Increasing my Identity Security with Microsoft Security Copilot

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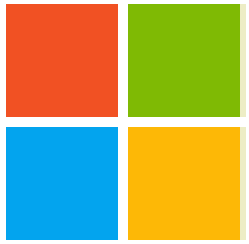
“SoMe”: “@JanVidarElven”

}

Takk til våre sponsorer i dag



Microsoft

Evidi

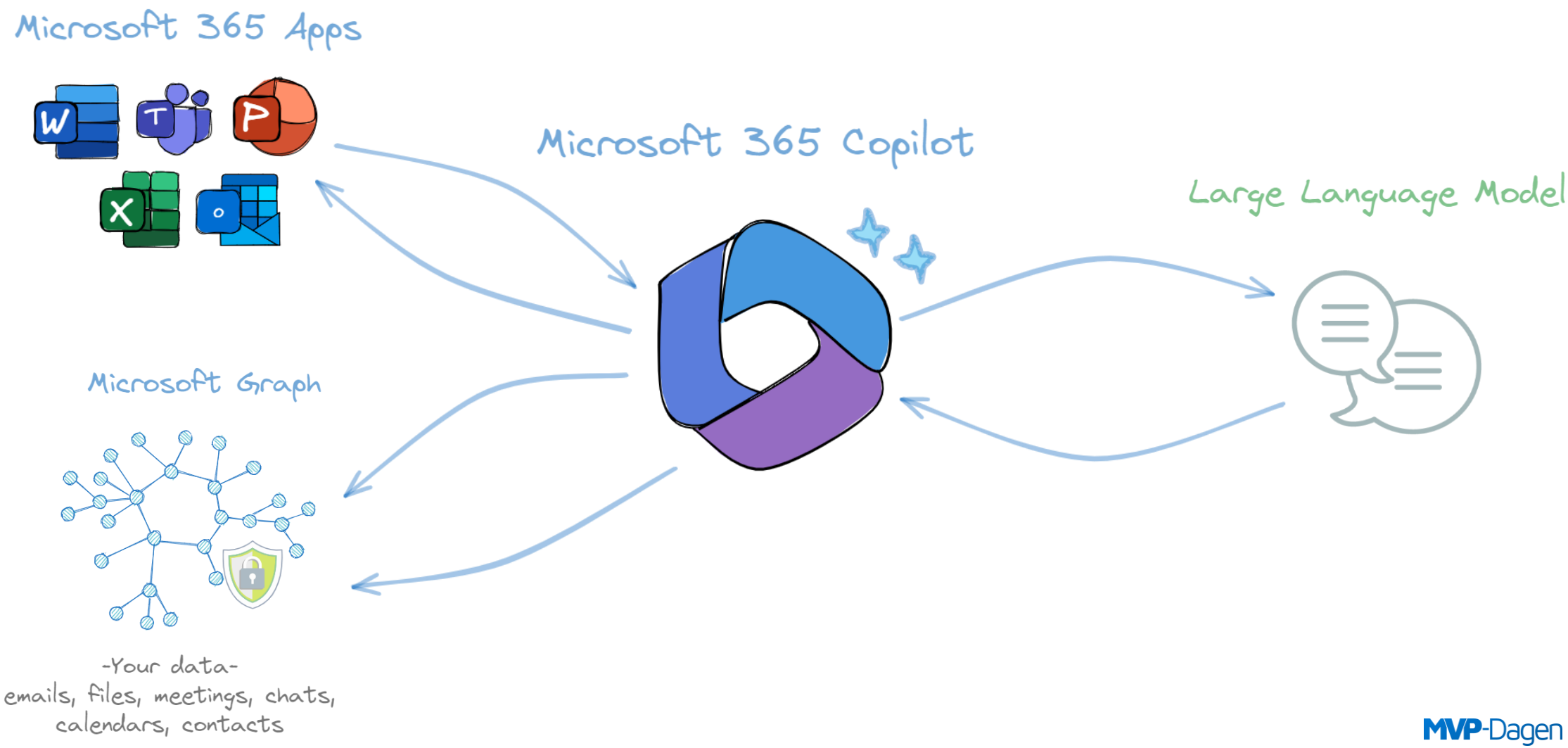
Takk til våre sponsorer som støtter sine MVPer

What do we know about Security Copilot?

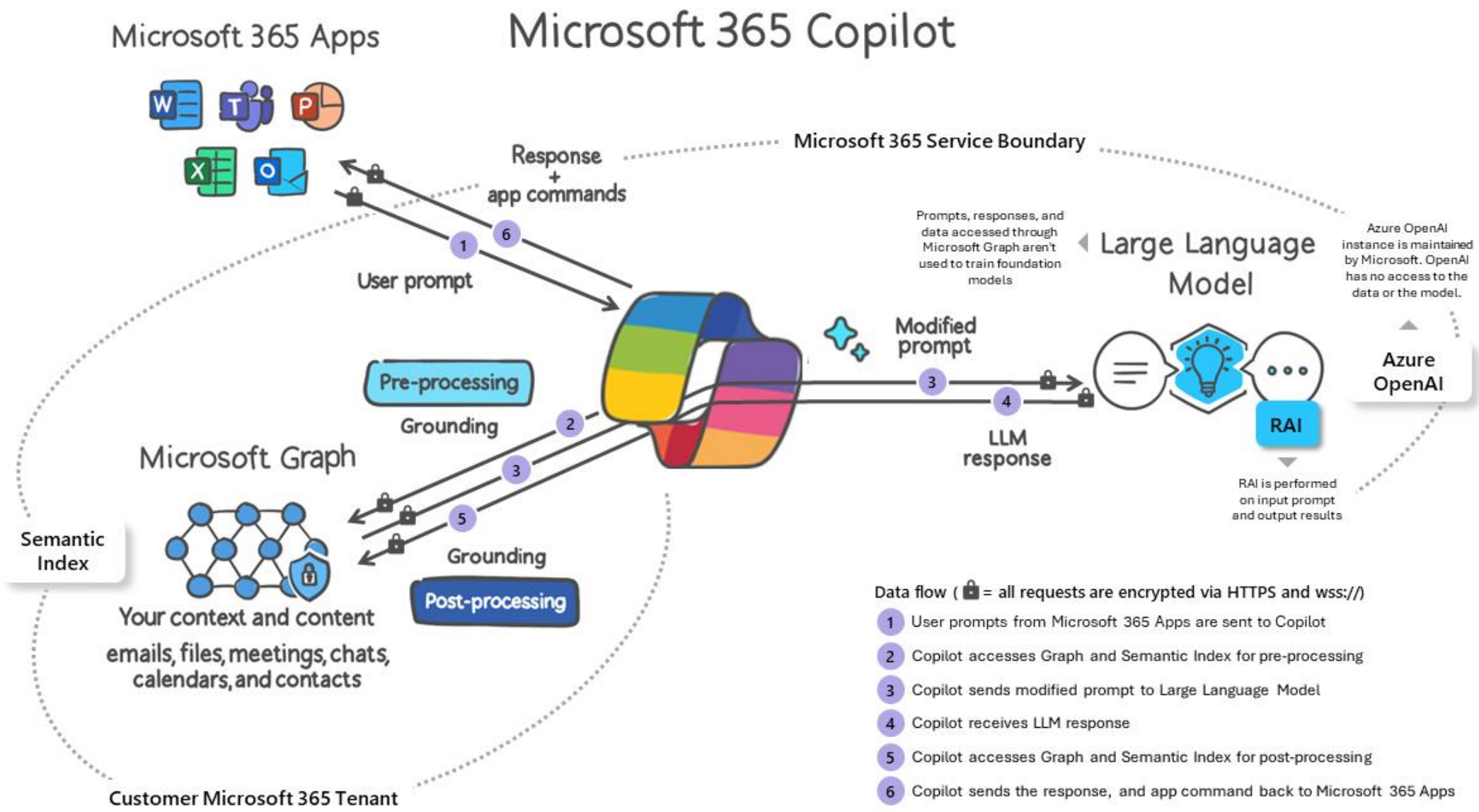
How to present a talk about Security Copilot without having access to Security Copilot..?

..ok, thanks for coming to this talk ;)

Microsoft 365 Copilot System



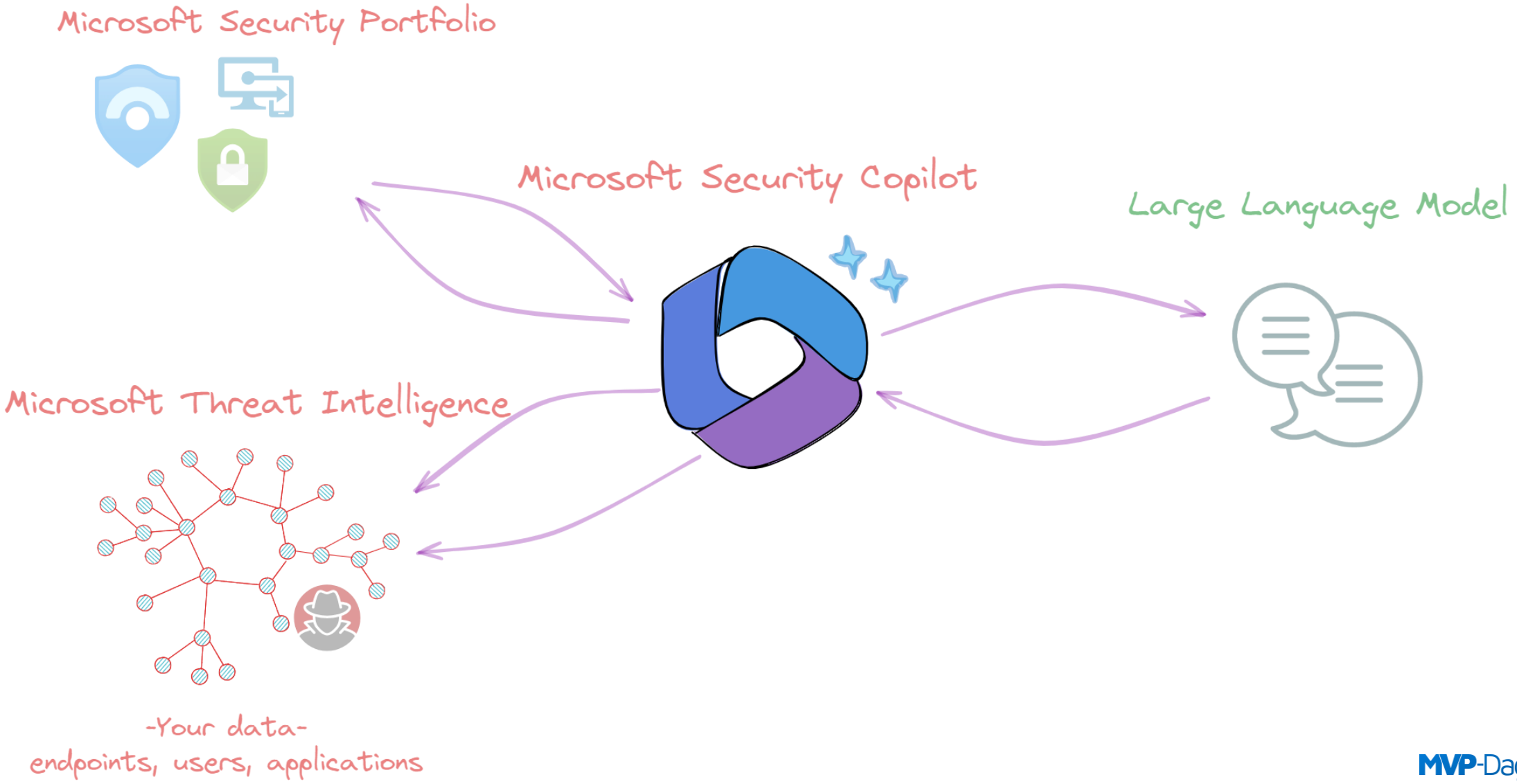
Microsoft 365 Copilot



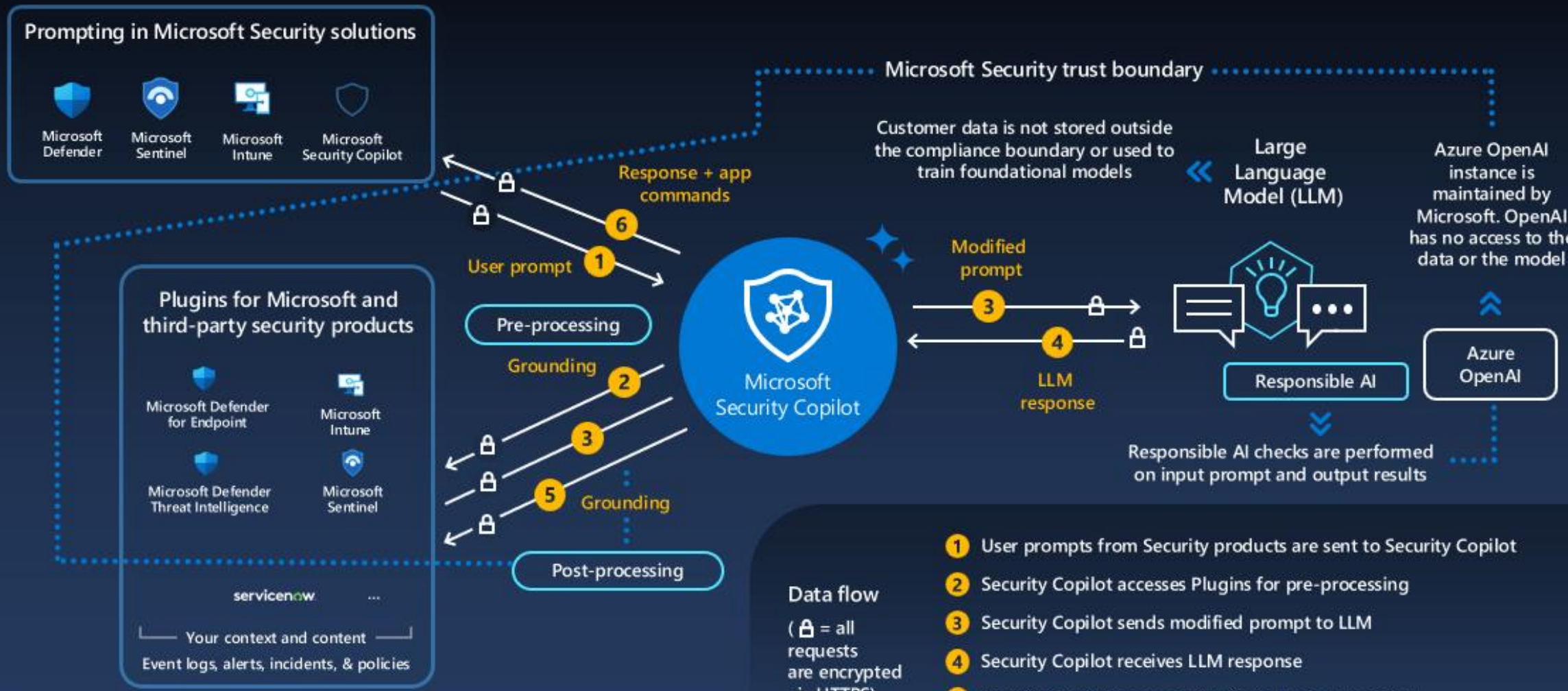
Data flow (= all requests are encrypted via HTTPS and wss://)

1. User prompts from Microsoft 365 Apps are sent to Copilot
2. Copilot accesses Graph and Semantic Index for pre-processing
3. Copilot sends modified prompt to Large Language Model
4. Copilot receives LLM response
5. Copilot accesses Graph and Semantic Index for post-processing
6. Copilot sends the response, and app command back to Microsoft 365 Apps

Security Copilot System



Microsoft Security Copilot



Data flow

(🔒 = all requests are encrypted via HTTPS)

1. User prompts from Security products are sent to Security Copilot
2. Security Copilot accesses Plugins for pre-processing
3. Security Copilot sends modified prompt to LLM
4. Security Copilot receives LLM response
5. Security Copilot accesses Plugins for post-processing
6. Security Copilot sends the response, and app command back to security products

Why Security Copilot?

- The odds are against today's Security Analysts
- Paradigm shift with AI
- Tools consolidation and Generative AI can transform security

Tell me ab

Summarize this incident in PowerPoint.

Are any of

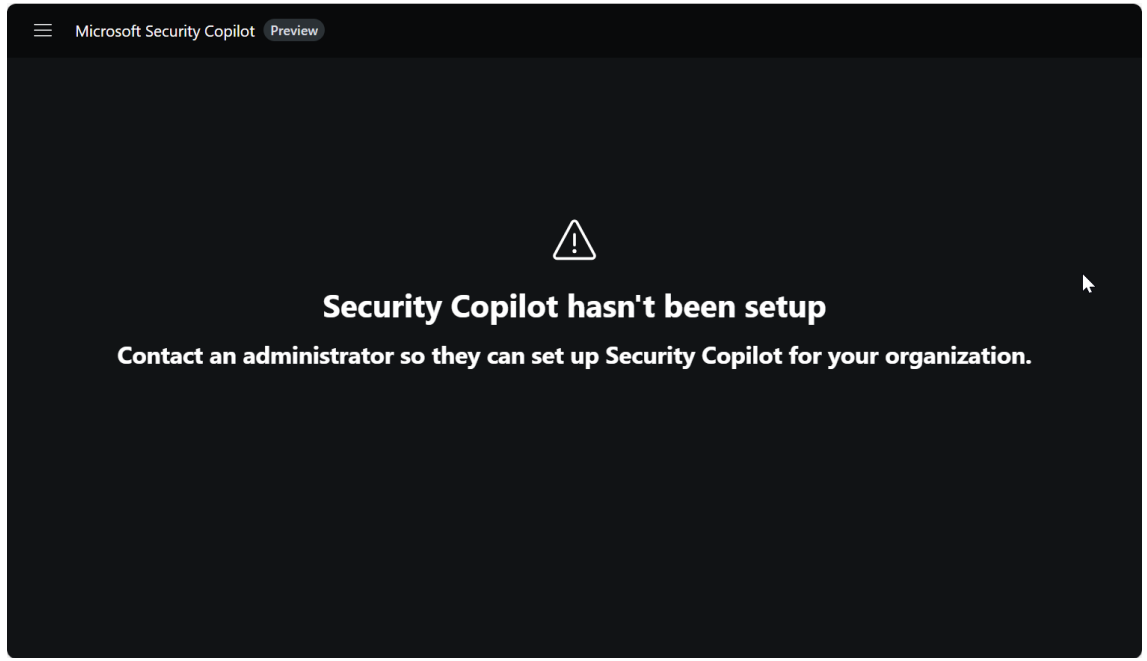
What is log4shell?

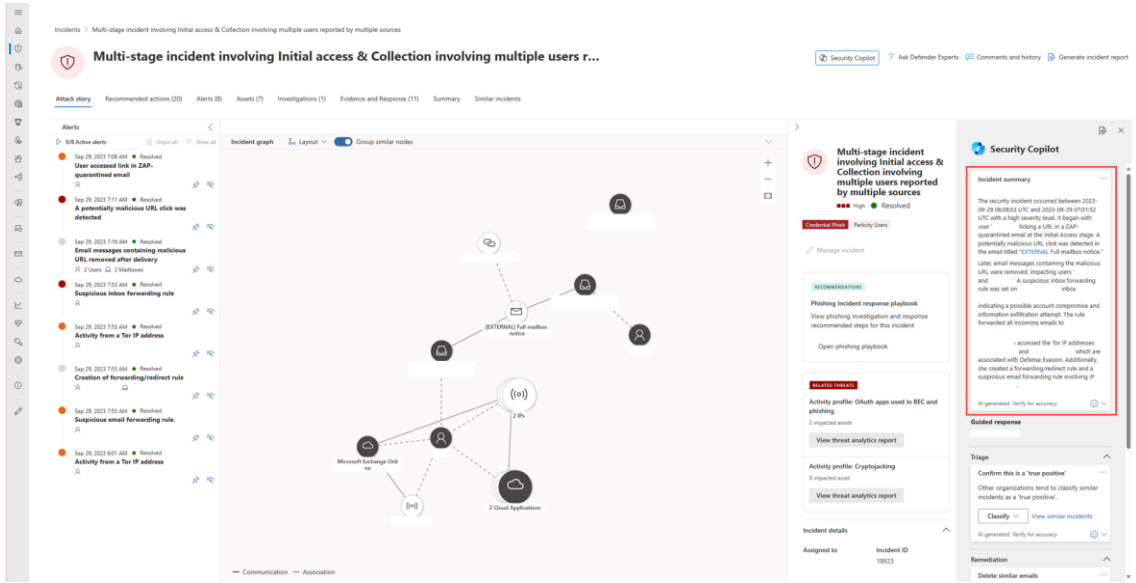
Which alerts are being triggered the most?

How can I improve my security posture?

Security Copilot Experiences

- Standalone
  - https://securitycopilot.microsoft.com/
- Embedded
  - Inside other Microsoft Security Products
  - Microsoft Defender
    - Summarize incidents
    - Analyze scripts and codes
    - Generate KQL queries for hunting
    - Use guided response
    - Create incident reports





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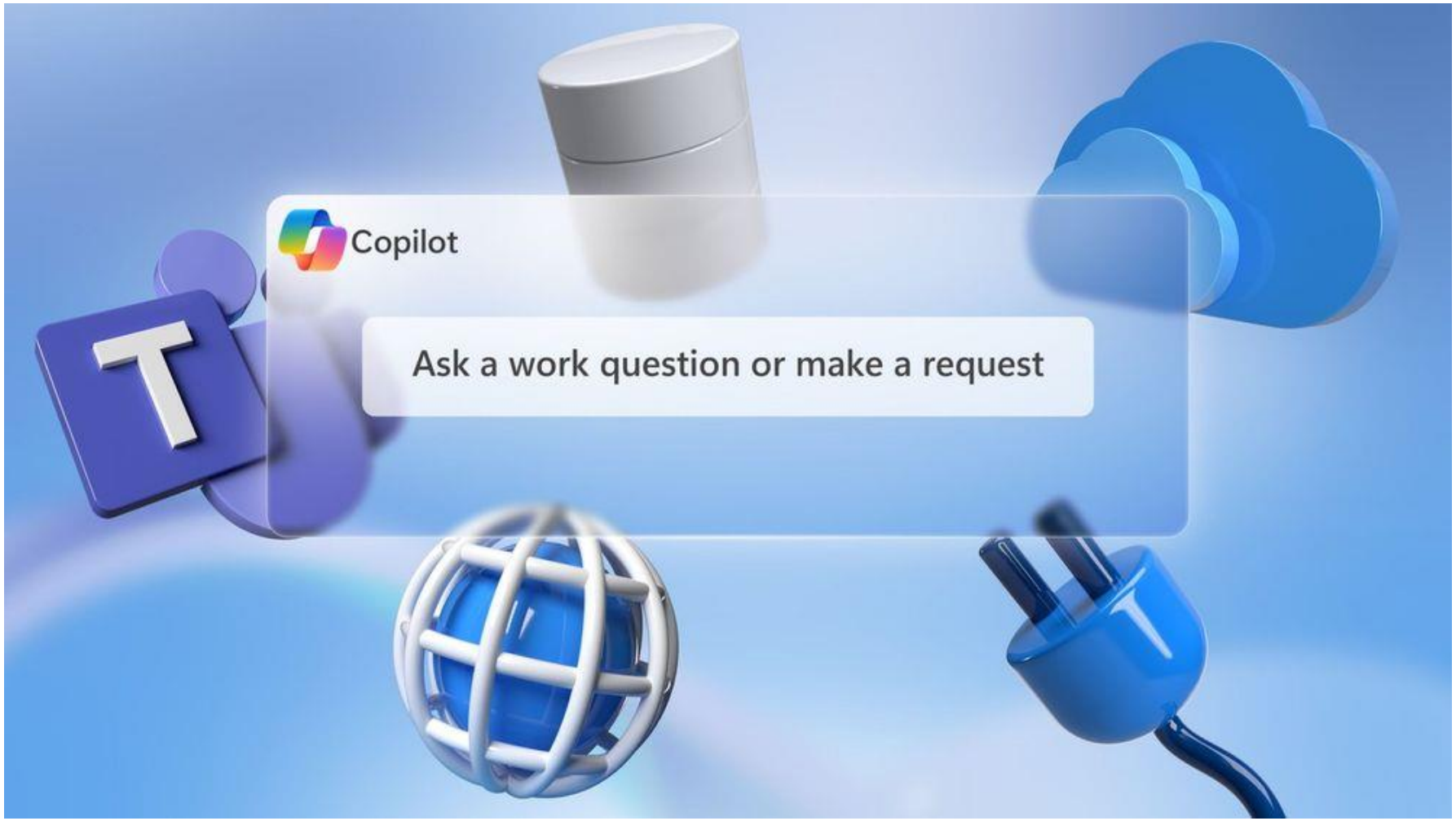
Security Copilot.. sort of

Defend at Machine Speed

Copilot and External Data



Build your own Copilot using Azure OpenAI and your Data

- Works with GPT-35-Turbo and GPT-4 LLMs
- Access via OpenAI Studio or REST API
- Uses Azure Cognitive Search index
- Data formats and file types
  - .txt, .md, .html, Word & PowerPoint files, PDF
- Source blob storage or local files

Cognitive Services Preview Data Sources

Preview data sources by Cognitive Search

New data sources are issued as preview features. Sign up to get started.

Azure Cosmos DB for Apache Gremlin

by Cognitive Search

Connect to Azure Cosmos DB for Apache Gremlin to extract items from a container, serialized into JSON documents, and imported into a search index as search documents. Configure change tracking to refresh the search index with the latest changes in your database.

More details

Azure Cosmos DB for MongoDB

by Cognitive Search

Connect to Azure Cosmos DB for MongoDB to extract items from a container, serialized into JSON documents, and imported into a search index as search documents. Configure change tracking to refresh the search index with the latest changes in your database.

More details

SharePoint

by Cognitive Search

Connect to a SharePoint site and index documents from one or more document libraries, for accounts and search services in the same tenant. Text and normalized images will be extracted by default. Optionally, you can configure a skillset for more content transformation and enrichment, or configure change tracking to refresh a search index with new or changed content in SharePoint.

More details

Azure MySQL

by Cognitive Search

Connect to MySQL database on Azure to extract rows in a table, serialized into JSON documents, and imported into a search index as search documents. On subsequent runs, assuming High Water Mark change detection policy is configured, the indexer will take all changes, uploads, and delete and reflect those changes in your search index.

More details

Azure Files

by Cognitive Search

Connect to Azure Storage through Azure Files share to extract content serialized into JSON documents, and imported into a search index as search documents.

More details

https://learn.microsoft.com/en-us/azure/search/search-data-sources-gallery

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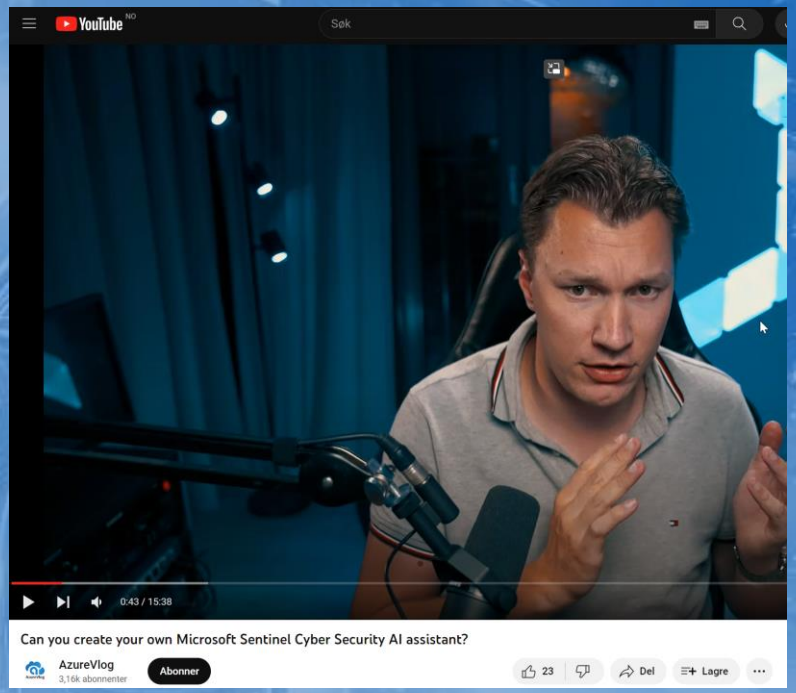
https://youtu.be/L31mYYUt75o?si=BcvUhSOsst89FE4B



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Security AI Assistant for Sentinel via Azure OpenAI

Possible Use Cases for OpenAI and Security

- Bring your own data to Azure OpenAI
  - Storage Account Blob
  - Cognitive Services Search (including Preview sources)
  - Partner
  - **Document-level access control (Security filters)**
- Data Sources for Security
  - Microsoft Security Products
  - Microsoft Graph

How to Prepare for Security Copilot?

- Implement Microsoft Security Products
  - Microsoft Defender
  - Microsoft Sentinel
  - Intune
- Microsoft Learn
- Microsoft Ignite November 15-16


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Tusen takk!
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