SYNERGY ADVISORS

# Synergy Advisors - Copilot for Security Hands-On-Lab [HOL]

A Next-Gen AI-Powered Security Solution for Enhanced Efficiency and Capabilities of defenders to improve security outcomes at machine speed and scale.

## The odds are against today's security analysts

In today's digital age, cybersecurity is crucial. Our digital defenses are constantly tested by password attacks, phishing e-mails, and a shortage of skilled professionals. Protecting our digital assets has become a top priority for individuals, businesses, and governments.

**4,000**

...Password attacks per second tests the fortitude of our digital defenses

**72 mins**

...Median time for an attacker to access your private data if you fall victim to a phishing e-mail

**3.5M**

...Global shortage of skilled cybersecurity professionals

## Defenders urgently require a fresh approach to address evolving cybersecurity challenges

In the rapidly evolving digital landscape, the realm of cybersecurity stands as a crucial bastion against a barrage of threats. However, despite advancements in technology and strategies, defenders find themselves facing a myriad of challenges. Defenders need a new way to tackle new threats:

### Disconnected processes

Current disjointed processes can result in gaps in threat detection and response, necessitating streamlined and integrated workflows to enhance overall security effectiveness.

### Complex toolset

The complexity of existing cybersecurity tools makes it challenging for organizations to manage and maintain their security posture efficiently. Simplifying toolsets or providing better integration options can alleviate this burden.

### Shortage of talent and expertise

A lack of skilled cybersecurity professionals may hinder organizations' ability to identify and respond to threats promptly. Investing in training and development programs can help bridge this gap.

### Posture drift

Changes in the cybersecurity landscape can lead to posture drift, where outdated security controls or lack of regular reviews leave organizations vulnerable. Implementing regular assessments and proactive monitoring can mitigate this risk.

### Inefficient collaboration

Collaboration inefficiencies can cause delays in threat detection and response efforts. Improving communication channels and fostering a culture of collaboration can enhance overall response capabilities.

### Sophisticated attack techniques

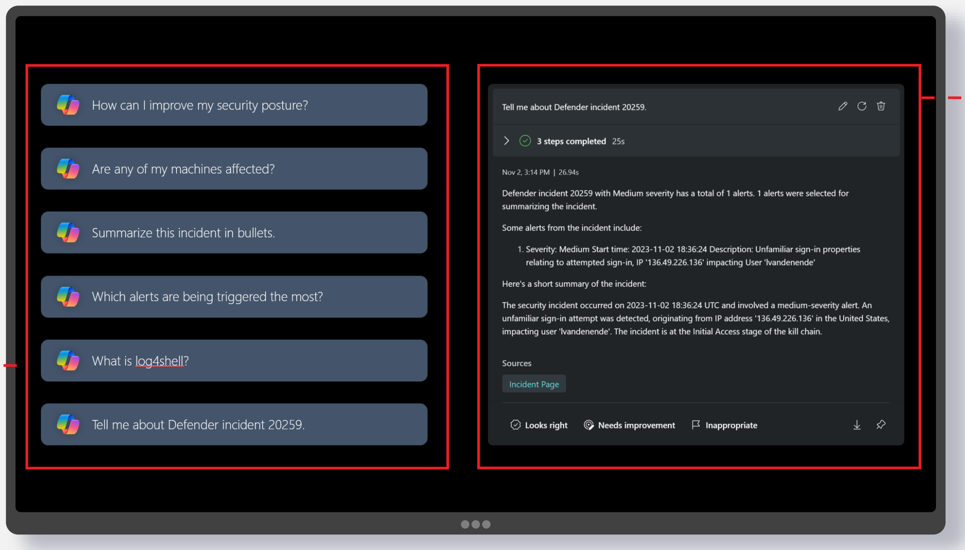
Cyber adversaries continually evolve their tactics, making it challenging for organizations to keep up. Investing in advanced detection and response capabilities can help organizations better defend against these evolving threats.

# Introducing Microsoft Copilot for Security

This pioneering and generative AI security product is designed to empower security and IT teams to defend the organization at unprecedented machine speed and scale. Elevating the efficiency and capabilities of defenders, Microsoft Copilot for Security enhances security outcomes and upholds a commitment to responsible AI principles, ensuring a comprehensive and compliant approach to digital defense.

## How does Copilot for Security work?

Microsoft Copilot for Security enhances security capabilities through both standalone and embedded experiences within various Microsoft security products. The integration of foundational language models and proprietary Microsoft technologies forms a cohesive system that boosts defenders' efficiency and expands their capabilities, ultimately elevating security outcomes at machine speed and scale.



- How can I improve my security posture?
- Are any of my machines affected?
- Summarize this incident in bullets.
- Which alerts are being triggered the most?
- What is log4shell?
- Tell me about Defender incident 20259.

Tell me about Defender incident 20259.

3 steps completed 25s

Nov 2, 3:14 PM | 26.94s

Defender incident 20259 with Medium severity has a total of 1 alerts. 1 alerts were selected for summarizing the incident.

Some alerts from the incident include:

1. Severity: Medium Start time: 2023-11-02 18:36:24 Description: Unfamiliar sign-in properties relating to attempted sign-in, IP '136.49.226.136' impacting User 'lvandenende'

Here's a short summary of the incident:

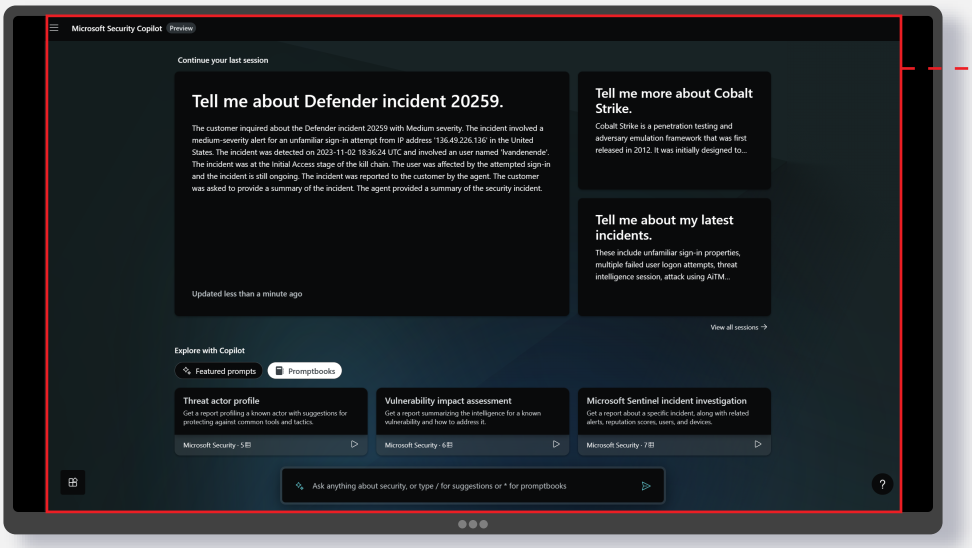
The security incident occurred on 2023-11-02 18:36:24 UTC and involved a medium-severity alert. An unfamiliar sign-in attempt was detected, originating from IP address '136.49.226.136' in the United States, impacting user 'lvandenende'. The incident is at the Initial Access stage of the kill chain.

Sources

Incident Page

Here you will find a variety of questions, all in natural language, which are just examples of what Copilot for Security could provide a response to.

You'll find Copilot for Security's response: It includes the start time, IP, and user involved. The incident is noted to be in the initial access stage of the eradication chain, all summarized in a single, natural language message.



Continue your last session

**Tell me about Defender incident 20259.**

The customer inquired about the Defender incident 20259 with Medium severity. The incident involved a medium-severity alert for an unfamiliar sign-in attempt from IP address '136.49.226.136' in the United States. The incident was detected on 2023-11-02 18:36:24 UTC and involved an user named 'lvandenende'. The incident was at the Initial Access stage of the kill chain. The user was affected by the attempted sign-in and the incident is still ongoing. The incident was reported to the customer by the agent. The customer was asked to provide a summary of the incident. The agent provided a summary of the security incident.

Updated less than a minute ago

**Tell me more about Cobalt Strike.**

Cobalt Strike is a penetration testing and adversary emulation framework that was first released in 2012. It was initially designed to...

**Tell me about my latest incidents.**

These include unfamiliar sign-in properties, multiple failed user logon attempts, threat intelligence session, attack using AiTM...

View all sessions →

Explore with Copilot

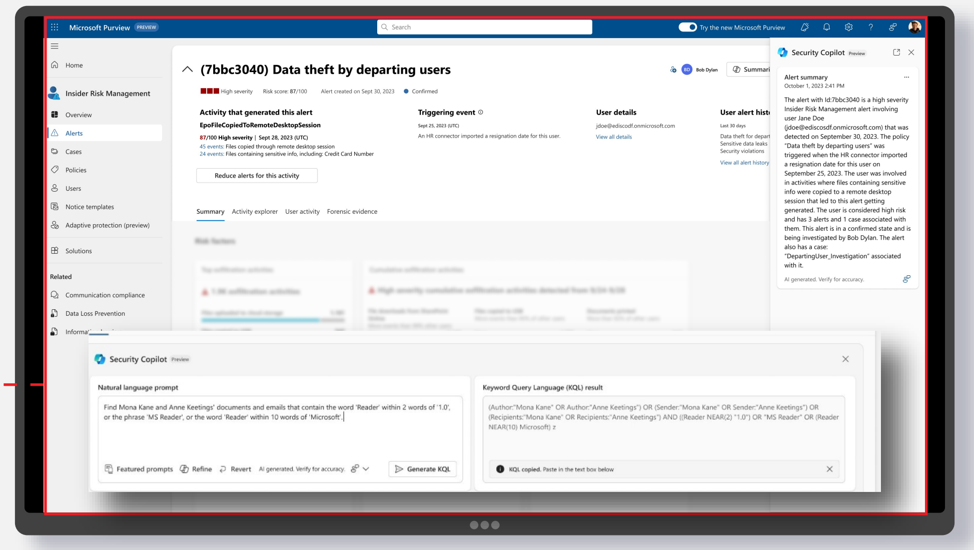
**Threat actor profile**
Get a report profiling a known actor with suggestions for protecting against common tools and tactics.
Microsoft Security · 5

**Vulnerability impact assessment**
Get a report summarizing the intelligence for a known vulnerability and how to address it.
Microsoft Security · 6

**Microsoft Sentinel incident investigation**
Get a report about a specific incident, along with related alerts, reputation scores, users, and devices.
Microsoft Security · 7

Ask anything about security, or type / for suggestions or * for promptbooks

**Standalone:** Helps teams gain a broader context to troubleshoot and remediate incidents faster within Copilot for Security itself, with all use cases in one place, enabling enriched cross-product guidance.



**(7bbc3040) Data theft by departing users**

High severity   Risk score: 87/100   Alert created on Sept 30, 2023   Confirmed

Bob Dylan   Summari

**Activity that generated this alert**
**EpoFileCopiedToRemoteDesktopSession**
87/100 High severity | Sept 28, 2023 (UTC)
45 events: Files copied through remote desktop session
24 events: Files containing sensitive info, including: Credit Card Number

Reduce alerts for this activity

**Triggering event**
Sept 25, 2023 (UTC)
An HR connector imported a resignation date for this user.

**User details**
jdoe@ediscodf.onmicrosoft.com
View all details

**User alert hist**
Last 30 days
Data theft for depart
Sensitive data leaks
Security violations
View all alert history

Security Copilot Preview

Alert summary
October 1, 2023 2:41 PM

The alert with Id:7bbc3040 is a high severity Insider Risk Management alert involving user Jane Doe (jdoe@ediscosdf.onmicrosoft.com) that was detected on September 30, 2023. The policy "Data theft by departing users" was triggered when the HR connector imported a resignation date for this user on September 25, 2023. The user was involved in activities where files containing sensitive info were copied to a remote desktop session that led to this alert getting generated. The user is considered high risk and has 3 alerts and 1 case associated with them. This alert is in a confirmed state and is being investigated by Bob Dylan. The alert also has a case: "DepartingUser_Investigation" associated with it.

AI generated. Verify for accuracy.

Security Copilot Preview

Natural language prompt

Find Mona Kane and Anne Keetings' documents and emails that contain the word 'Reader' within 2 words of '1.0', or the phrase 'MS Reader', or the word 'Reader' within 10 words of 'Microsoft'.

AI generated. Verify for accuracy.

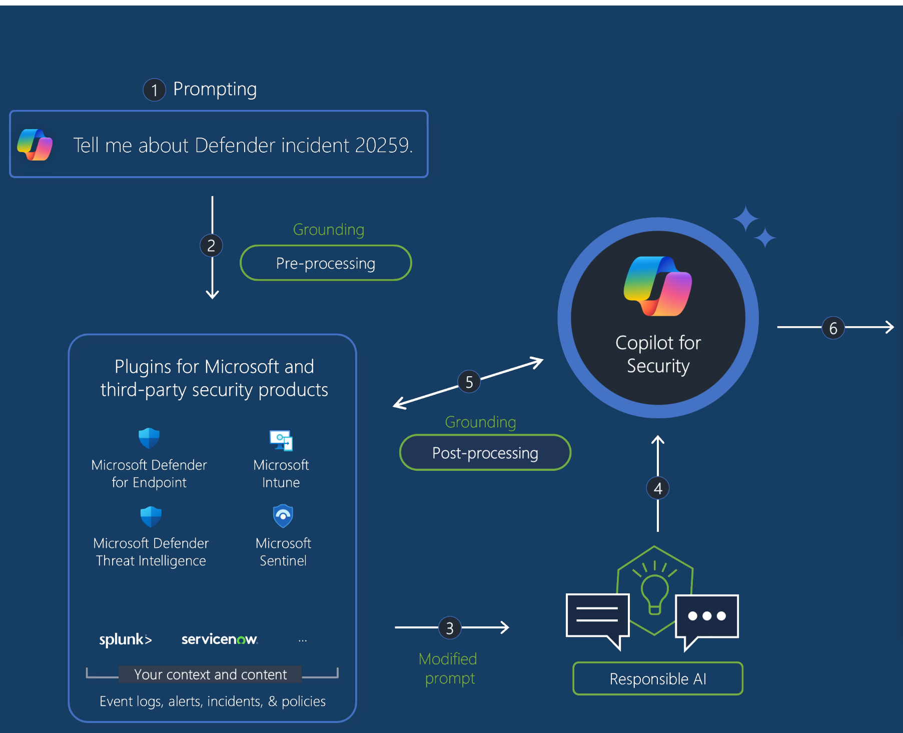
Keyword Query Language (KQL) result

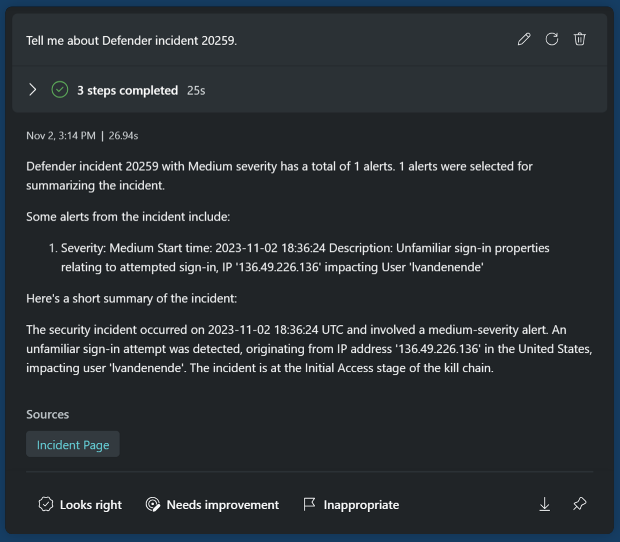
```
(Author:"Mona Kane" OR Author:"Anne Keetings") OR (Sender:"Mona Kane" OR Sender:"Anne Keetings") OR (Recipients:"Mona Kane" OR Recipients:"Anne Keetings") AND ((Reader NEAR(2) "1.0") OR "MS Reader" OR (Reader NEAR(10) Microsoft) z
```

KQL copied. Paste in the text box below

**Embedded:** Offers the intuitive experience of getting Security Copilot guidance natively within the products that your team members already work from and are familiar with.

## Data Flow Architecture - Copilot for Security


1 Prompting
Tell me about Defender incident 20259.
2
Grounding
Pre-processing
Plugins for Microsoft and third-party security products
Microsoft Defender for Endpoint
Microsoft Intune
Microsoft Defender Threat Intelligence
Microsoft Sentinel
splunk>
servicenow
...
Your context and content
Event logs, alerts, incidents, & policies
3
Modified prompt
5
Grounding
Post-processing
Copilot for Security
4
Responsible AI
6



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Sources

*1. User prompts from security products are sent to Copilot*

*2. Copilot accesses plugins for pre-processing*

*3. Copilot sends modified prompt to LLM*

*4. Copilot receives LLM response*

*5. Copilot accesses plugins for post-processing*

*6. Copilot sends the response, and app command back to security products*

## Unlocking Security Excellence: Copilot for Security Value Proposition

### Automated Repetitive Tasks

Automates repetitive tasks such as alert classification, threat investigation, and incident response. This frees up security analysts' time to focus on more strategic and high-value tasks.

### Faster Threat Detection and Response

Leveraging AI, Copilot for Security detects and responds to threats faster and more accurately than humans. This can help organizations reduce incident response times and minimize the impact of threats.

### Enhanced Visibility and Situational Awareness

Provides security teams with a unified view of all threats and vulnerabilities in their environment. This helps improve their understanding of the threat landscape and make more informed decisions on how to protect their organization.

### Reduction in Security Costs

Can assist organizations in reducing security costs by automating tasks, improving efficiency, and reducing incident response times.

### Regulatory Compliance

Copilot for Security aids organizations in complying with security and privacy standards by automating compliance tasks and detecting potential violations.

# Optimized SecOps leveraging Microsoft Copilot for Security

Step into the realm of advanced cybersecurity with our hybrid **Hands-On-Lab [HOL]** experience, where we delve deep into the transformative capabilities of Microsoft Copilot for Security. Join us as we embark on a journey to revolutionize your SecOps strategy through the power of AI-driven insights and recommendations.

## By participating in this Hands-On-Lab, you will...

- Gain a deep understanding of Microsoft Copilot for Security and its role in revolutionizing SecOps.
- Learn how to swiftly respond to cybersecurity threats and assess risk exposure with machine speed.
- Explore practical scenarios to analyze risks, incidents, and false positives using Copilot's Gen-AI technology.
- Maximize Microsoft Copilot's potential by using its automation capabilities to execute multiple tasks (promptbooks) and send alerts to your SOC team based on Gen-AI analysis.

## Hands-On-Lab Phases - [3-4 Hours]

### Introduction to Microsoft Copilot for Security

Understand the fundamentals of Copilot and the evolving cybersecurity threat landscape:

Microsoft Copilot fundamentals

- AI concepts
- Prompt engineering
- Promptbooks
- Automation (overview)
- Pricing and usage monitoring

### Hands-on-lab Overview

We begin the technical discussion by reviewing a lab diagram and presenting various incidents that participants can select to experience the capabilities of Microsoft Copilot for Security.

### Explore Scenarios (Up to two)

- Demystifying Script analysis using Microsoft Copilot for Security
- Reduce false positives analysis Microsoft Copilot for Security
- Mitigating user risk at the front door using Microsoft Copilot for Security and Microsoft Entra
- Optimized device compliance troubleshooting

### Maximize Copilot's Automation Capabilities

- Maximize the potential of Microsoft Copilot by leveraging its automation capabilities to execute multiple tasks (promptbooks) and send alerts and notifications to your SOC team based on Gen-AI analysis.
- Leverage knowledge bases to enrich prompts and provide additional context

## Maximizing value with Microsoft Security solutions

### Microsoft Sentinel

Collect security data and correlate alerts from virtually any source with intelligent security analytics.

### Microsoft Defender XDR

Prevent and detect cross-domain cyberattacks at the speed of AI. Copilot for Security is now embedded in Microsoft Defender XDR for early access customers.

### Microsoft Intune

Mitigate cyberthreats to devices, protect data, and improve compliance across clouds—now embedded with Copilot for Security for early access customers.

### Microsoft Defender Threat Intelligence

Understand cyberthreats and expose suspicious infrastructure with dynamic threat intelligence, now included in Copilot for Security at no additional cost.

### Microsoft Entra

Efficiently manage, safeguard, and govern identities and access, covering user administration, threat detection, access control, and compliance with security standards for cloud-based resources.

## Additional information

- This HOL is tailored for technical decision makers, and IT professionals interested in enhancing their SecOps capabilities.
- Experience in managing Microsoft 365/Azure Security solutions for cybersecurity incident management scenarios.
- Participants will have hands-on experience with real-world scenarios and practical exercises.
- Technical support and guidance will be provided throughout the HOL session.

**Contact Us** for more information about the '**Synergy Advisors' Copilot for Security Hands-on-lab**' or our **Consulting Services**:

LEARN MORE

If you want to take your organization's security and compliance posture to the next level, if you are taking your first steps and want to quickly assess this technology as you progress along your path, we offer the following options:

### Architecture Design Sessions [ADS]

The Copilot for Security ADS is a 1.5 to 2-day workshop involving key stakeholders. It focuses on designing, operating, and implementing Copilot for Security, including knowledge transfer on best practices, and understanding your current environment to identify requirements. Additionally, it offers insights into common scenarios and unique use cases. LEARN MORE

### Proof of Concept [PoC]

The Copilot for Security PoC provides a streamlined approach to evaluating and demonstrating the capabilities of the solution within your organization. This (PoC) includes all necessary components, tools, and resources required to conduct a comprehensive assessment and showcase the functionality of Copilot for Security. LEARN MORE

### Pilot

The Copilot for Security Engagement is a high-level session to prepare your organization for Copilot deployment. It involves evaluating readiness, reviewing usage and integration, validating use cases, implementing scenarios, configuring plug-ins, and providing knowledge transfer sessions on best practices. LEARN MORE

## Why choose Synergy Advisors as your strategic partner?

### Consulting Services

**+12 years, +100 Top customers, and, with specializations in Security, Modern Work, Azure Data & AI, and Azure Infrastructure**

We support our customers in the correct implementation of Microsoft solutions, aimed at improving their security postures and Modern Work, accompanied by a strategy that seeks to increase the adoption of these technologies and generate more upsell and cross-sell projects.

### Managed Services

Leverage cybersecurity experts to review and monitor organizations' Microsoft 365 and Azure infrastructure and security. In-depth assessments of cloud applications, deployments as we help draft prioritized plans for improvements based on organizations unique security goals. Highly trained staff who monitor end-user activity through robust log analysis to provide you reliable monitoring, proactive and reactive incident response, and troubleshooting

### Solutions (E-Suite)

Synergy Advisors' E-Suite seamlessly integrates various products with Microsoft 365, extending its features to address common advanced use cases encountered in organizations we've partnered with.

- E-Visor
- E-Visor Teams App
- E-Inspector
- E-Cryptor
- E-Vigilant
- E-Migrator

Contact us for more information **HERE**

Let's talk about your data compliance needs:
**copilotforsecurity@synergyadvisors.biz**