAI

Current offering:

CrowdStrike tells customers it's the unified platform with a single agent. Although CrowdStrike competes across several categories across security, endpoint is still it's core offering but is investing in identity, data protection, cloud security, SIEM, and generative AI.

Areas Microsoft differentiates:

- Microsoft's XDR is viewed by Forrester as a stronger strategy and larger market penetration.
- Microsoft is a leader across several protection categories within XDR. Including endpoint

- Microsoft is forcing the market to change through increased investments or purchasing/merging with other companies in efforts to catch-up.
- Microsoft is the only company on the list that has built it's platform natively, as opposed to attempting to stitch individual acquisitions together into the ecosystem

Available Material

- GA Announcement Blog published July 11 :<https://aka.ms/ZeroTrustBlog-July2024>
- MS Learn Documentation: <https://aka.ms/onboard-microsoft-sentinel>
- Microsoft Mechanics video: [Microsoft Defender XDR, Copilot for Security & Microsoft Sentinel now in one portal](#)
- AMA: [Microsoft SIEM & XDR: unified security operations](#)
- Webinar: [What's New in Microsoft Sentinel & Unified Portal Enhancements](#)
- Virtual Ninja Training - [Unifying SIEM & XDR: a new era in SecOps](#)
- Get started with the general availability of [Microsoft Sentinel in the Defender Portal](#) with some helpful FAQs.
- Manually deploy playbooks in the [unified experience](#).

SOC Optimisation



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Microsoft Entra Suite Tech Accelerator

Aug 14 2024, 07:00 AM - 09:30 AM (PDT) Microsoft Tech Community

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SOC optimization: unlock the power of precision-driven security management

By  [Michal Shechter](#)

Published May 06 2024 09:07 AM

9,271 Views



Security operations center (SOC) teams actively look for opportunities to optimize both processes and outcomes. Every organization is unique, with its own security challenges. Teams must regularly adjust security controls to keep up with changing threat landscape and business priorities, while balancing investment (cost, SOC resources, time) and security coverage.

Today, we're happy to announce the public preview of a new experience and API – Microsoft Sentinel's SOC Optimization, designed to empower security teams with precision-driven management capabilities. SOC optimization offers **actionable tailored recommendations** that adapt daily to the organization's environment – starting with gaps in data utilization and detection of different types of attacks . These aren't generic tips; they're personalized strategies backed

Co-Authors



[Michal Shechter](#)

Version history

Last update: May 06 2024 01:02 AM

Updated by: [Michal Shechter](#)

Share



SOC optimization

Overview

Completed

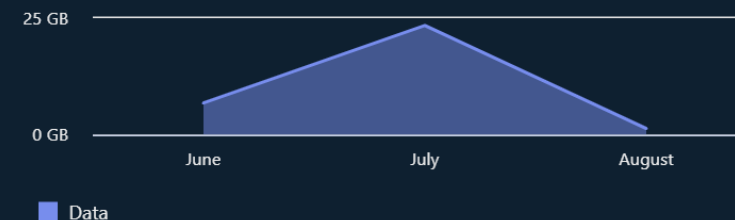
Dismissed

Your optimizations data

Recent optimizations value

- ✔ Utilized SquidProxy_CL table and improved your SOC coverage.

Data ingested



Threat-based coverage optimizations ⓘ

AiTM (Adversary in the Middle)
Medium | 39/64 Recommended detections

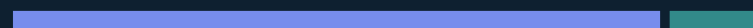
BEC (Financial Fraud)
High | 40/52 Recommended detections

BEC (Mass Credential Harvest)
High | 75/97 Recommended detections

[View all threat scenarios](#)

Optimizations status

| | | | |
|--------|-------------|-----------|-----------|
| Active | In progress | Completed | Dismissed |
| 32 | 0 | 5 | 0 |



Data connectors

Analytics

Summary Rules

Watchlist

Automation

Identities


Endpoints

✉ Email & collaboration

Cloud apps

 Operational technology

Site security

 SOC optimization Reports Learning hub Trials

 More resources

Questions



For a copy of today's slides, go to this link
<https://aka.ms/snackables-unified-soc>

