#AlNativeWorkplace 2025

Time to supercharge your SecOps with Al!

Miska Kytö | Microsoft MVP





Hello!

- Miska Kytö
- 💻 InfoSec Specialist 🗇 2NS 💳
- AI & Cybersecurity
- Searching for the next big thing
- 🔗 miskakyto.fi





What I want to talk about

State of AI in Cybersecurity

Why using AI in SecOps is not easy

How to do it anyway

What is Security Operations?

- The people and processes keeping organizations safe.
- Responding to threats and incidents related to cybersecurity.
- Usually organized into a SOC (Security Operations Center)
 - Classically 24/7 operation



State of AI in Cybersecurity

- AI has become a staple in the modern work industry
- Attackers also utilize more and more AI
 - More targeted content
 - Better AV evasion
- In cybersecurity, tools are still taking shape
 - Microsoft's Security Copilot a big part of the progress



State of Security Copilot

- Has improved since release
- Agents seem like a step forward
- Still hampered by pricing decisions
 - Too expensive for small companies (which would benefit from it the most)



Why is using AI in SecOps hard?

- Security Operations is a field fueled by experience
- The differences can be hard to spot
 - The difference between a false positive and a true positive can be easy to miss
- Accountability of decision-making
 - Who is responsible for the decisions AI makes?

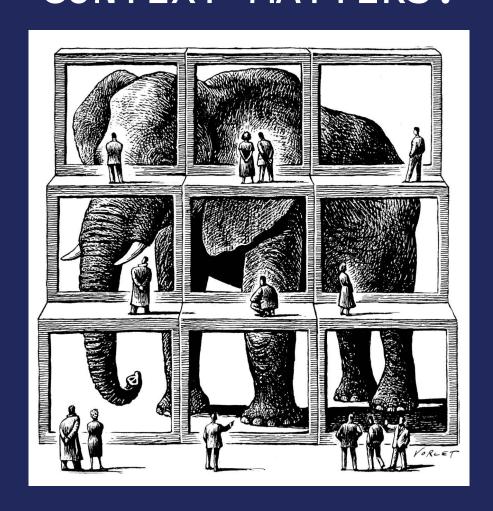


Where AI usually fails in SecOps

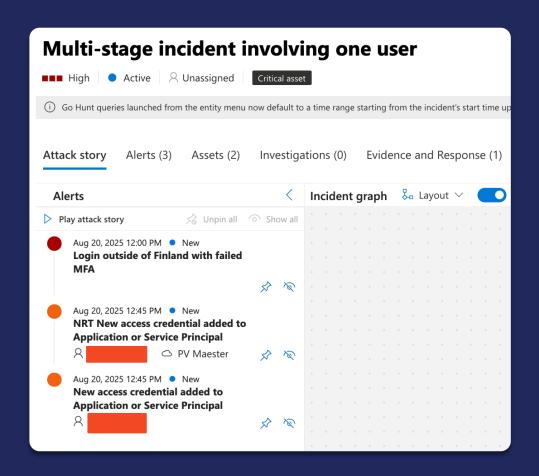
- Bad decision-making
 - Fueled by not having enough context
- Hallucination
 - Fueled by not having enough context or content
- Not able to access the right data
 - Fueled by not having the required integrations

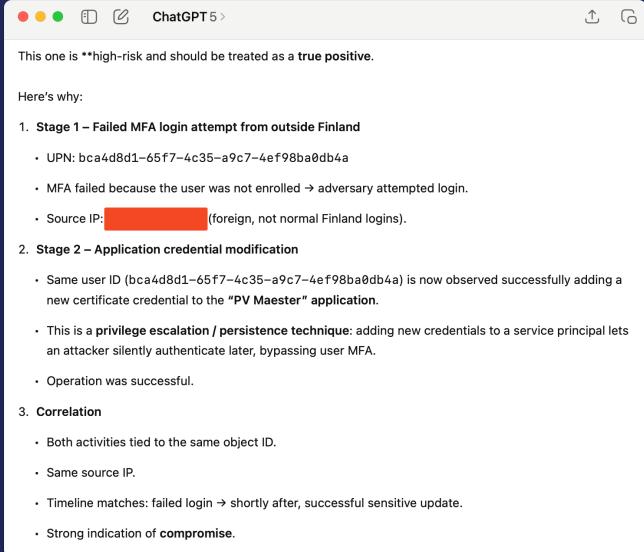


What is the important part? CONTEXT MATTERS.

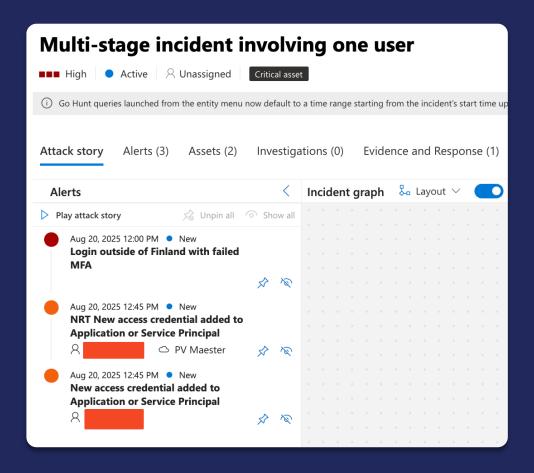


Example of "context matters"



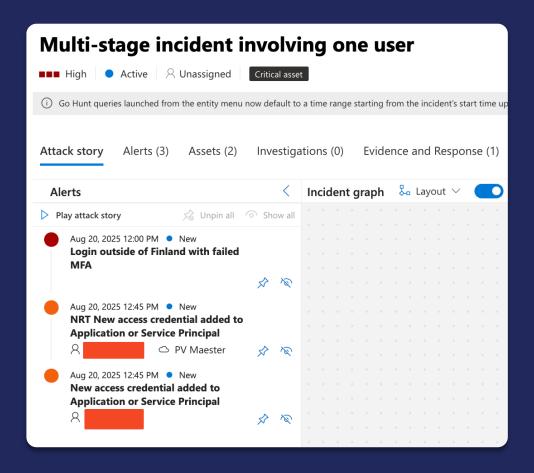


Example of "context matters"



- What a human analyst would ask?
 - What has this user done before?
 - How are the rules configured?
 - How have these kind of incidents been handled in the past? ("Has this been a false positive before?")
 - What is the role of this user in the organization?
 - What is the application used for?

Example of "context matters"



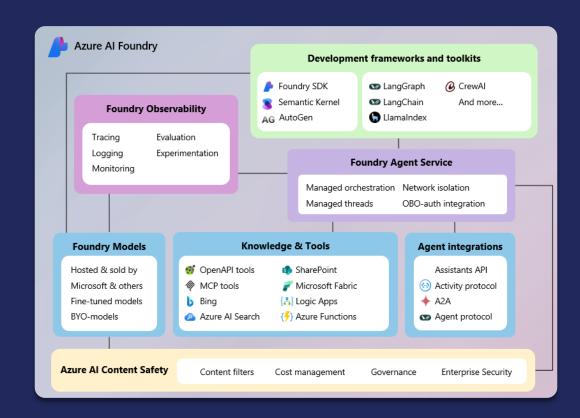
- What a human analyst would have found out
 - What has this user done before?
 - It is a developer creating an audit product
 - How are the rules configured?
 - The Login rule has not been configured well, gives a lot of false positives
 - How have these kind of incidents been handled in the past? ("Has this been a false positive before?")
 - New Access Credential alerts been ruled as BTP before
 - What is the role of this user in the organization?
 - Developer
 - What is the application used for?
 - App is used for testing audit automation rules

Don't try to replace the human

Empower them to do things they couldn't before

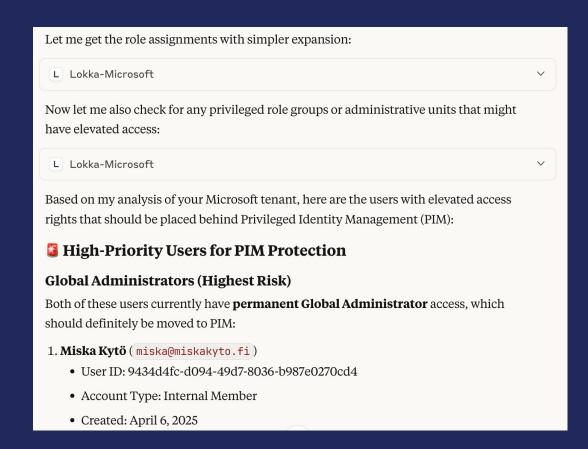
How could you do it?

- Security Copilot
 - Integrations already exist
 - Expensive
- Azure AI Foundry Agent Service
 - Choose your own model
 - Integrations / Tools have to be built (or use MCP)
 - Company Knowledgebase
- Copilot Studio
 - MCP Servers (Lokka, Sentinel)
 - Company Knowledgebase



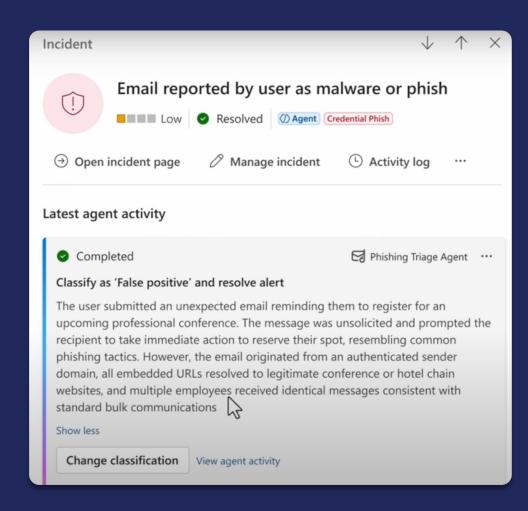
Lokka MCP Server

- MCP Server for interacting with Graph API
- Works surprisingly well
- Can speed up investigation work
 - Especially in large environments
 - In many cases, the question is simple, which is great for a Natural Language Interface

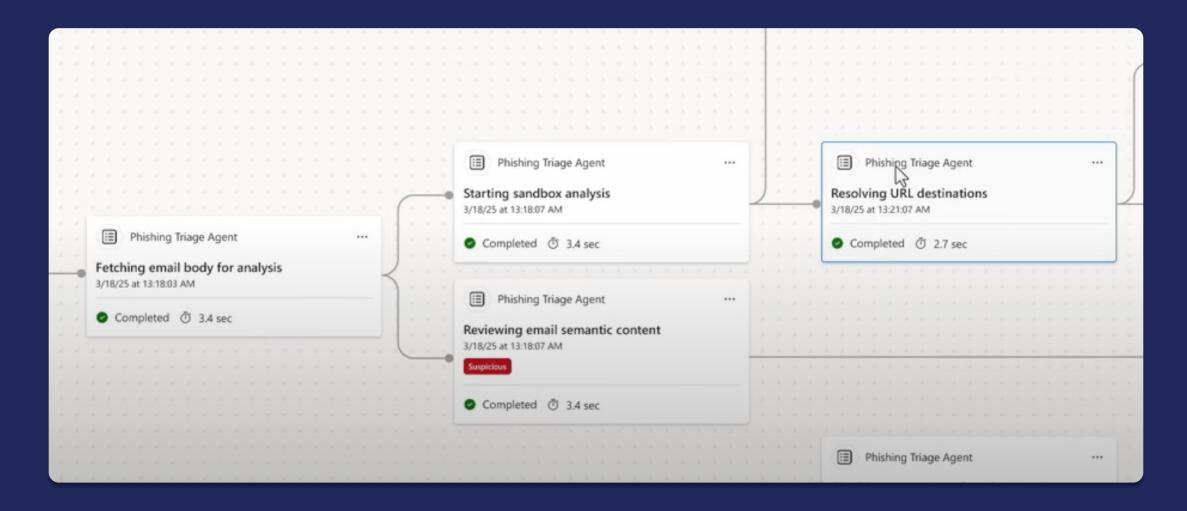


Phishing Triage Agent

- Part of Security Copilot Agents
- Automatic triage of phishing emails
- Can be trained and customized!
- Connected to MDO, if Agent thinks an email is malicious, it gets deleted
- Doesn't replace a human, rather saves them time by giving a second opinion
- Pricing?



Phishing Triage Agent



Conclusion

- We might not be replacing SecOps people just yet...
- However, using AI is becoming a must for efficiency
- Easier for new people to enter the field
 - SecOps has always been difficult to enter
- Security Copilot might become something after all...



Rate my session & Calls to Action





Rate this session

1

1



Attend more sessions and join the closing keynote in room 1 at 21.00 CEST

2



Show your love on social using #AiNativeWorkplace

3



https://copilotbuzz.com/feedback

