

Enhance your SOC team capabilities with Microsoft Copilot for Security

Mario Cuomo























who am I



- Mario Cuomo
- Cloud solution architect
 Security Tech Strategy team
- based in Rome, 26 years old
- focusing on XDR + SIEM solutions



Agenda







Microsoft Copilot for Security

the first generative AI security product that empowers IT Operations and SOC analysts to defend their organizations at machine speed and scale





artificial intelligence 101

the capability of a computer system to mimic human-like cognitive functions such as learning and problem-solving



different types of AI techniques

- knowledge mining
- anomaly detection
- computer vision
- natural language processing
- machine learning
 - supervised learning
 - unsupervised learning
 - reinforcement learning
 - deep learning





example - machine learning

"a computer program is said to learn from experience \mathbf{E} with respect to some class of tasks \mathbf{T} and performance measure \mathbf{P} , if its performance at tasks in \mathbf{T} , as measured by \mathbf{P} , improves with experience \mathbf{E} ."

Tom M. Mitchell





example – machine learning types

supervised learning

- regression
- classification

unsupervised learning

- clustering

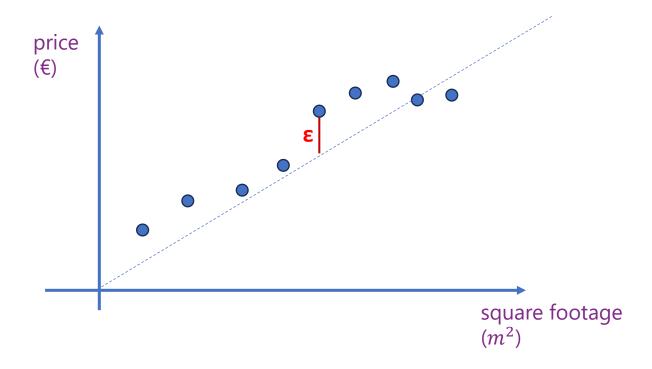
reinforcement learning

- game theory





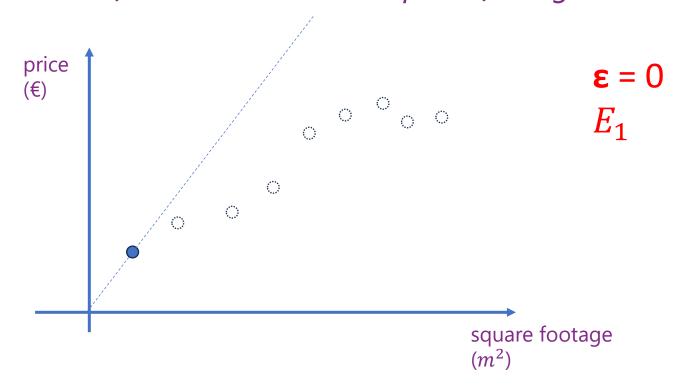
example - machine learning regression





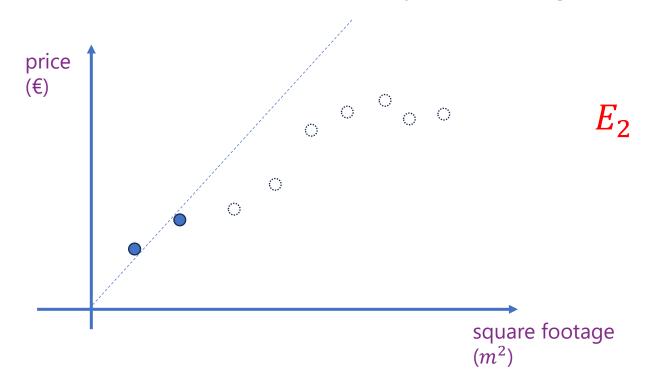


example – machine learning regression





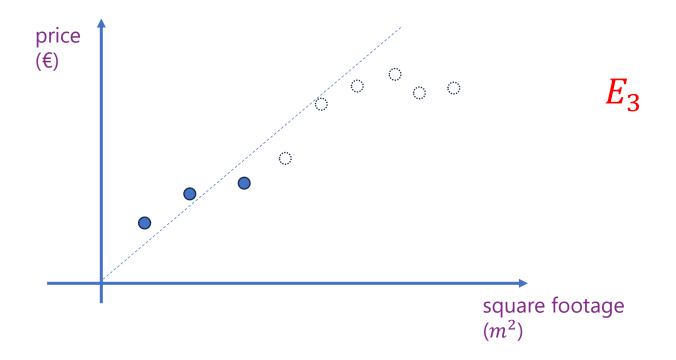
example – machine learning regression







example – machine learning regression



A different AI model for each task!

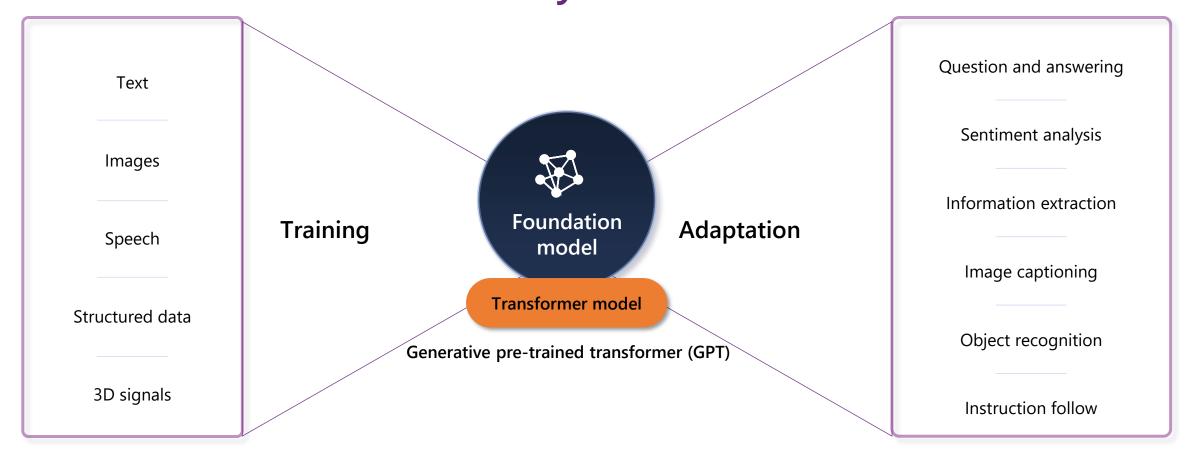
- knowledge mining
- anomaly detection————
- computer vision —
- natural language processing
- machine learning
 - supervised learning
 - unsupervised learning
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 - deep learning -







foundation model is the way







enhance your soc team capabilities with Microsoft Copilot for Security

Microsoft 365 Copilot

Works alongside you in the apps you use every day

Dynamics 365 Copilot

Turbocharge your workforce with a copilot for every job role

Copilot in Power Platform

Imagine it, describe it, and Power Platform builds it

Microsoft Copilot for Security

Defend at machine speed with Microsoft Copilot for Security

GitHub Copilot

Increase developer productivity to accelerate innovation





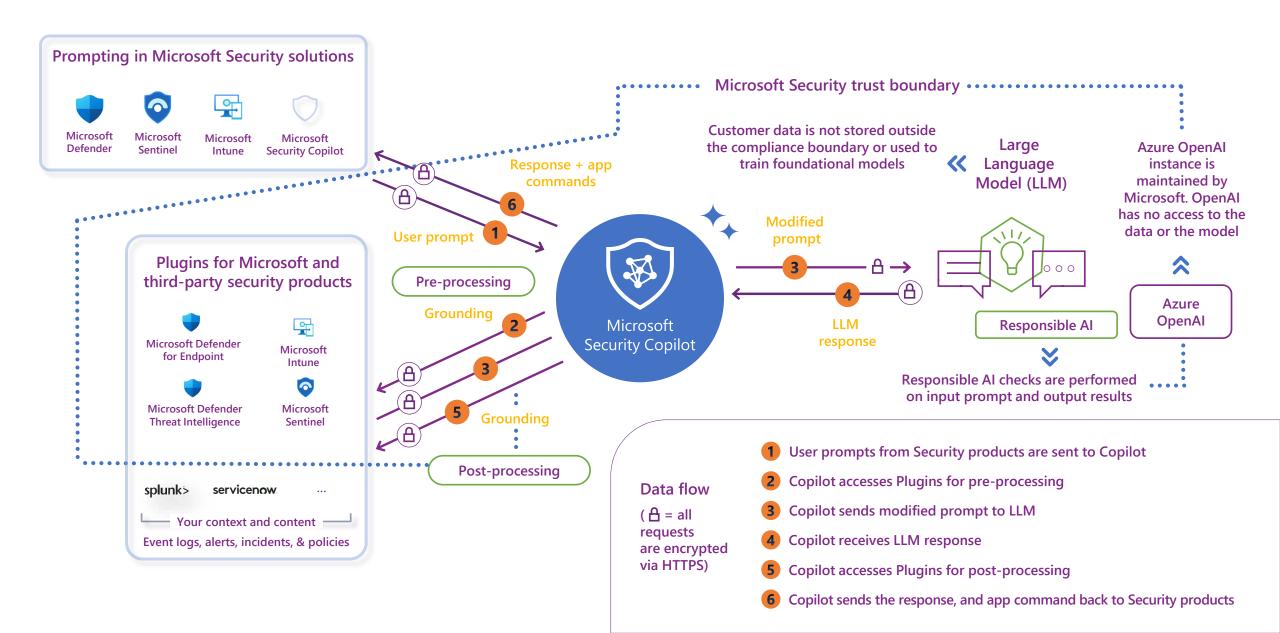
enhance your soc team capabilities with Microsoft Copilot for Security

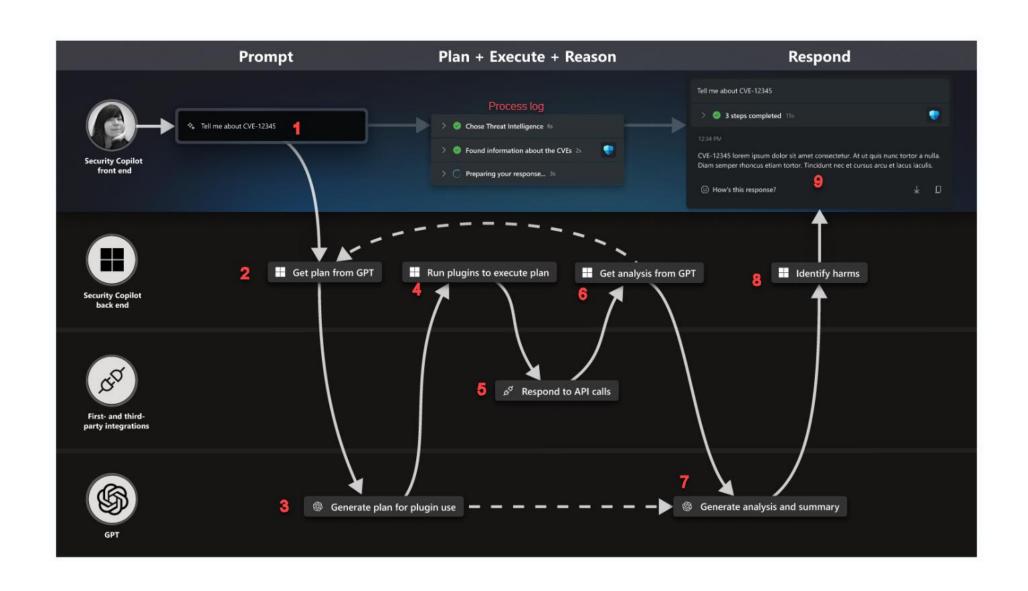
	prompt	planner	build Context	responding	response
Human	> submits a prompt				> receives response
Copilot for Security		> determines initial context and builds a plan using all the available skills	> executes the plan to get the required data context to answer the prompt	> combines all data and context and the model will work out a response	> formats the data





enhance your soc team capabilities with Microsoft Copilot for Security





plugins

they represent a set of functionality that Copilot for Security can perform.

2 types

- preinstalled
 - Microsoft plugins
 - other plugins (ServiceNow)
 - websites
- custom





Microsoft plugins

- Microsoft Entra
- Microsoft Defender External Attack Surface Management
- Microsoft Intune
- Microsoft Defender XDR
- Microsoft Sentinel
- Microsoft Defender Threat Intelligence
- Natural language to Microsoft Defender XDR KQL





other plugins

- ServiceNow
- Splunk
- other plugins in the near future, working with *Microsoft Security Design Advisor Council Partners*

https://securitypartners.transform.microsoft.com/copilot-private-preview-partners





Microsoft Security Design Advisor Council Partners







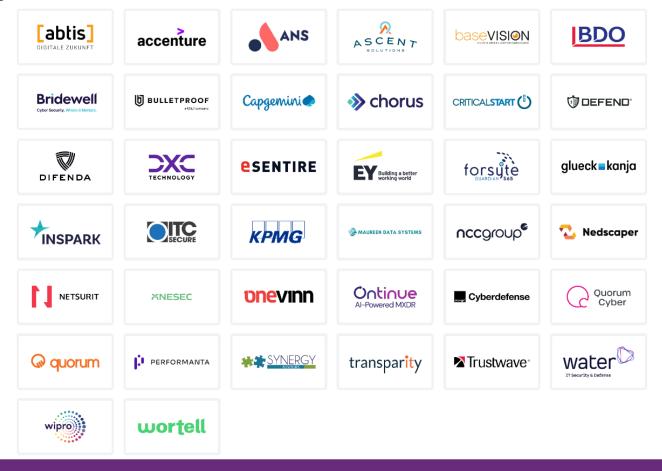






Partner Private Preview

Managed Security Service Providers







Partner Private Preview

Independent Software vendors







websites

- authoritative sources like
 - Microsoft documentation
 - Mitre & Attack
 - CISA alerts & advisories
 - •



custom Plugins

defined using a YAML or JSON formatted manifest which describes metadata about the skill set and how to invoke the skills.

two required top level keys:

- Descriptor ---> metadata
- SkillGroups ---> what the plugin is able to perform





how to interact with Copilot for Security

you can interact with Copilot for Security using

• standalone portal single portal www.securitycopilot.microsoft.com to interact with all the connected datasources

embedded experiences
 Copilot for Security integrated in different security product portals to have ad hoc capabilities ready to be used





DEMO TIME





demo

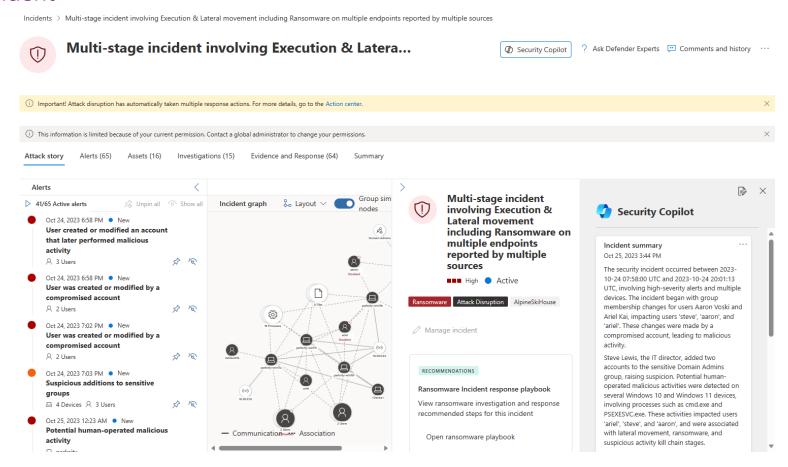
- standalone portal
- interactive tour
- manage plugins



- summarize an incident
- guided incident response
- analyze a script
- generate KQL from natural language
- create incident reports



summarize an incident







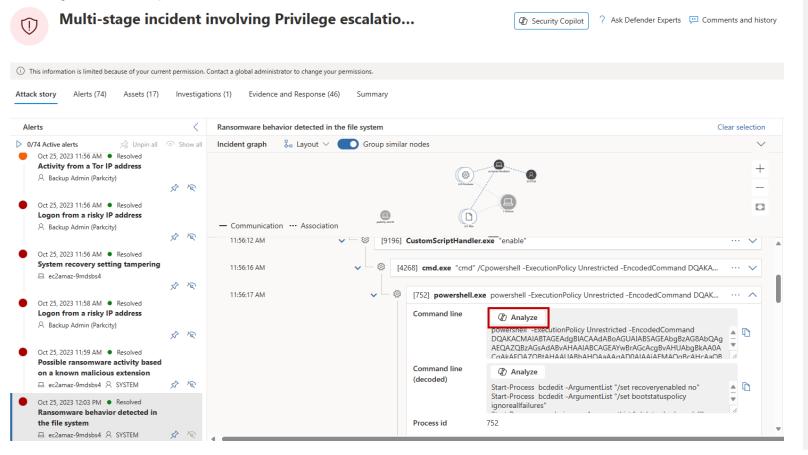
guided incident response

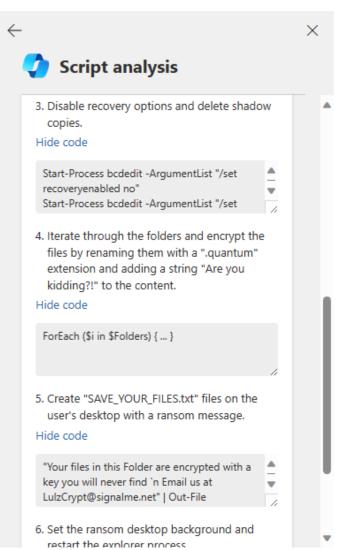






analyze a script

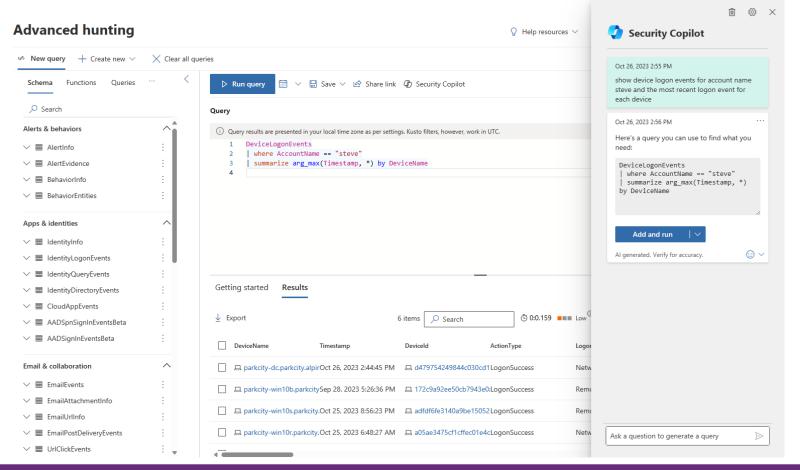








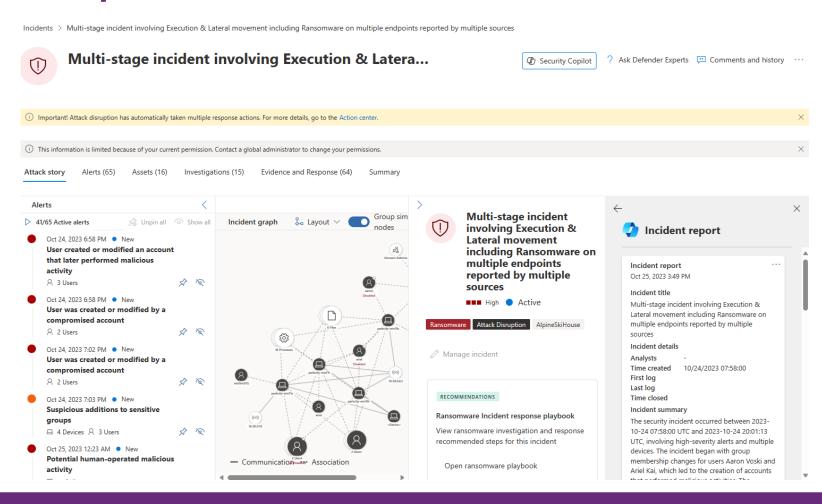
generate KQL from natural language







incident report







DEMO TIME





demo

- summarize an incident
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standalone vs embedded experience





standalone vs embedded experience

COPILOT FOR SECURITY IS NOT A TOOL THAT EXTENDS YOUR SECURITY LAYERS





Microsoft Security Copilot

standalone vs embedded experience

embedded experiences

Unified SOC Platform

Intune

Entra

Purview

Defender for Cloud

Defender EASM

start of the investigation, a first analysis



in-depth analysis, focus single product



connect the dots and ad-hoc operations







sessions

each interaction with Copilot for Security can be performed in the context of an existing or new session.







sessions

sessions are used to organize prompts & responses related to a specific investigation

- return to an existing session
- edit & re-run queries
- give meaningful names
- delete when no longer required
- exported
- shared





sessions

Copilot for Security uses OAuth 2.0 On-Behalf-Of flow users can only query against data they have access to!

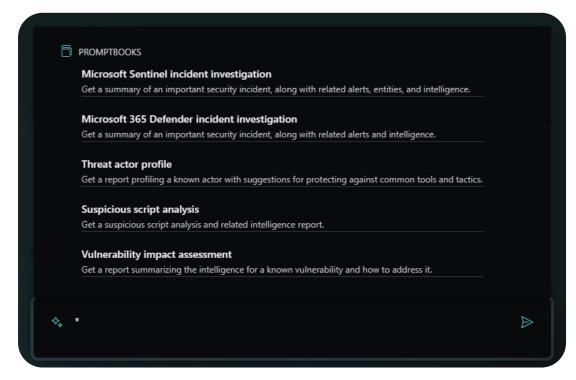
Role	Run prompts	Run promptbooks	Manage plugins	Configure settings	Opt-in or opt-out on product and model improvements
Global admin	√ *	√ *	✓	✓	✓
Global reader	√ *	√*			
Security admin	√ *	√ *	√	✓	✓
Security operator/reader	√ *	√ *			





promptbooks

promptbooks are templates of bundled prompts put together to accomplish specific security-related tasks







DEMO TIME



























Questions & Answers