

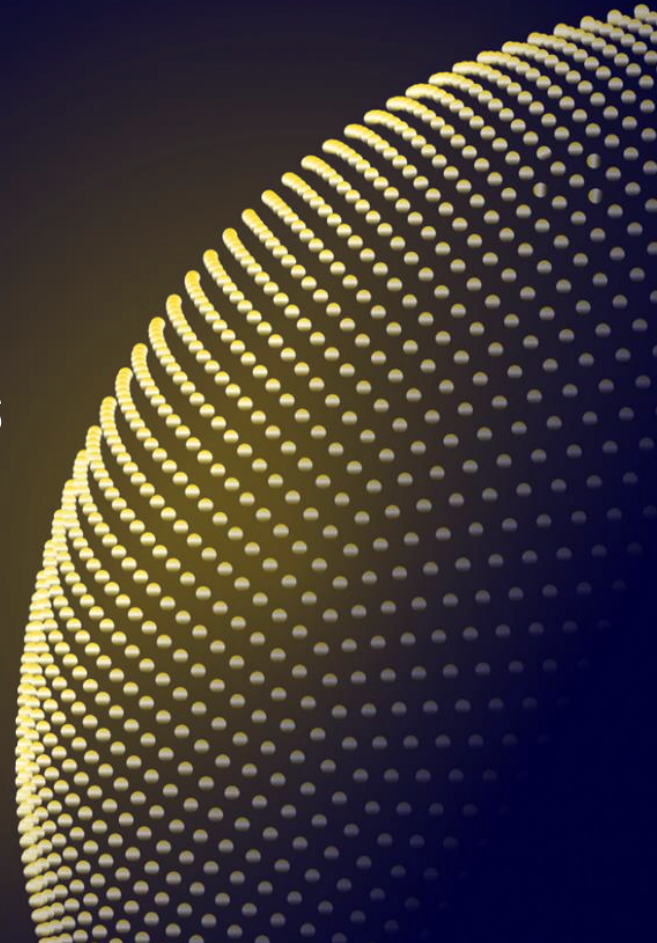


# Continuous Exposure Management – Why thinking like an attacker is an efficient way to shape your remediation

**Wayne O'Young**, Regional Manager

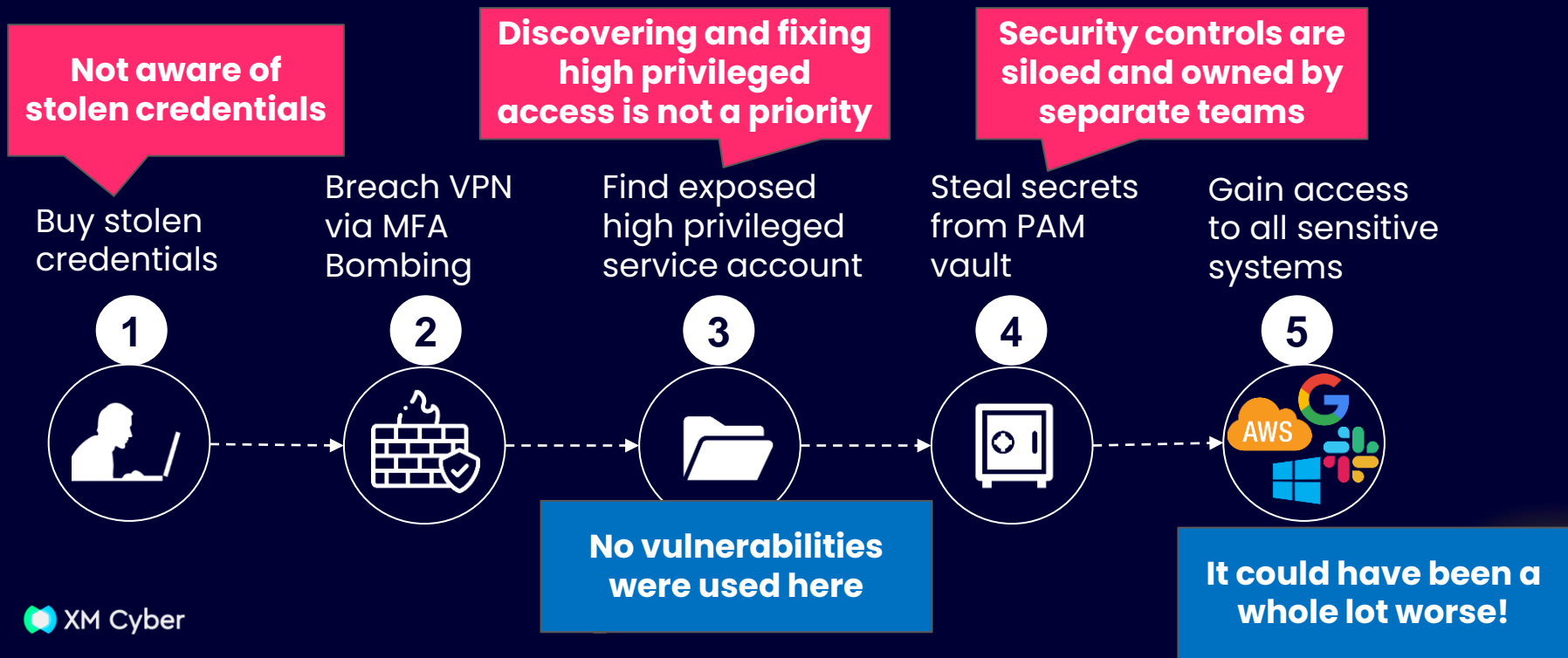
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# Why Attackers Are Successful

## Real Life Attack Kill Chain



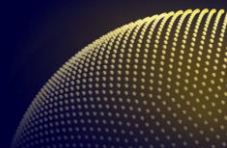
# What motivates the hackers | Threat actors | Adversaries | Cyber Criminals

- Nation-States
- Financial Gain
- Insider Threats
- Hacktivists
- Recognition & Popularity
- Malicious Payback



Maximum Impact

*The End Goal is to get to the crown Jewels.  
Understanding what the Crown Jewels are, from a risk perspective, is über important*



# Exposures Go Beyond Vulnerabilities



## Active Directory

- Member of group
- Add Logon Script
- DC Sync



## Vulnerabilities

- Follina CVE-2022-30190
- PrintNightmare CVE-2021-34527
- Log4j CVE-2021-44228



## Identities

- Group membership
- Excessive permissions
- Cached credentials



## Misconfigurations

- Publicly Exposed S3 Bucket
- SMB Signing disabled
- Default passwords



## Security Controls Configurations

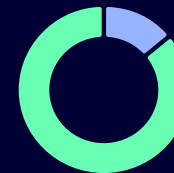
- Disabled Endpoint Protection Platforms
- Multi-Factor Authentication not configured
- Outdated signatures



86%

**of breaches involve stolen credentials**

(Google Cloud's 2023 Threat Horizons Report)



**credential issues account for**

60%

**of compromise factors**

(Google Cloud's 2023 Threat Horizons Report)

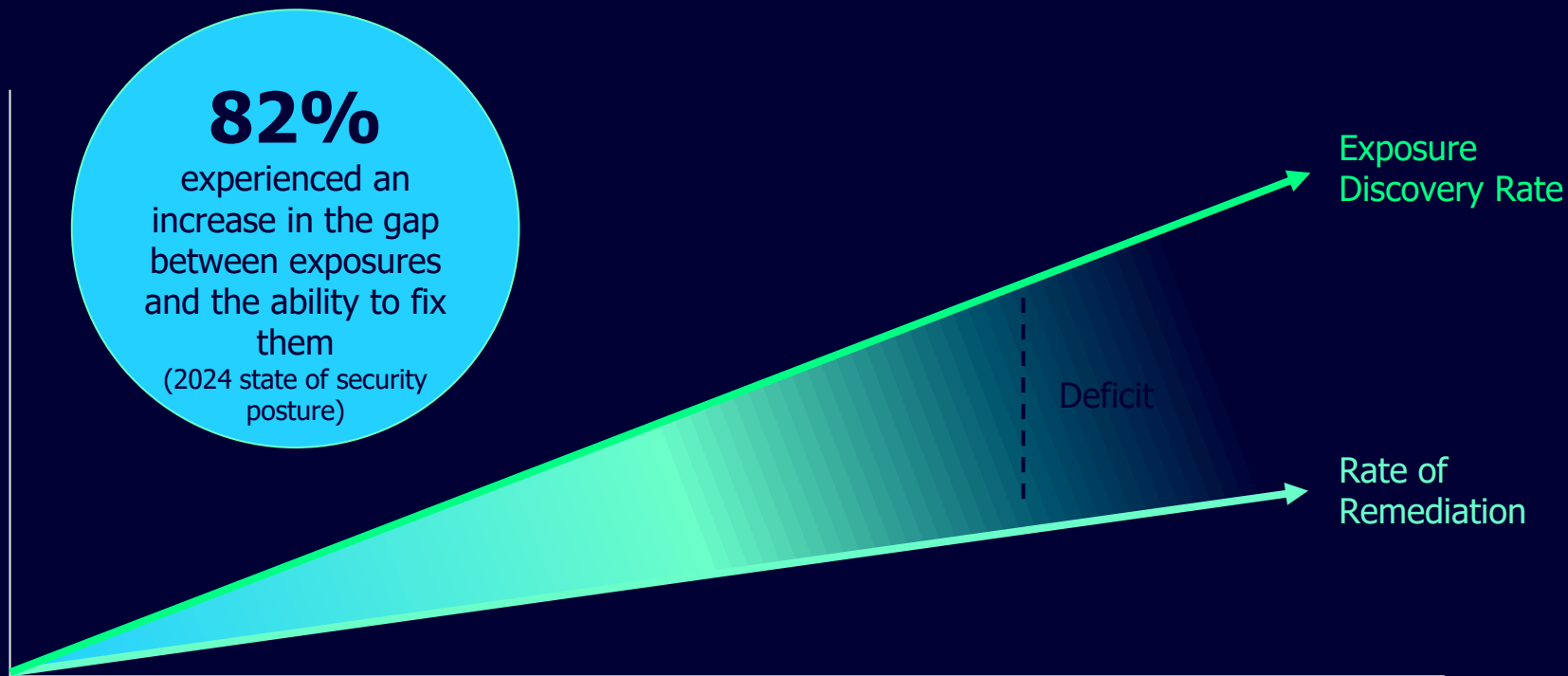


27%

**Of the top attack techniques involve vulnerabilities and misconfigurations**

(XM Cyber Attack Path Management Impact report 2022))

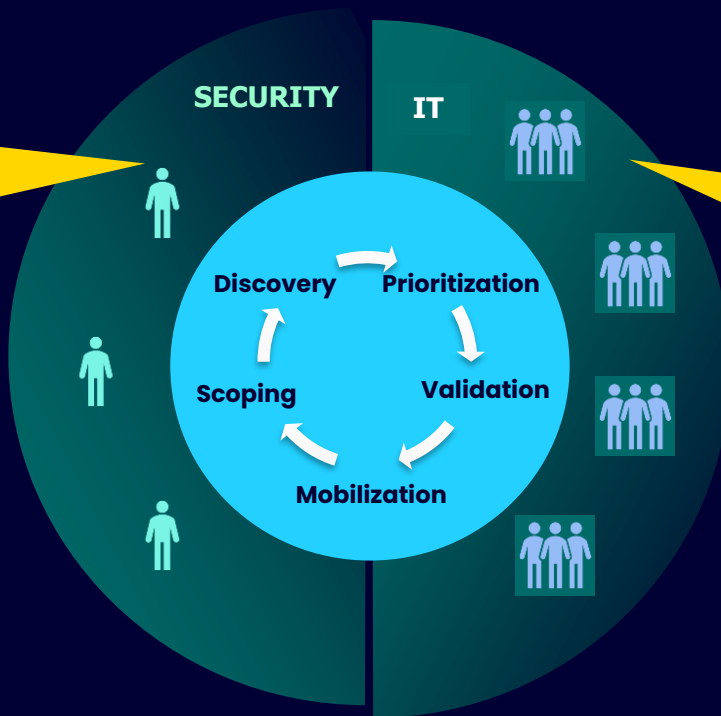
# The Remediation Deficit



# Disconnect Between Security & IT

**Security struggles** to get IT to complete remediations given lack of clear justification

**IT frustrated** by never ending and growing lists of tasks that lack clarity on risk impact



Can't secure business at the pace it's moving



Highly inefficient and unscalable model



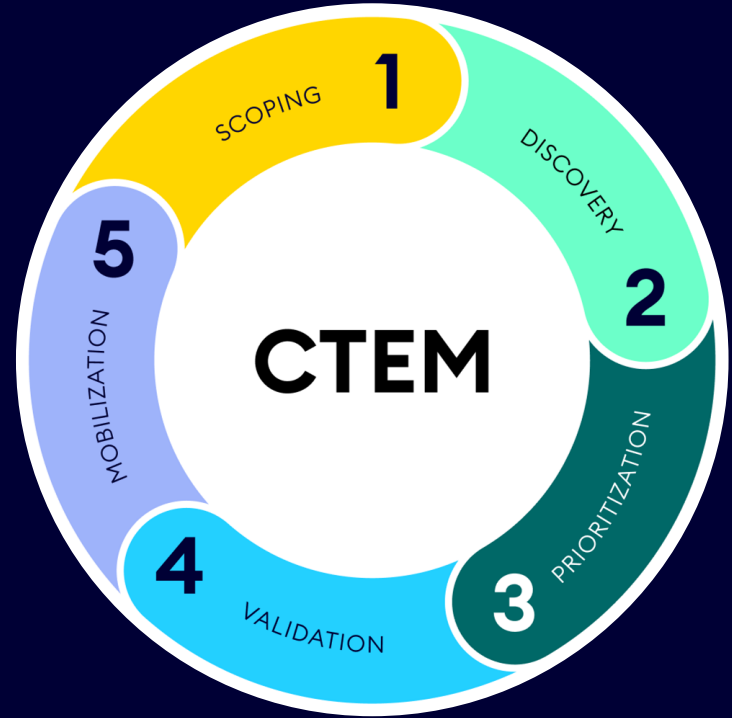
Problem is getting worse!

# What is CTEM?

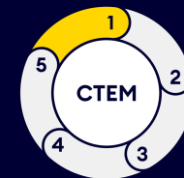
Continuous  
Threat  
Exposure  
Management

**No. 2 on Gartner  
Top Strategic Technology Trends 2024**

<https://www.gartner.com/en/articles/gartner-top-10-strategic-technology-trends-for-2024>

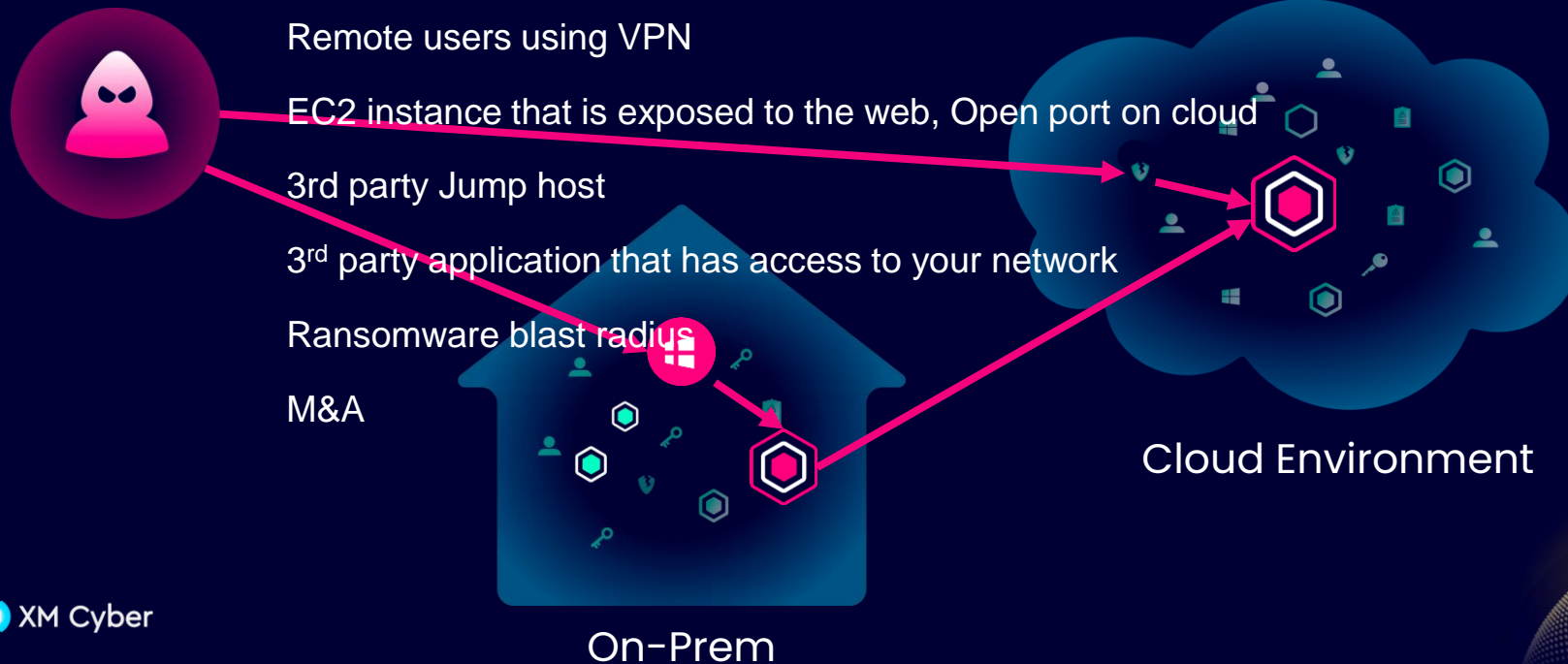


# Scoping: Define “Business Critical”



Where Are Your Critical Assets?

What are the most risky Threat Scenarios?





# Discovery: Where Are You Exposed?



Misconfigurations



Credentials



CVEs



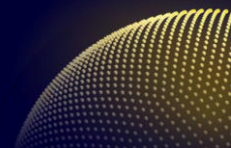
Cloud



Active  
Directory

**Discovery**

**A Single View Across  
All Exposures**



# Siloed tooling

Source: XM Cyber State of Security Posture Report 2024

## Companies' Processes for Addressing Exposures Across On-Prem and Hybrid Cloud Environments

The responses reveal that, in about half of organizations (47%), separate processes and/or teams are responsible for addressing exposures across on-prem and hybrid cloud environments.

In contrast, 42% of organizations manage exposures holistically, considering both on-prem and hybrid cloud environments as part of an integrated strategy. This means that the majority (58%) opt for ad-hoc or siloed approaches, relying on separate teams and processes for each environment. This puts organizations at a significant disadvantage in effectively combating the dynamic tactics of cyber adversaries, who often operate seamlessly across environments.

This suggests a need for organizations to assess their strategies for exposure management and consider whether a more integrated, holistic approach could enhance efficiency and effectiveness. The data highlights the ongoing challenge of aligning skill sets and tools across diverse environments, emphasizing the importance of strategic cohesion in managing exposures for both on-prem and hybrid cloud infrastructures.

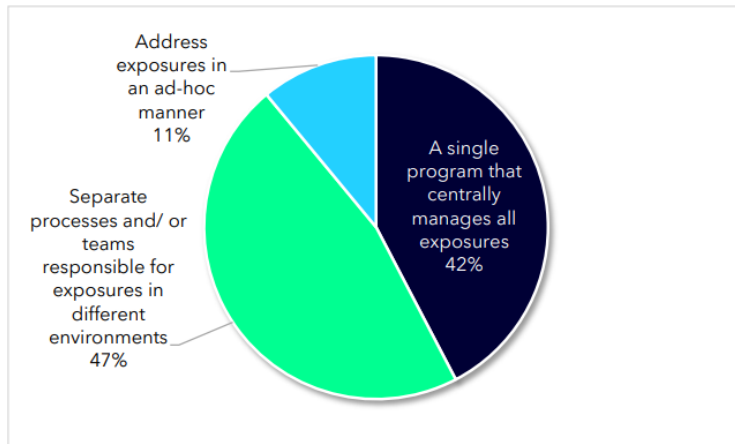
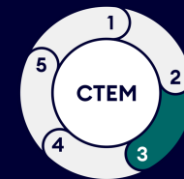


Figure 8: Companies' Processes for Addressing Exposures Across On-Prem and Hybrid Cloud Environments

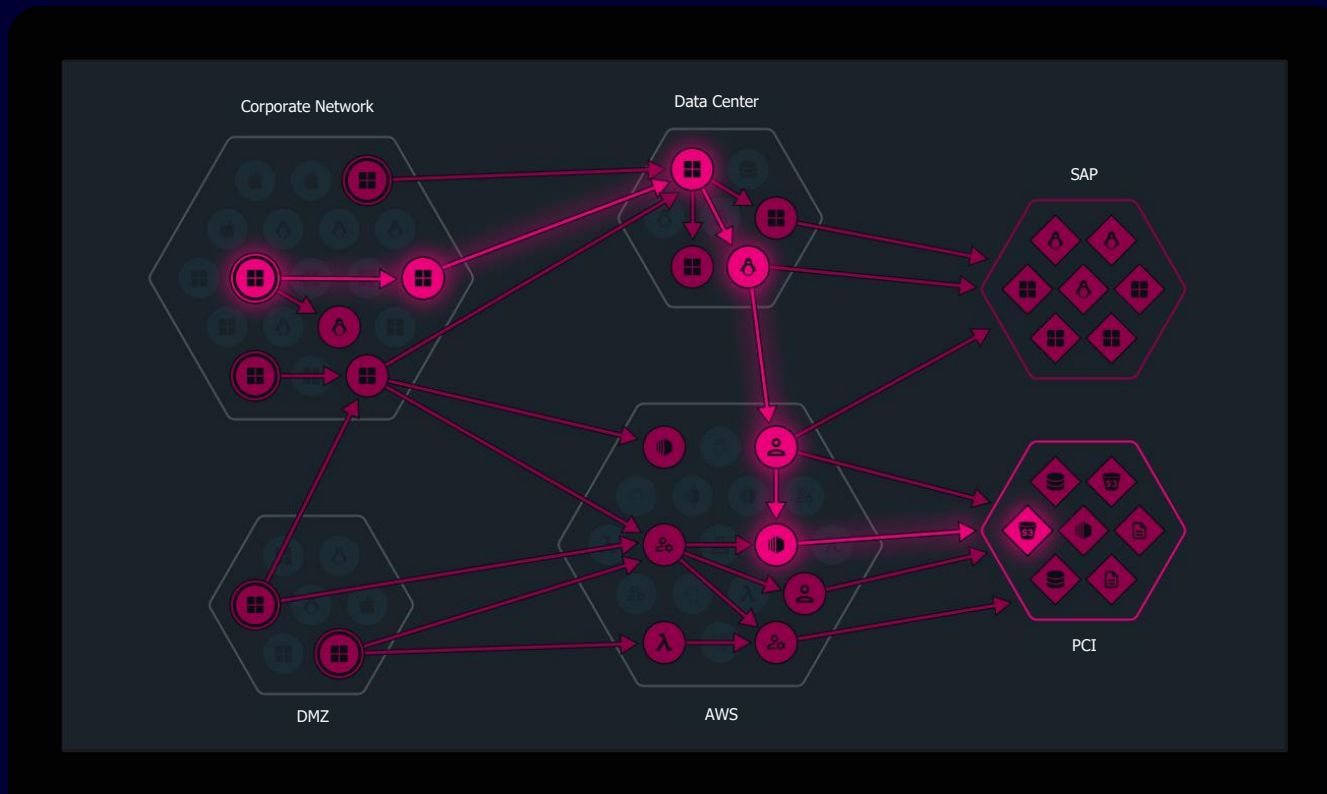
# Prioritisation: Attack Graph Analytics



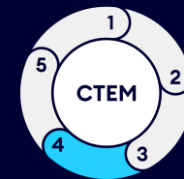
Consider the whole  
hybrid attack  
surface

Understand all  
possible attack  
paths to business-  
critical assets

Prioritise Threats in  
the Wild



# Validation: Attack Graph Analytics

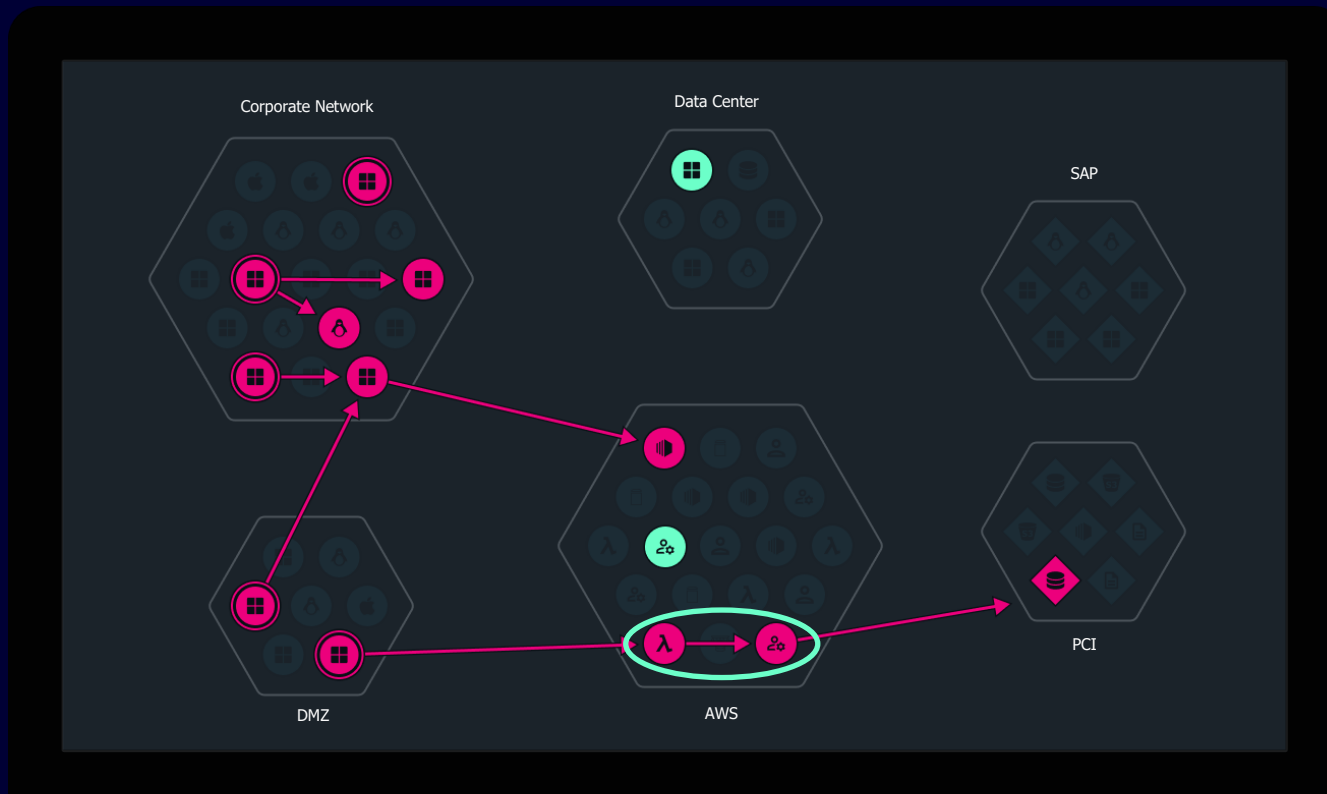


Understand where you  
don't need to focus

Focus on **Choke Points**,  
not Dead Ends

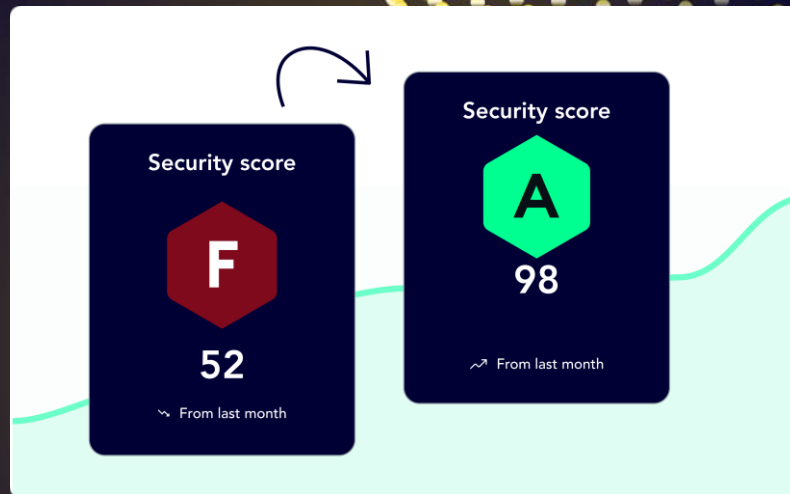
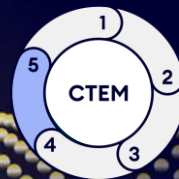
Close remaining easily  
exploitable attack paths

**Fix Less.  
Prevent More.**



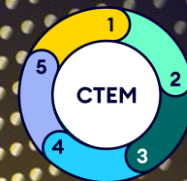
# Mobilization

- Justify Criticality
- IT Teams Focus Efforts
- Provide Guidance AND Alternatives
- Integrate with ITSM
- Track Progress



# Measuring and Reporting

- Measure the ongoing risk of your Threat Scenarios
- Embed within Board Reporting
- As your posture changes, react fast

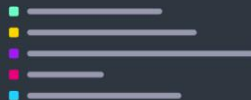


## Security score

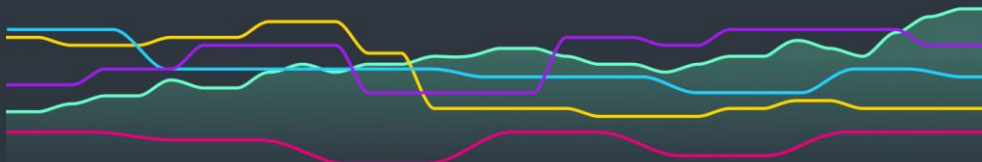


98

## Compare scenarios



Select scenarios



# Common Use Cases

Across Business and Operational Initiatives

## BUSINESS



**Digital Transformation  
& Cloud**



**Connected  
Supply Chain  
& 3rd Party  
Risk**



**Mergers &  
Acquisitions**



**Cyber Risk  
Reporting**

## OPERATIONAL



**Vulnerability  
Prioritization**



**Ransomware  
Readiness**



**Network  
Segmentation  
and  
OT Security**



**Efficiency**

# Outcome = A Winning Proactive Approach



## **Prevent High-Impact Attacks**

with Continuous, End-to-end Exposure Management



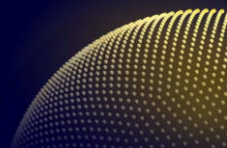
## **Gain Remediation Efficiency**

and Stop Prioritizing Issues That Don't Impact Risk



## **Establish a Common Language around Risk**

Foster Security & IT team alignment and improved reporting to the board





# Thank You.

Stand 20  
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