

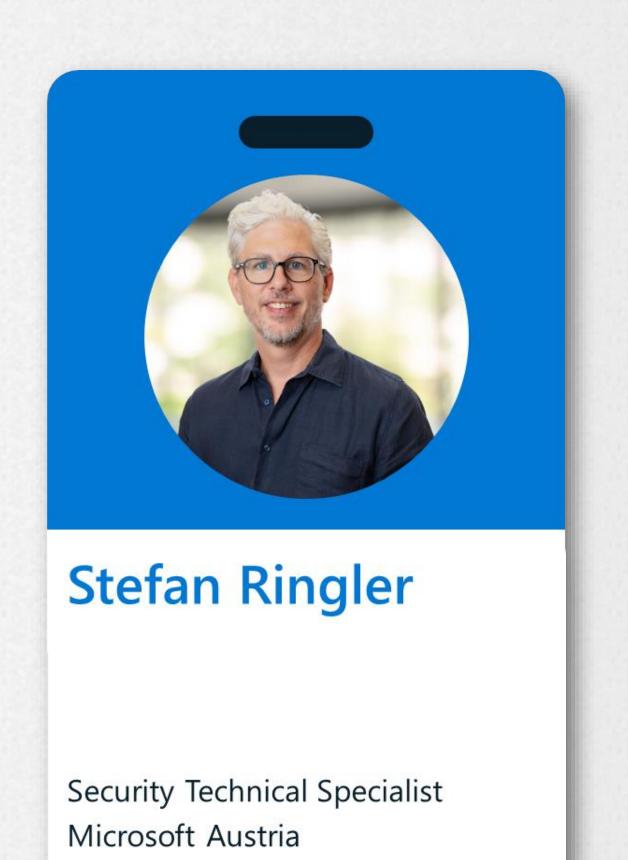
The power of the map



About me



- Security Technical Specialist @Microsoft
- Former Senior Consultant @Microsoft
- Passionate Tennis player





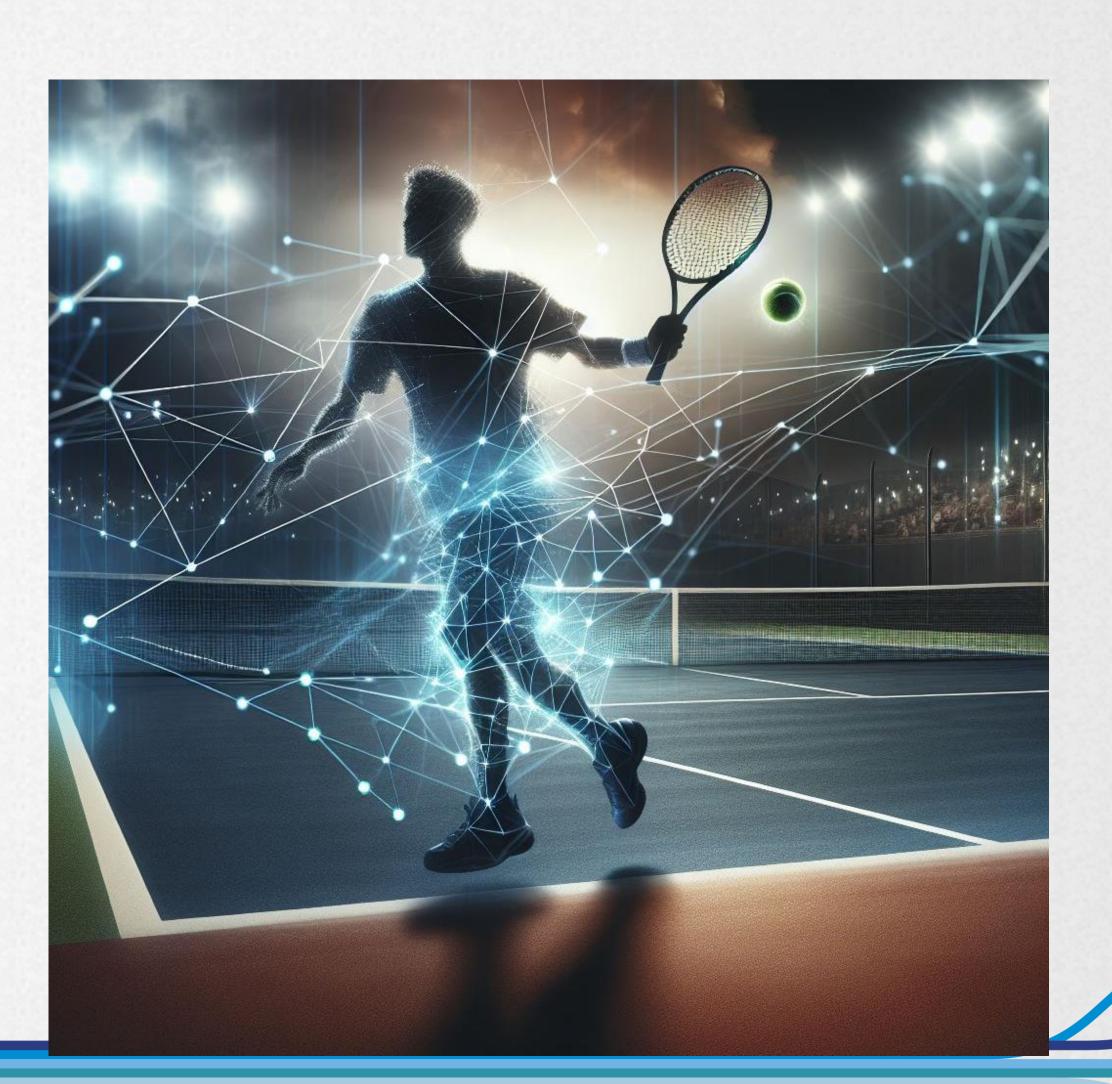
Let's talk about...

- Your Opponents
- Match Plan
- Training priorities
- Winning formula
- Post-game review



Adjusting to an ever-moving target

- Modern attacks operate across multiple domains
- Attack surface is expanding...
- Attacks even fueled with GenAl
- Threats quickly pivot and adopt when blocked in one area





Anticipate. Position. Strike Back.

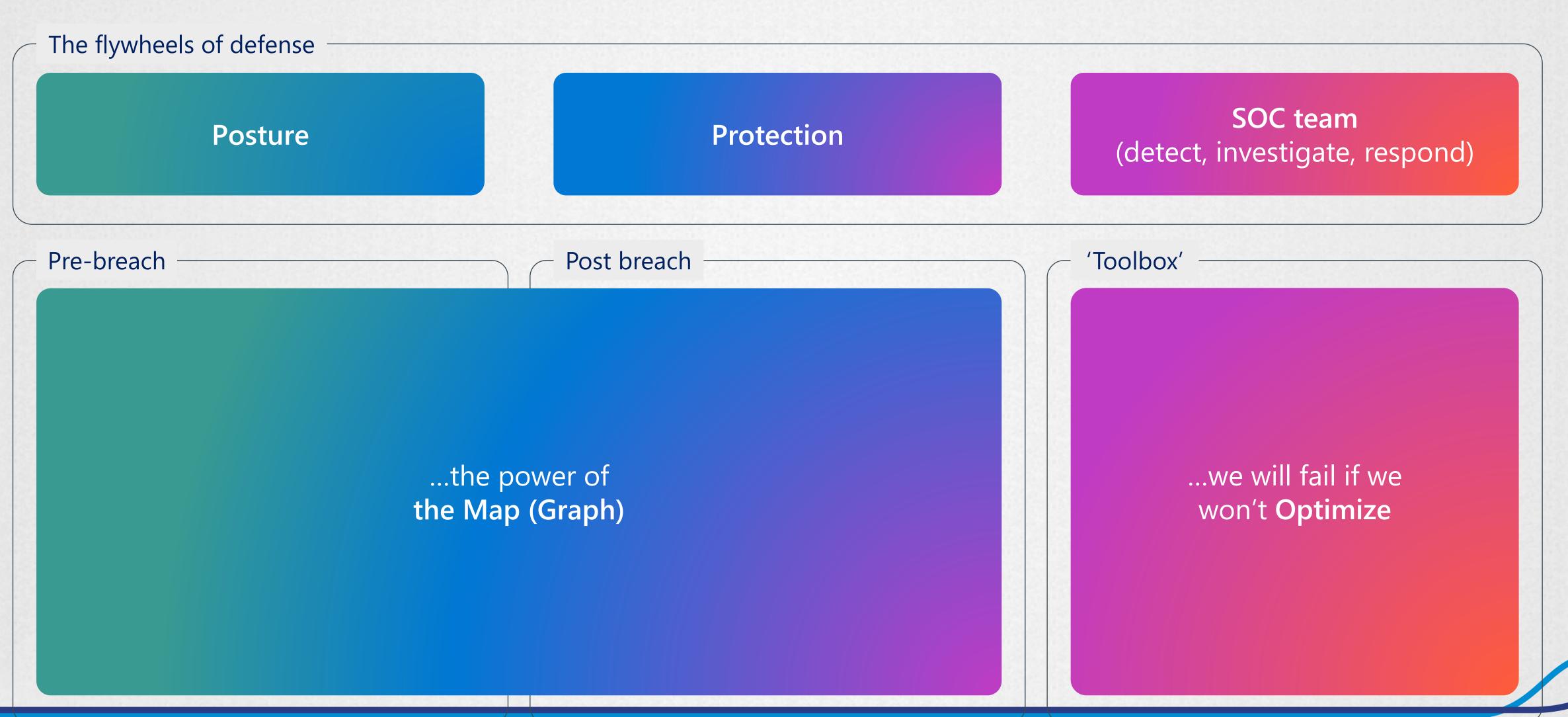
Reading the Cybersecurity Court Like a Pro



"You don't just react to threats — you read your opponent and move proactively."

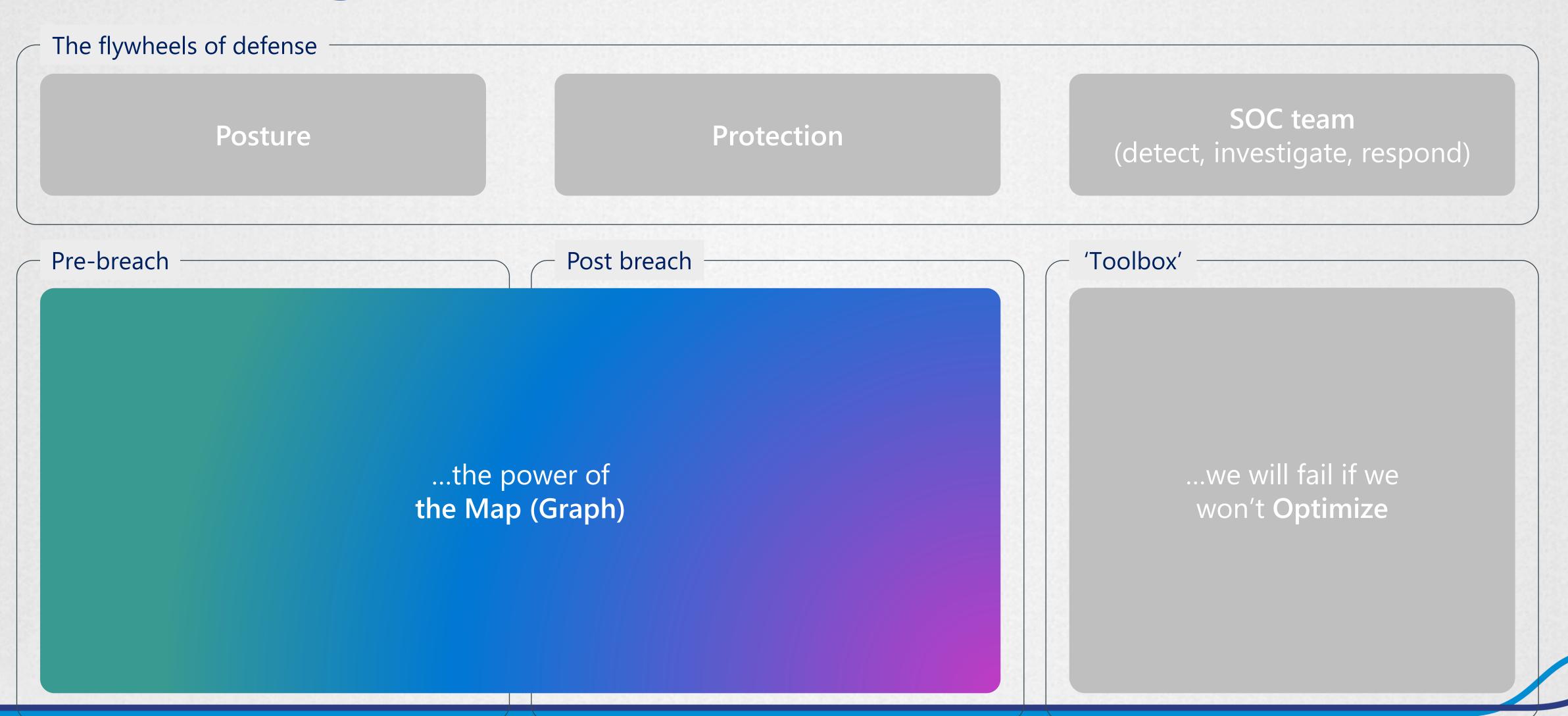


Building Blocks





Building Blocks





Layers of the graph

Incident Graph

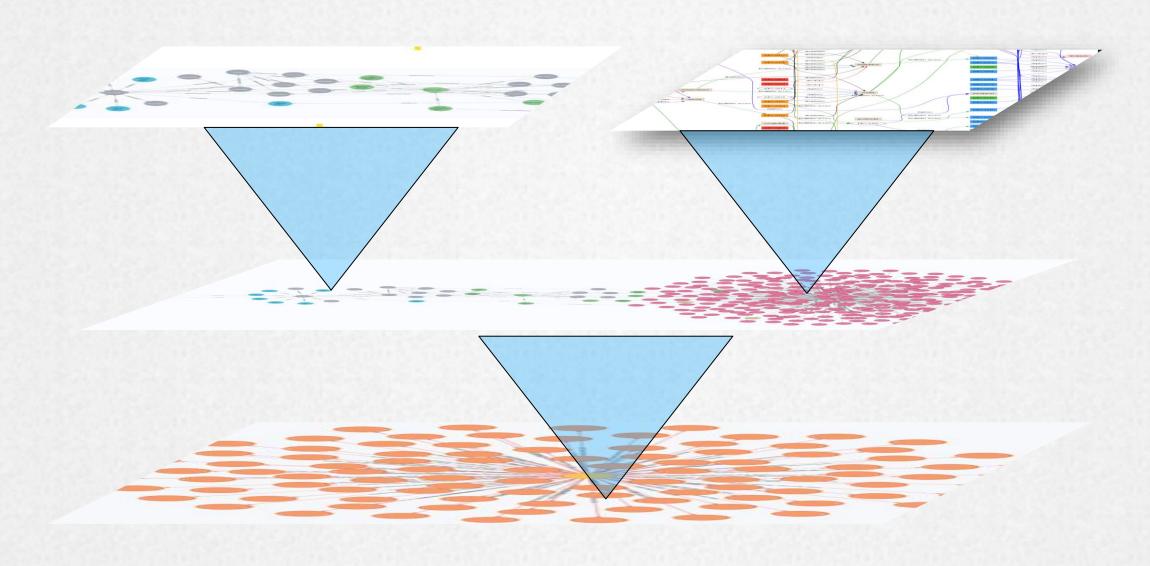
Actual Paths Observed

Attack Graph

Theoretical Paths Possible

Security Graph

Asset Configuration & Topology

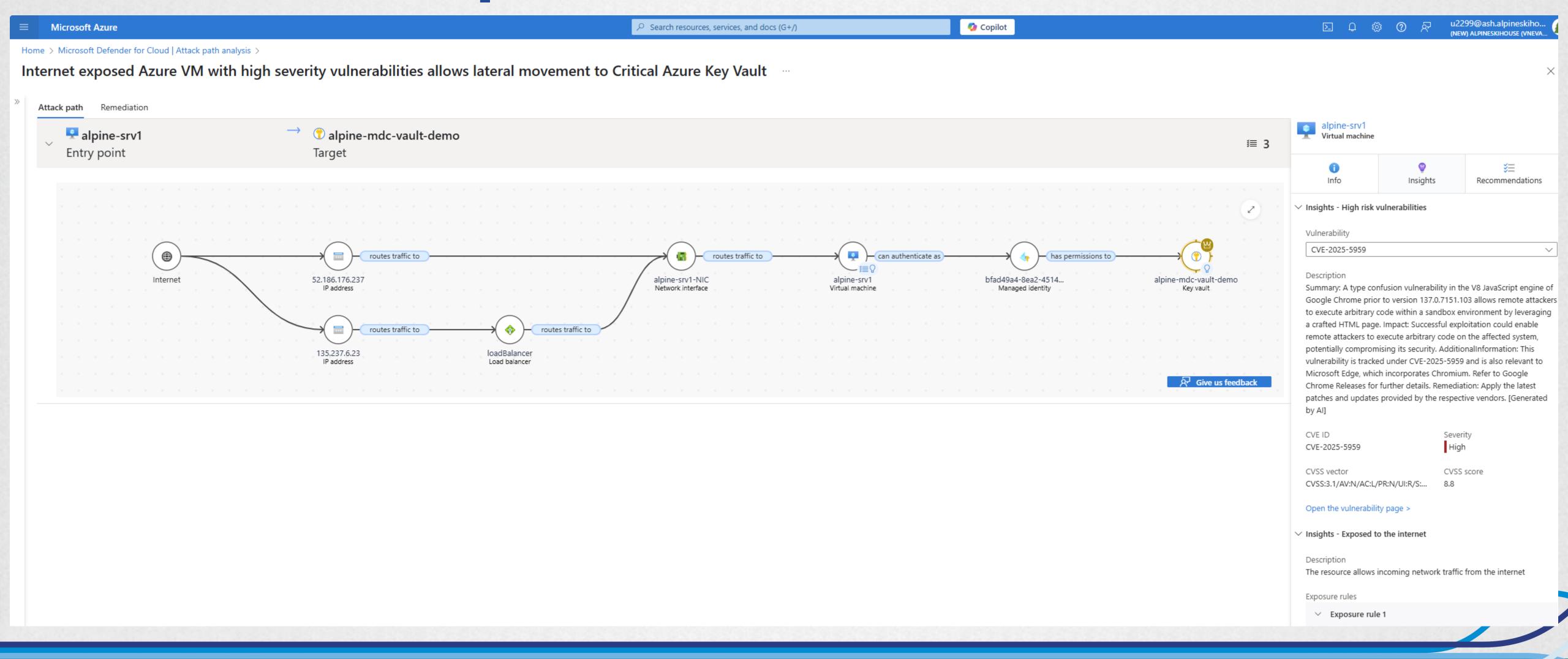


Theat Intel Graph

Known Attacker TTP Paths



Attack Graph in MDC





Extensible

Cover your entire estate

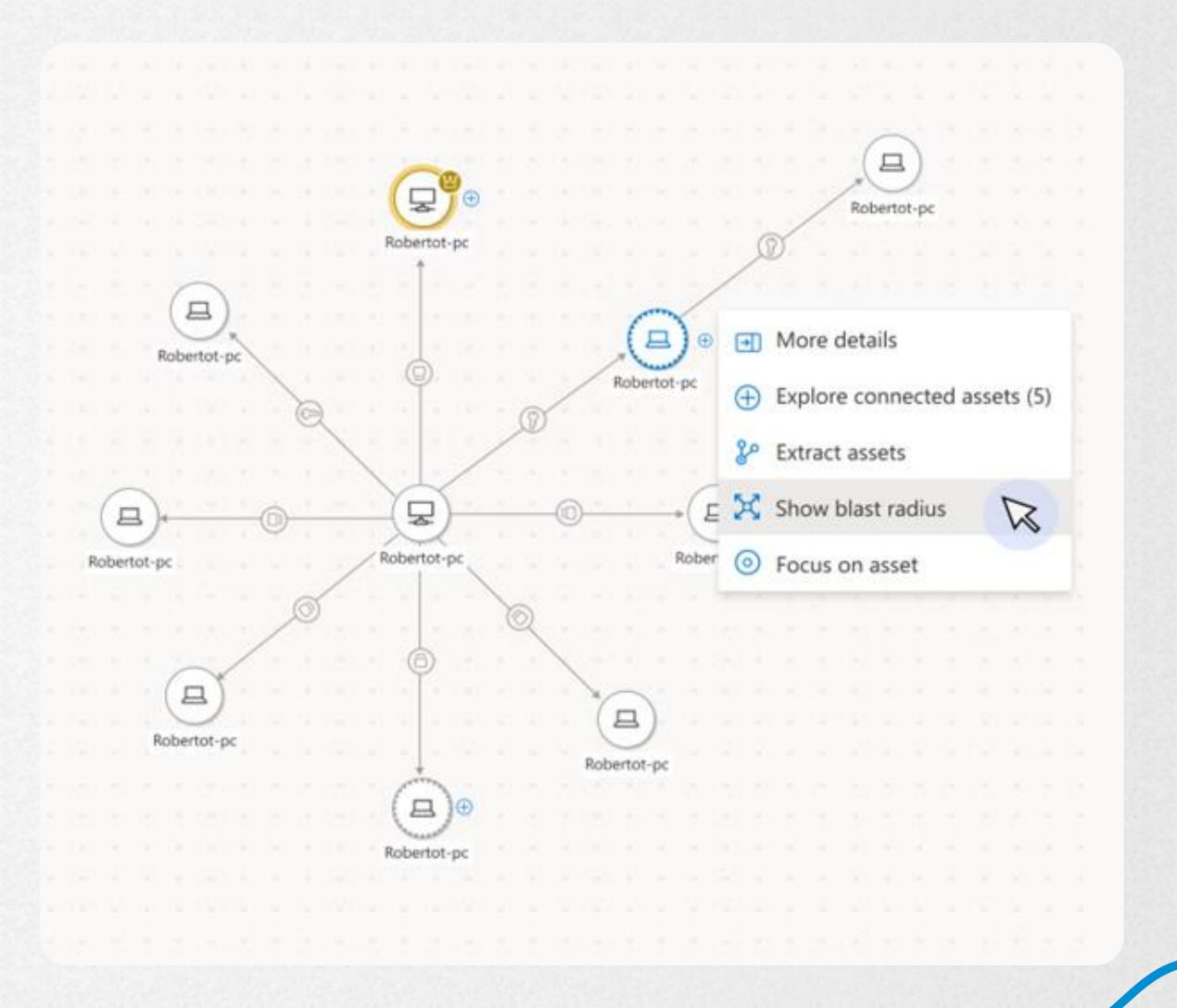
Unified Asset Inventories

Cover all assets types

Critical Asset Management

Identify & classify enterprise critical assets

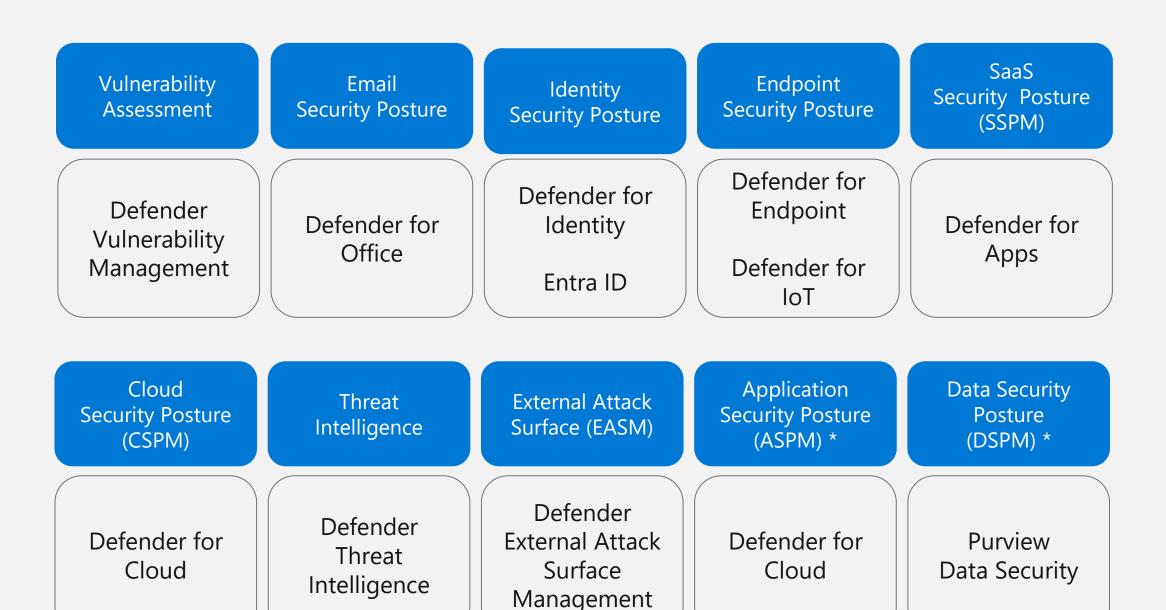




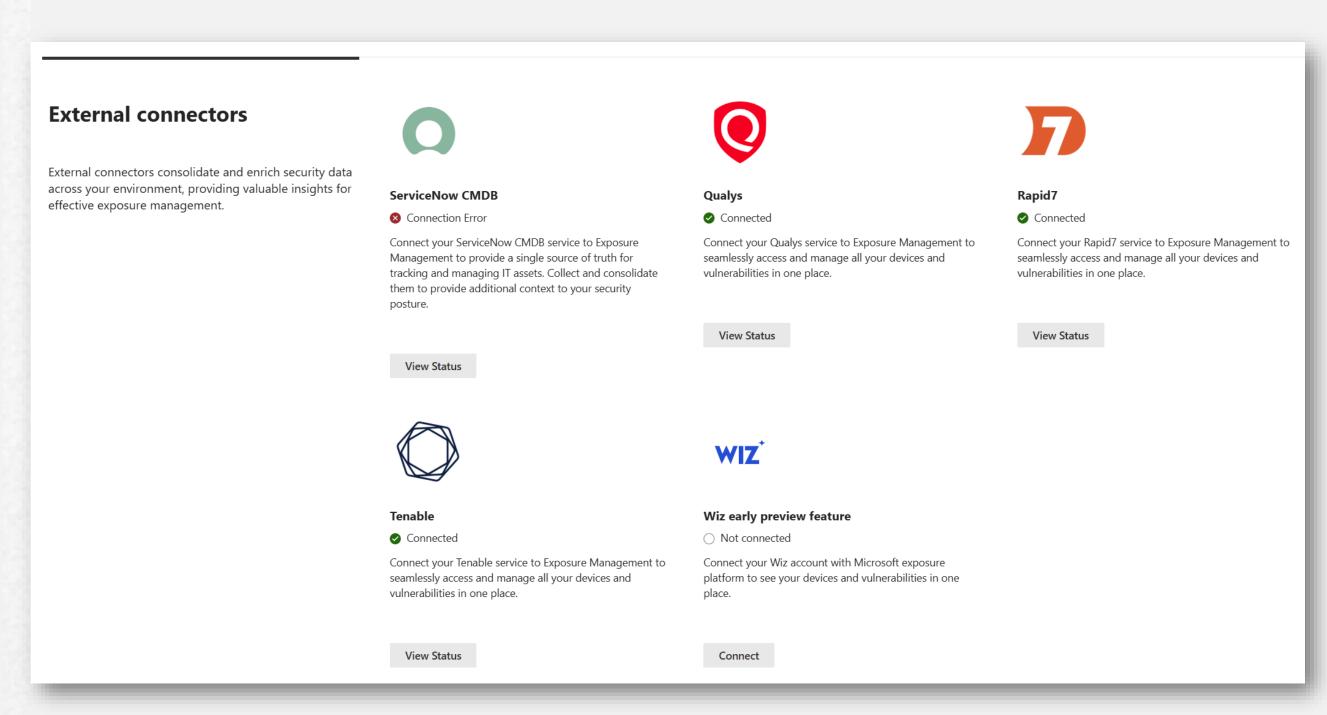


Map the org

Integration with Microsoft Security products out of the box



Connectors integrate with non Microsoft security tools





Attack Path Analysis drives better posture

Discover paths to critical assets

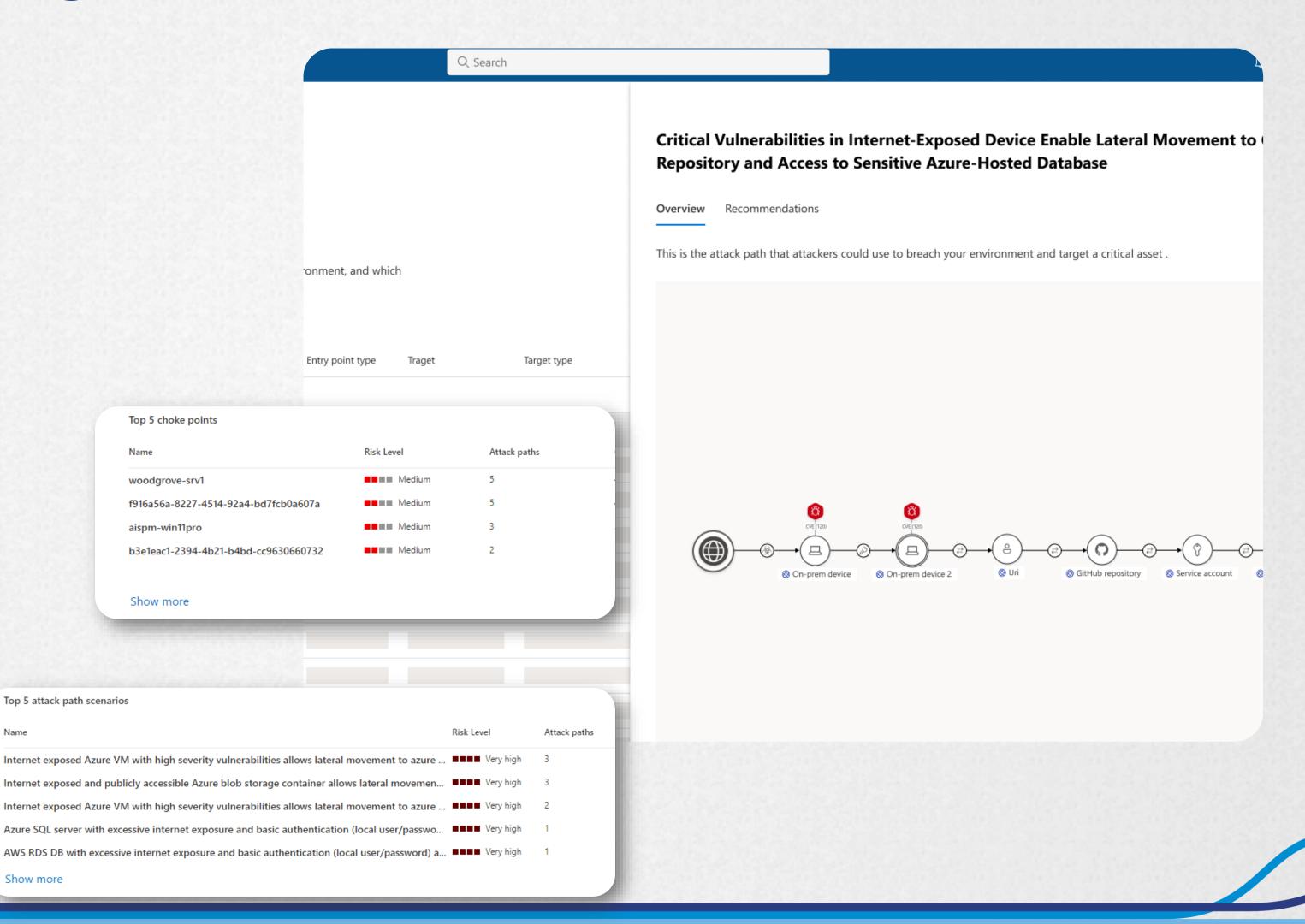
View attack paths to your critical assets across on-prem & cloud just like an attacker would.

The attacker's perspective

Map potential routes that threat actors could take as they try to exploit weaknesses

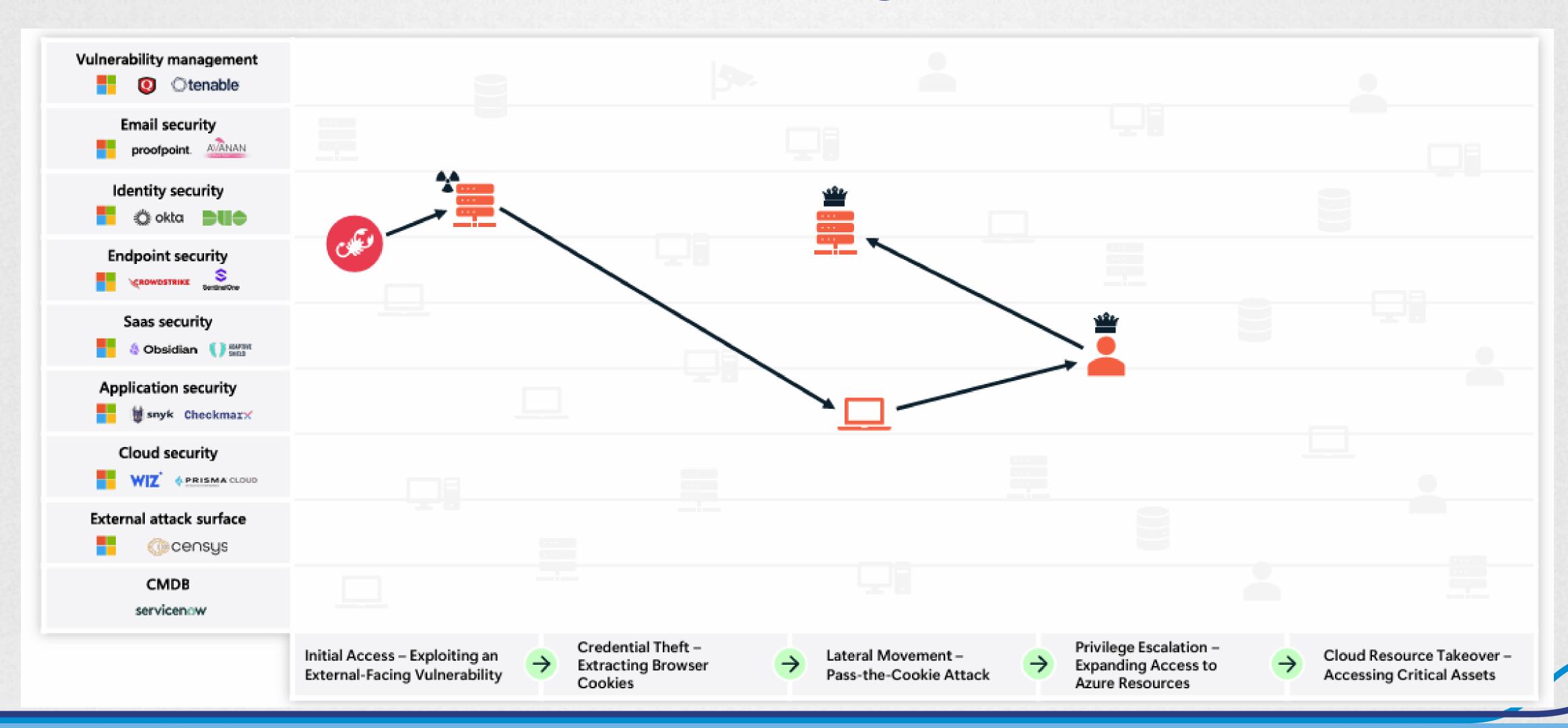
Land and expand analysis usecases:

- Validating security risk
- Vulnerability assessment
- Penetration testing
- Threat modeling
- Incident response



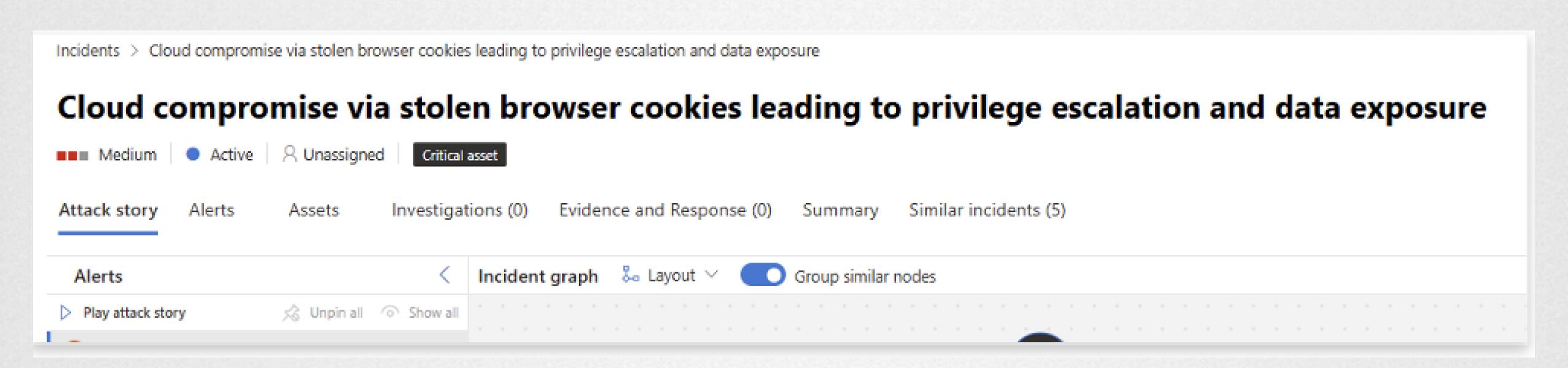


Expand Attack Path Analysis



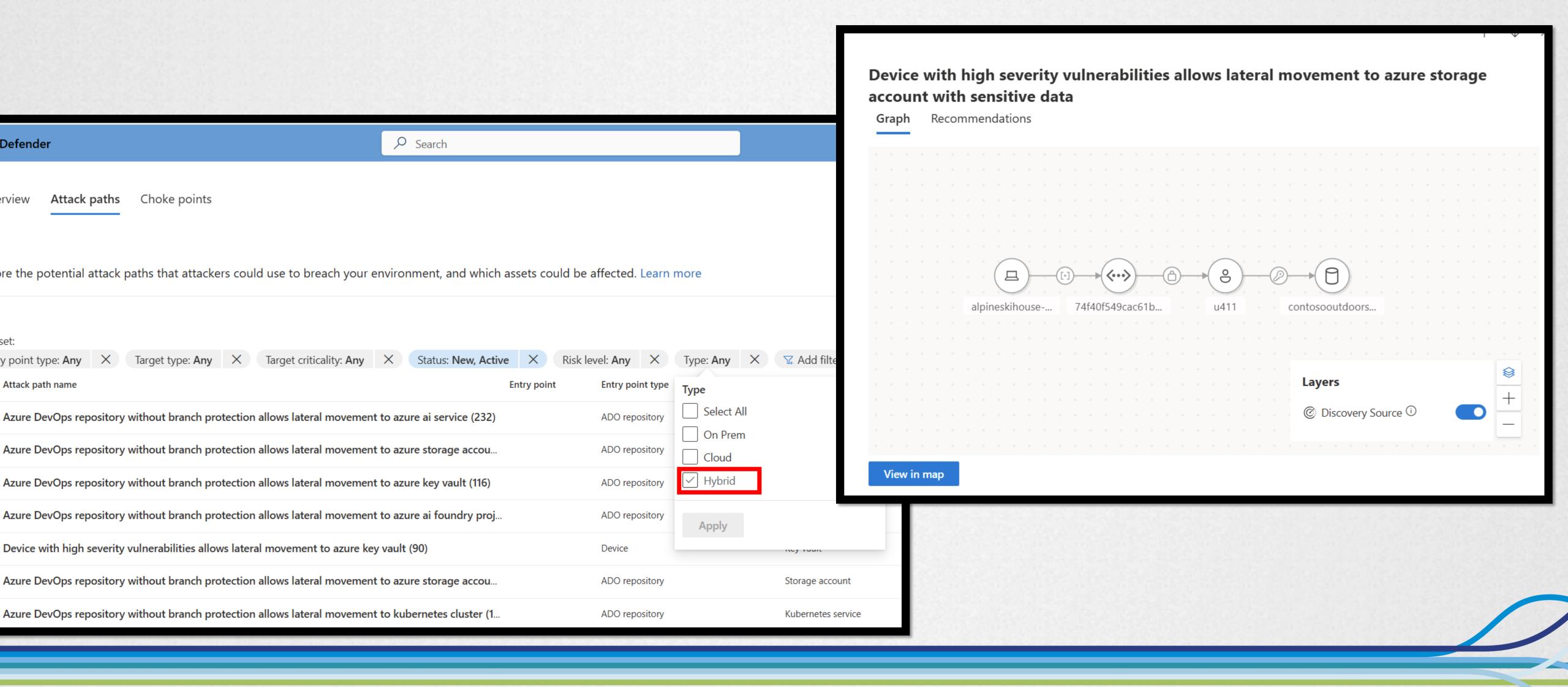


Expand Attack Path Analysis





Expand Attack Path Analysis





Blast Radius Analysis drives better response

Track attack progress on the map

Understand potential attack destinations

"Where are they going?"

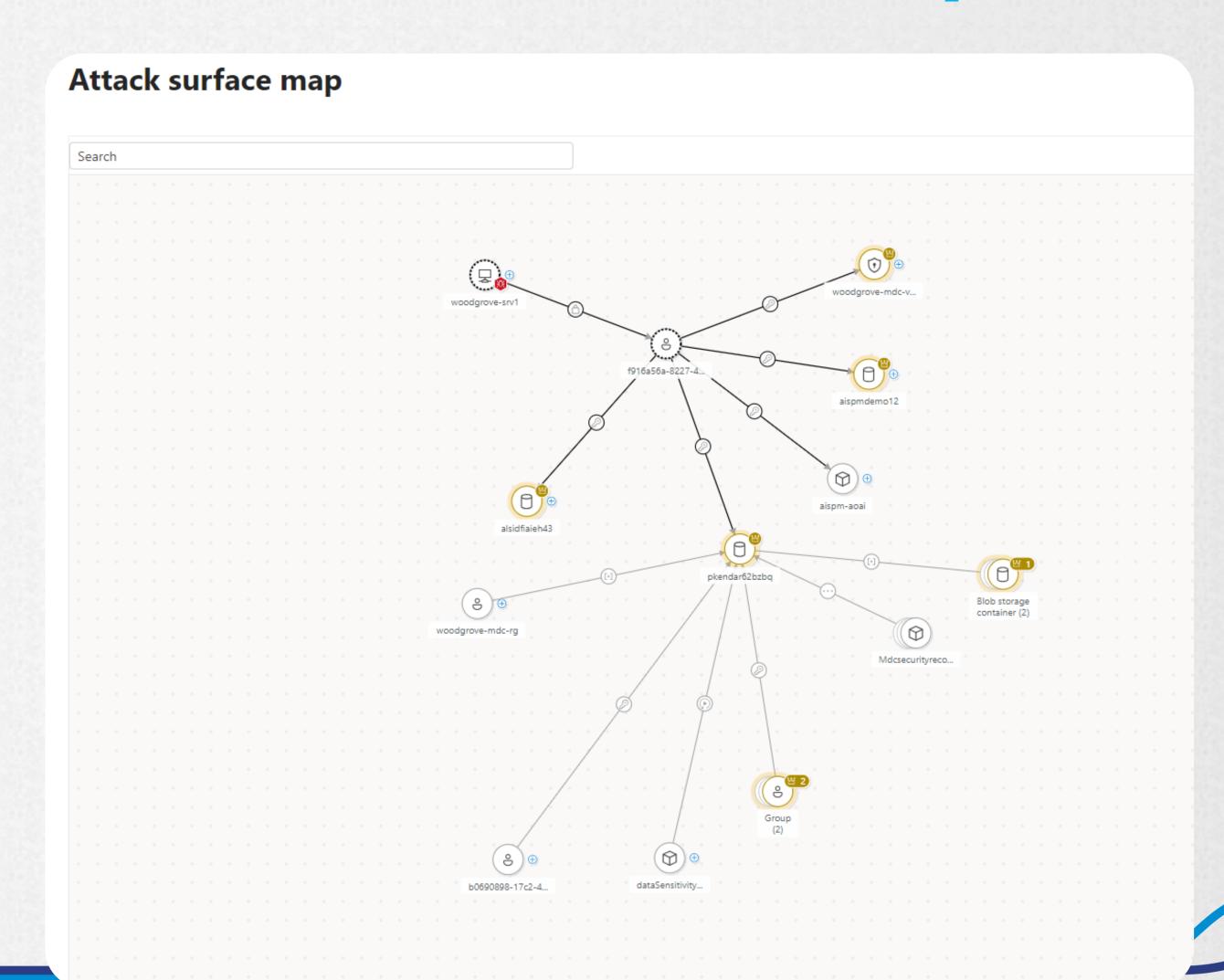
Identify alternative similar attack vectors still open

Understand the other ways attackers can exploit similar paths

Better, more informed response

"Shields up" for the potential target:

- Proactive & preemptive posture changes
- Aggressive blocking on path
- Deception in path



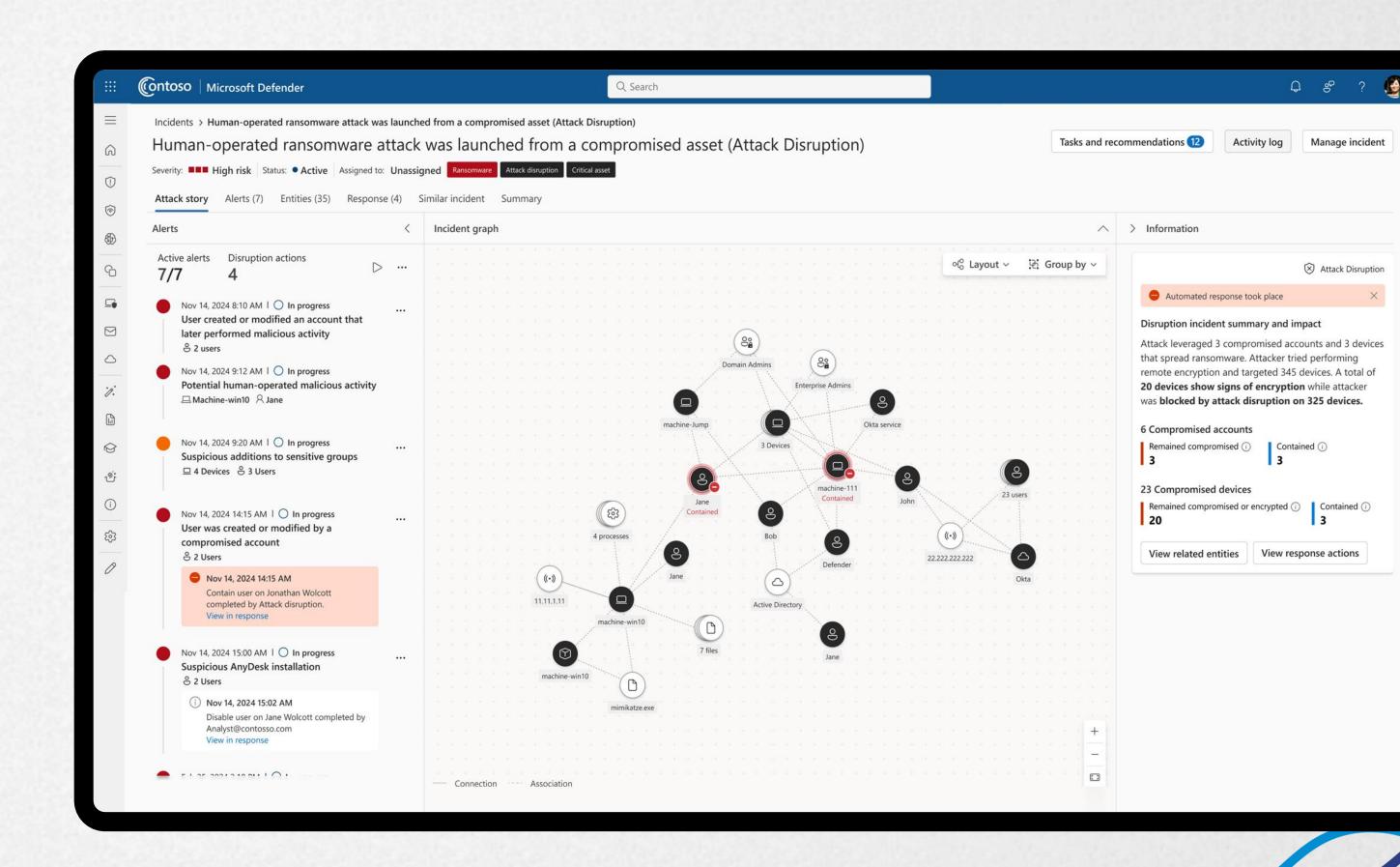
Experts Live Austria

Automatic Attack Disruption

Disrupts in-progress attacks like ransomware, business email compromise, adversary in the middle and more with above 99% confidence

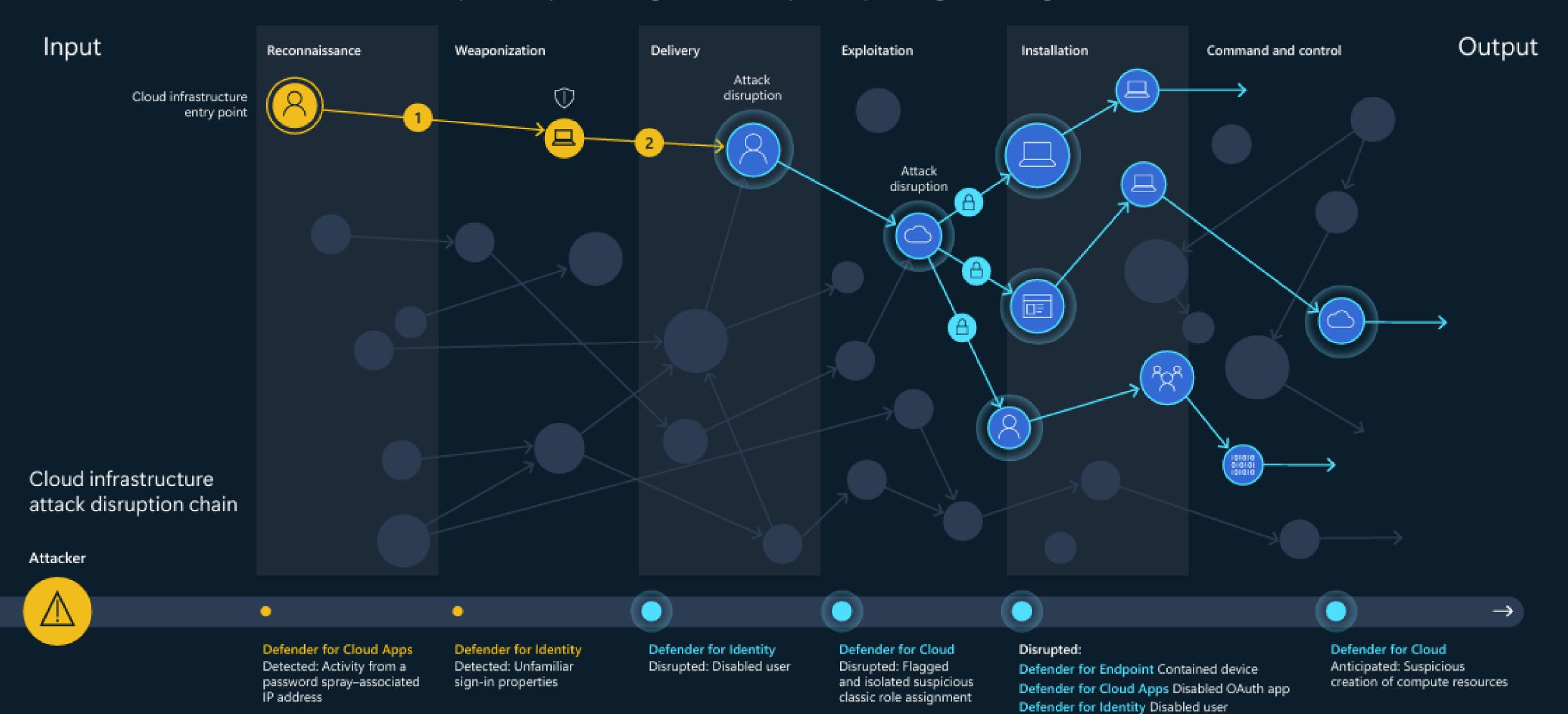
Analyze the attacker's intent, identifies the compromised assets (i.e., user, device) and contains them in near real time

Uses the correlated signals in XDR, AI, the latest TI and ML backed models to accurately predict the attack path and block the attacker's next move



Automatic attack disruption | Cloud infrastructure

Automatic attack disruption leverages cross-domain visibility to identify and stop threats earlier in the kill chain, using advanced mapping to detect malicious activity and harden protection before it progresses laterally. In this instance by using attack disruption SecOps teams have detected, intercepted, and anticipated a complex attack path, isolating real-time attempts while predicting and blocking alternative routes.



Automatic attack disruption impact

3 min

average time to disrupt ransomware

35k incidents disrupted per month

6k

AiTM attacks disrupted per month

120k+

disabled user accounts in the last six months

180k+

devices saved from an attack in the last six months

Uses correlated signals, the latest TI and AI to stop attacks with above 99% confidence

Real-life customer stories:

A customer experienced an attack across:

- 10+ attack waves
- 10 compromised domain admin users
- 3 spreader IPs

Attackers targeted 2,000 devices, 97% saved 3% of devices were onboarded to a different security vendor and suffered encryption

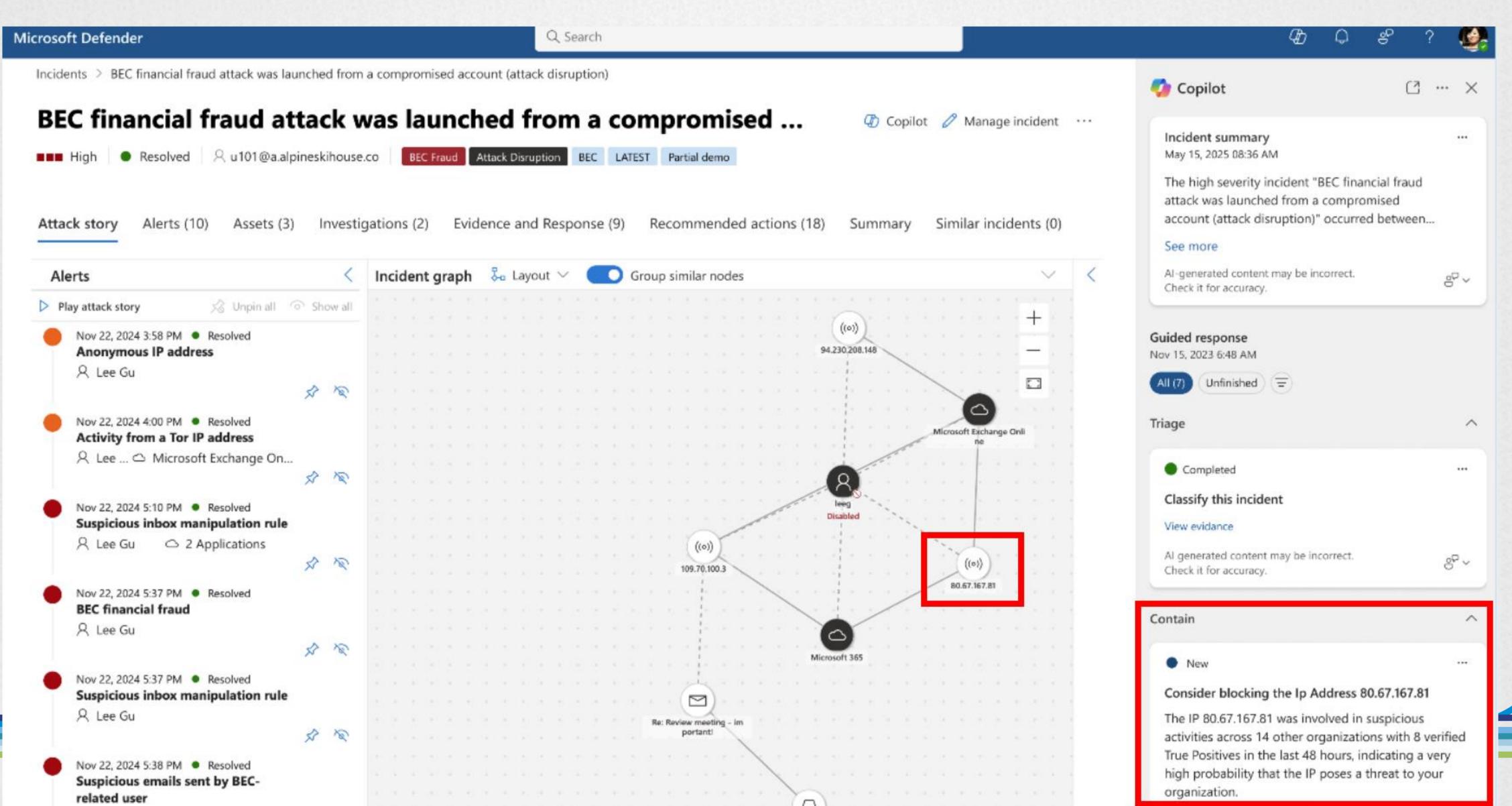
A customer experienced an attack across six users:

- 4 users were disabled at the initial access stage
- 2 users were disabled when the session cookie was re-used

Early disruption in the kill chain prevented a business email compromise attack



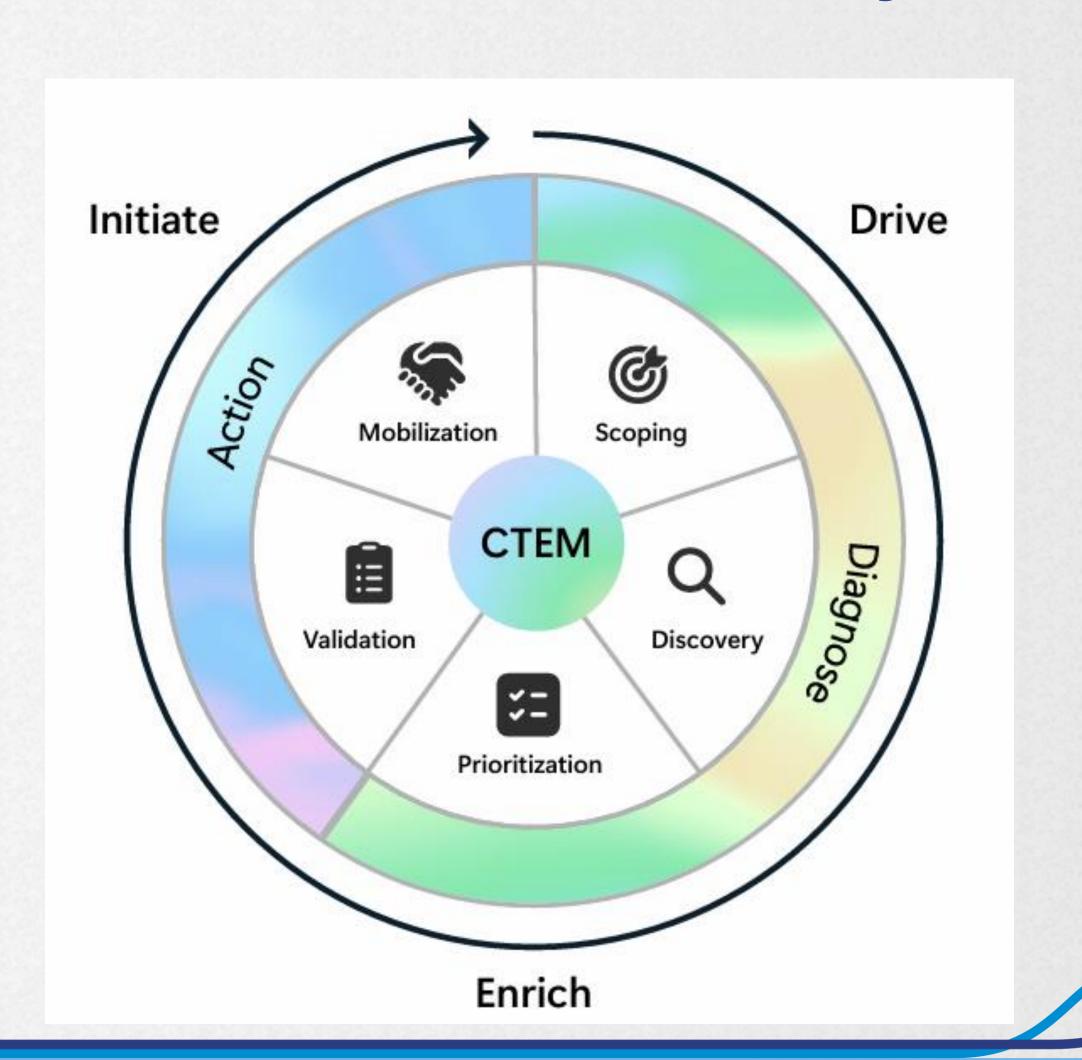
Titan Integration

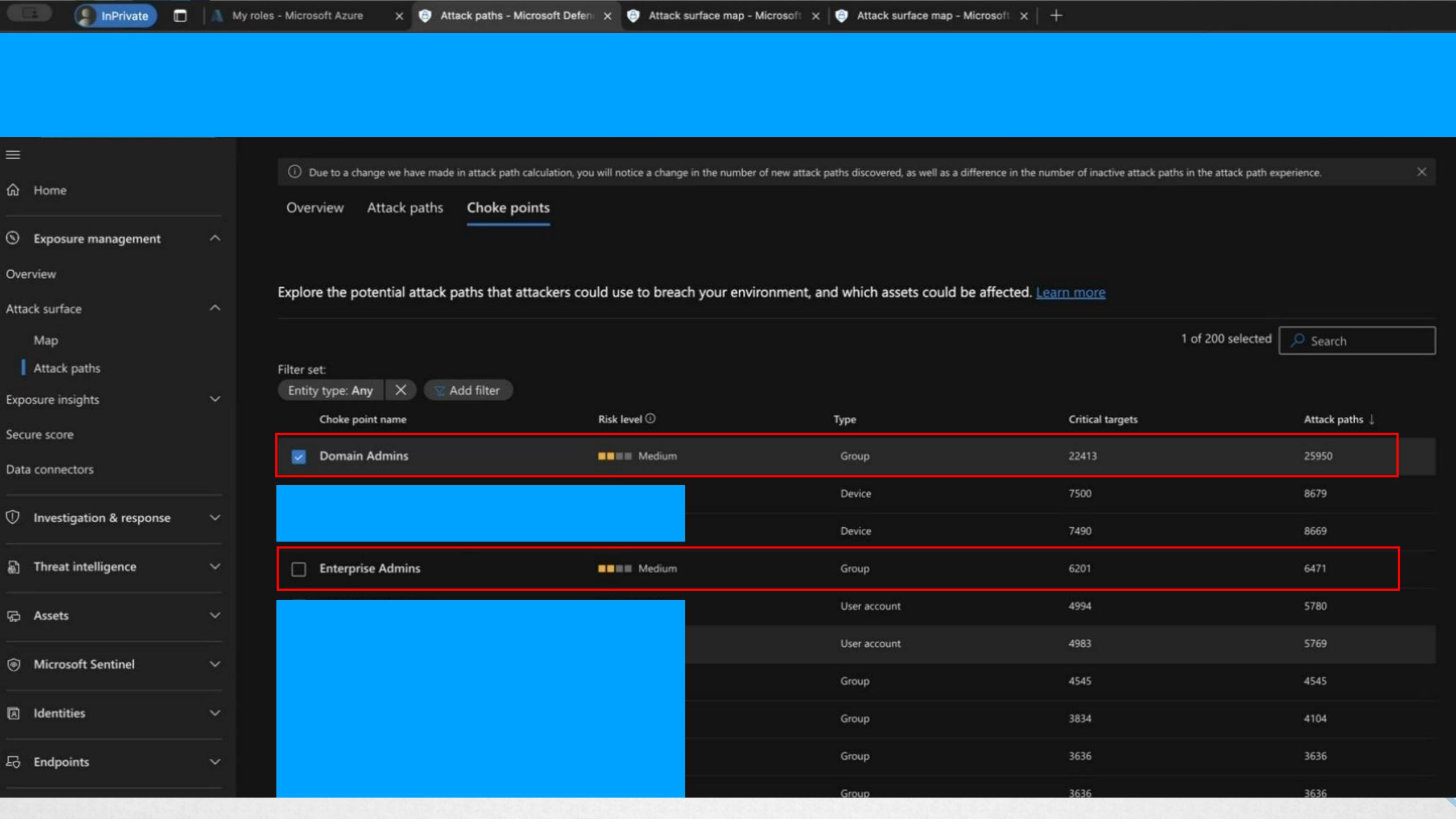




Building an Exposure Management Framework is key

- Start with Visibility
- Prioritize real risks
- Mitigate!!!







MS Exposure Management e-book

Ransomware attack mitigation

What can Microsoft Security Exposure Management do?

Endpoint vulnerability analysis

Continuously scan endpoints to detect unauthorized scripts, unpatched applications, and hidden ransomware indicators. Then, integrate signals from Microsoft Defender for Endpoint and Microsoft 365 Defender to compile a prioritized remediation list.

Threat intelligence correlation

Take advantage of global threat intelligence feeds to identify malicious IP addresses, phishing domains, or known ransomware behaviors associated with Octo Tempest.

Attack path reduction

Microsoft Security Exposure Management identifies risks such as privilege escalation, external reachability, over permissions, policy misconfigurations, and visibility blind spots.

Mitigation guidance

Provide step-by-step recommendations to isolate infected systems, update security policies, and strengthen email hygiene configurations.

Outcomes

Contained encryption spread

Visibility from the Microsoft Security Exposure Management platform enabled Global Finance Corp to reduce ransomware exposure. This allowed the organization to see the risk of certain unpatched servers, prompting swift containment and halting adversarial lateral movement.

Protected critical care systems

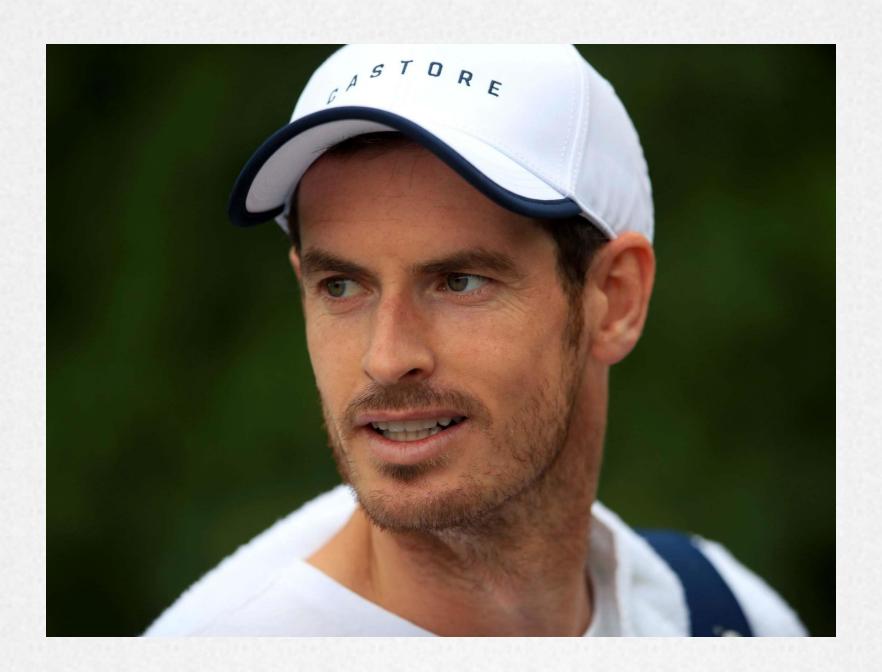
Microsoft Security Exposure Management surfaced IoT/OT segmentation vulnerabilities, enabling policy adjustments that kept ICU monitoring devices isolated from ransomware infiltration. Continuous exposure monitoring ensured no downtime for lifecritical systems, maintaining operational stability.

Cost-effective recovery

Microsoft Security Exposure Management reports flagged nine high-priority Common Vulnerabilities and Exposures, leading to immediate patching that saved an estimated USD2.1 million in potential recovery costs. This prioritized remediation workflow cut incident response times, reducing forensics overhead.



Summary



"Control what you can control"

- Andy Murray (ranked #1 ATP 2016)



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Danke!

Closing Subtext

