

# Moving from Vulnerability Management to Continuous Threat Exposure Management - A Carbery and IADT Use Case



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# Moving from Vulnerability Management to Continuous Exposure Management

A Carbery and IADT Case Study



# Attackers Evading Detection, Forcing Reliance on Posture

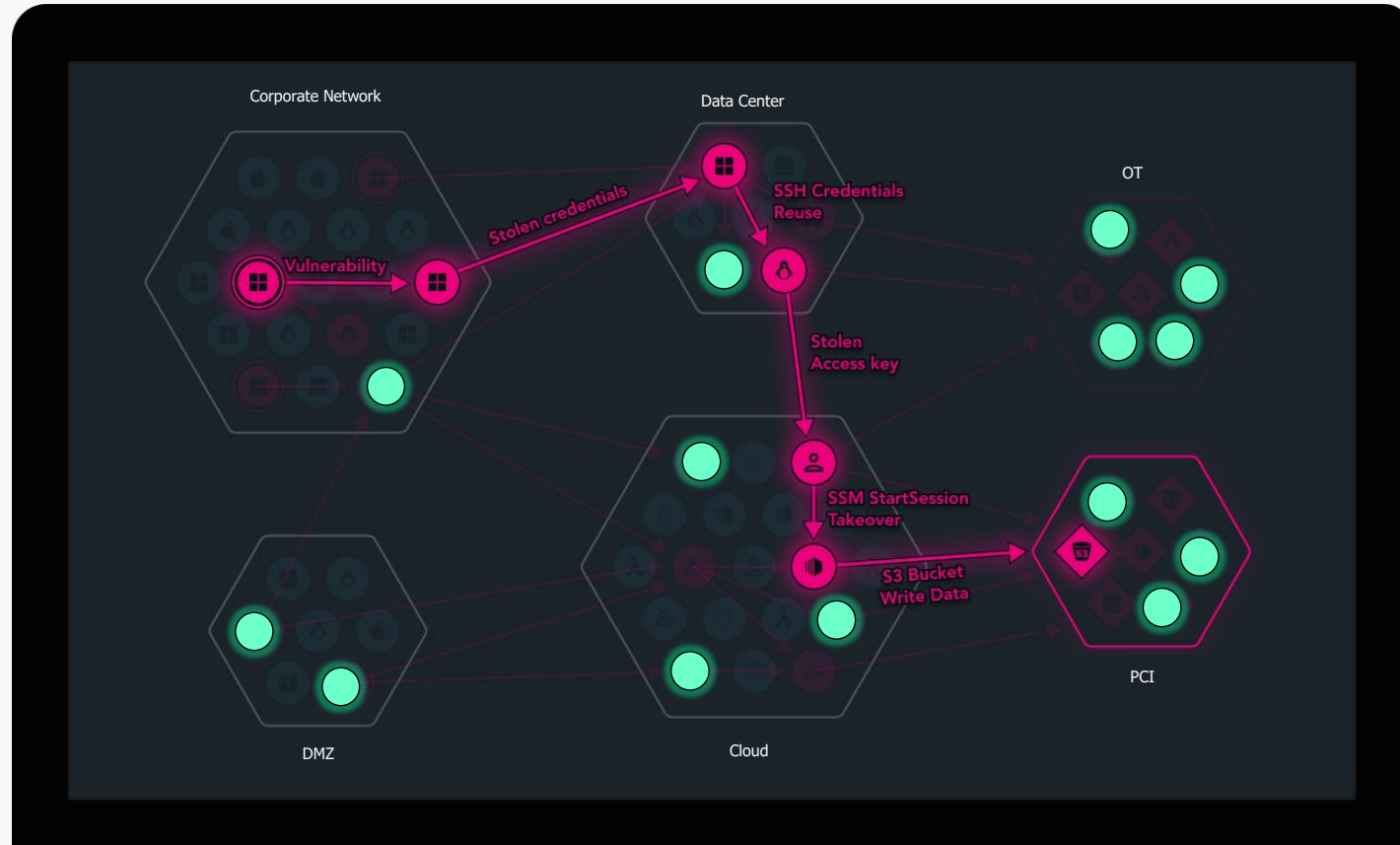


Bypass EDR & other controls

Exploit mix of CVEs, misconfigs & identities

Move laterally across hybrid environments

**Gives advantage to attackers**




Overwhelming lists of exposures—can't fix them all

Siloed technologies for different environments

Don't know where most vulnerable to attack

**Busy fixing the wrong things**

 Remediation effort completed

# 75%

of exposures aren't on attack paths to an organisation's critical assets... yet organisations are still focusing on fixing these

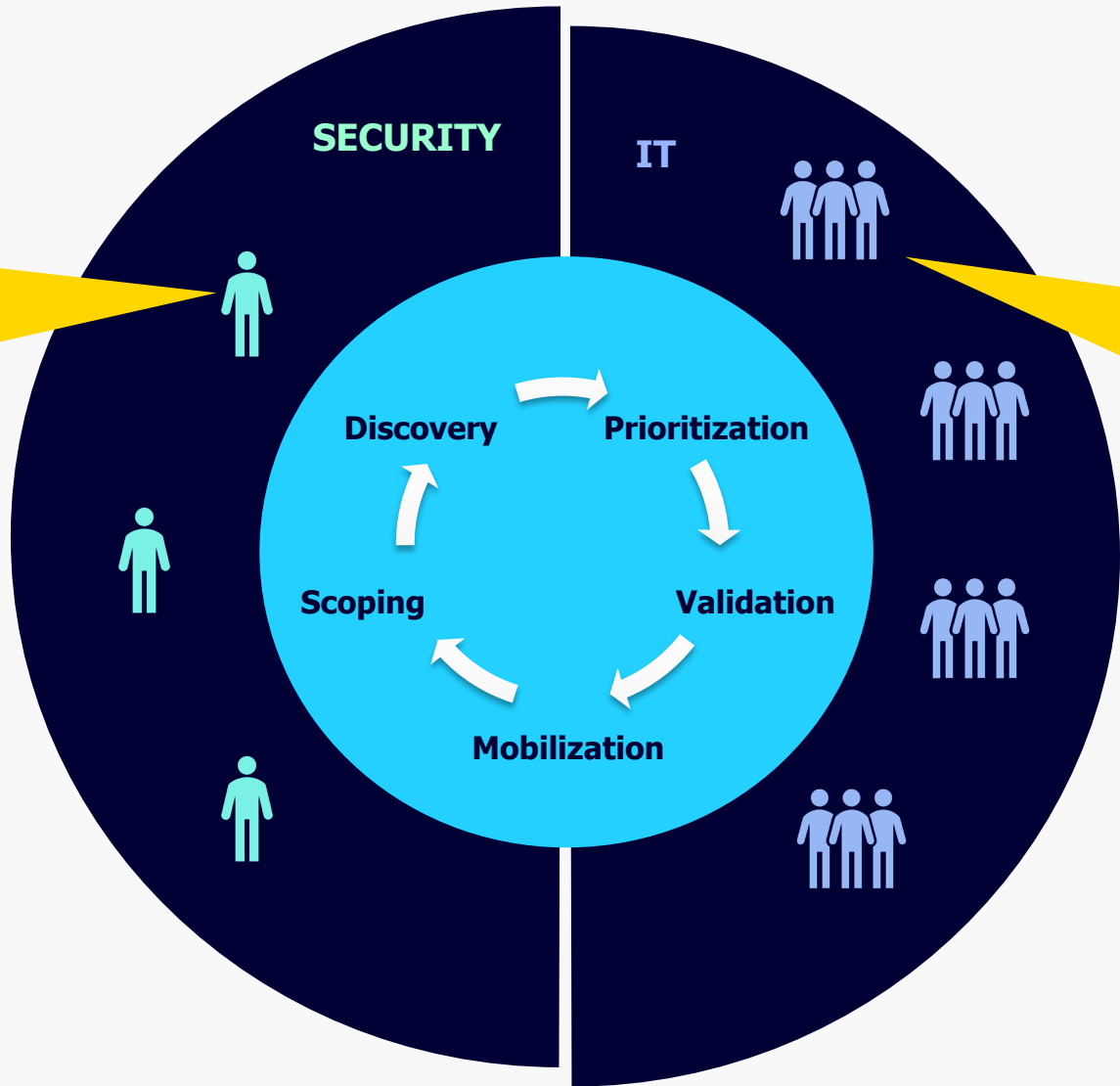
2024 State of Exposure Management Report, XM Cyber



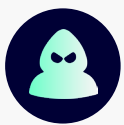
# Disconnect Between Security & IT

**Nobody Wins & Unnecessary Business Risk Remains**

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

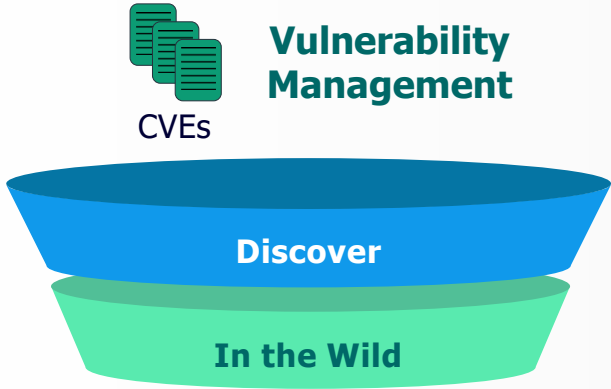
**IT frustrated** by never ending and growing lists of tasks that lack clarity on risk impact



-  Can't secure business at the pace it's moving
-  Highly inefficient and unscalable model
-  Problem is getting worse!

# More Coverage, Smarter Prioritization, Fewer Fixes

Automated Discovery of How ALL Exposures Come Together To Put Critical Assets At Risk

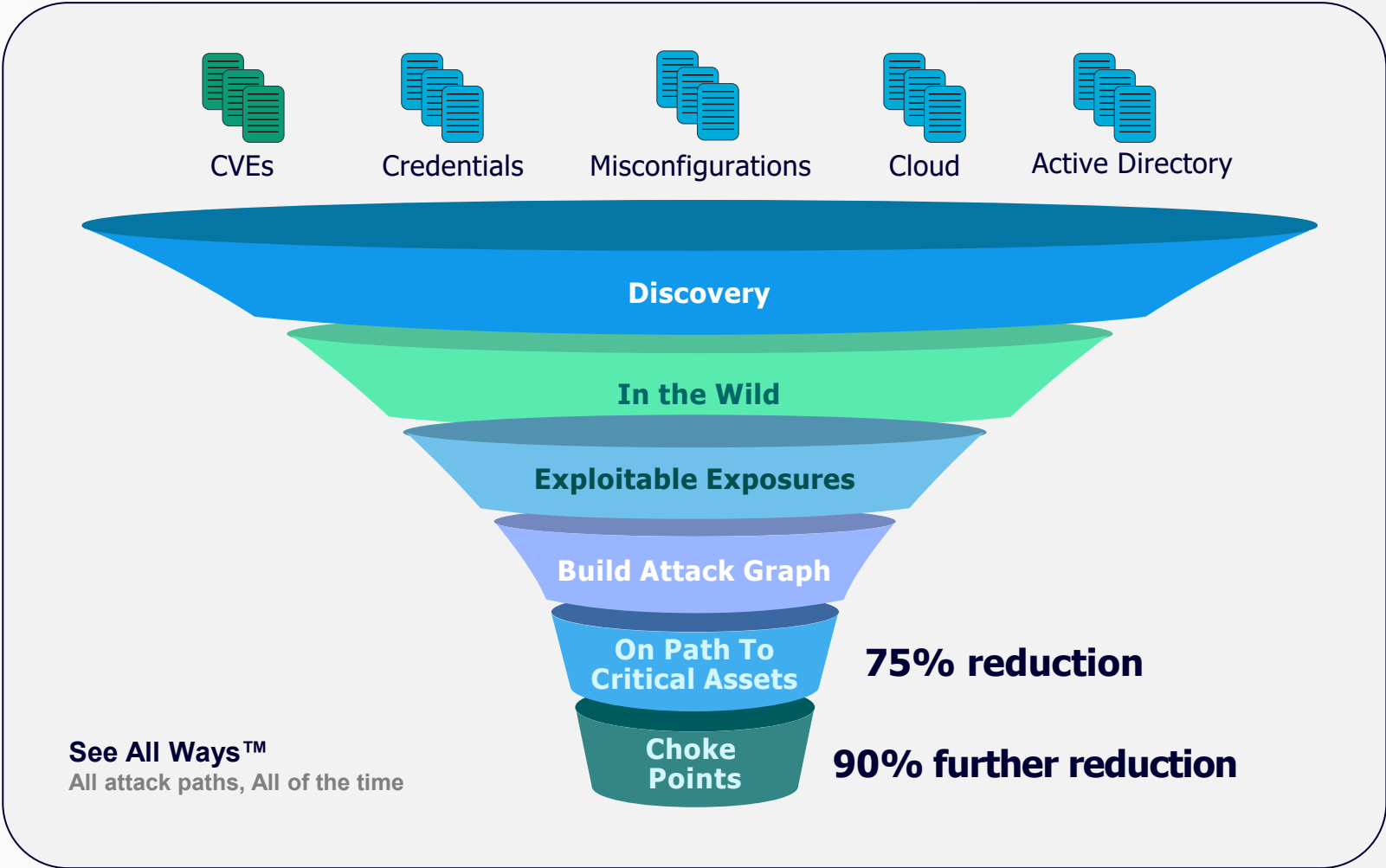


- Long lists of only CVEs
- No attack path insight



## Red Team, Pen-Test & BAS tools

- Limited attack path insight
- Not comprehensive, continuous or safe



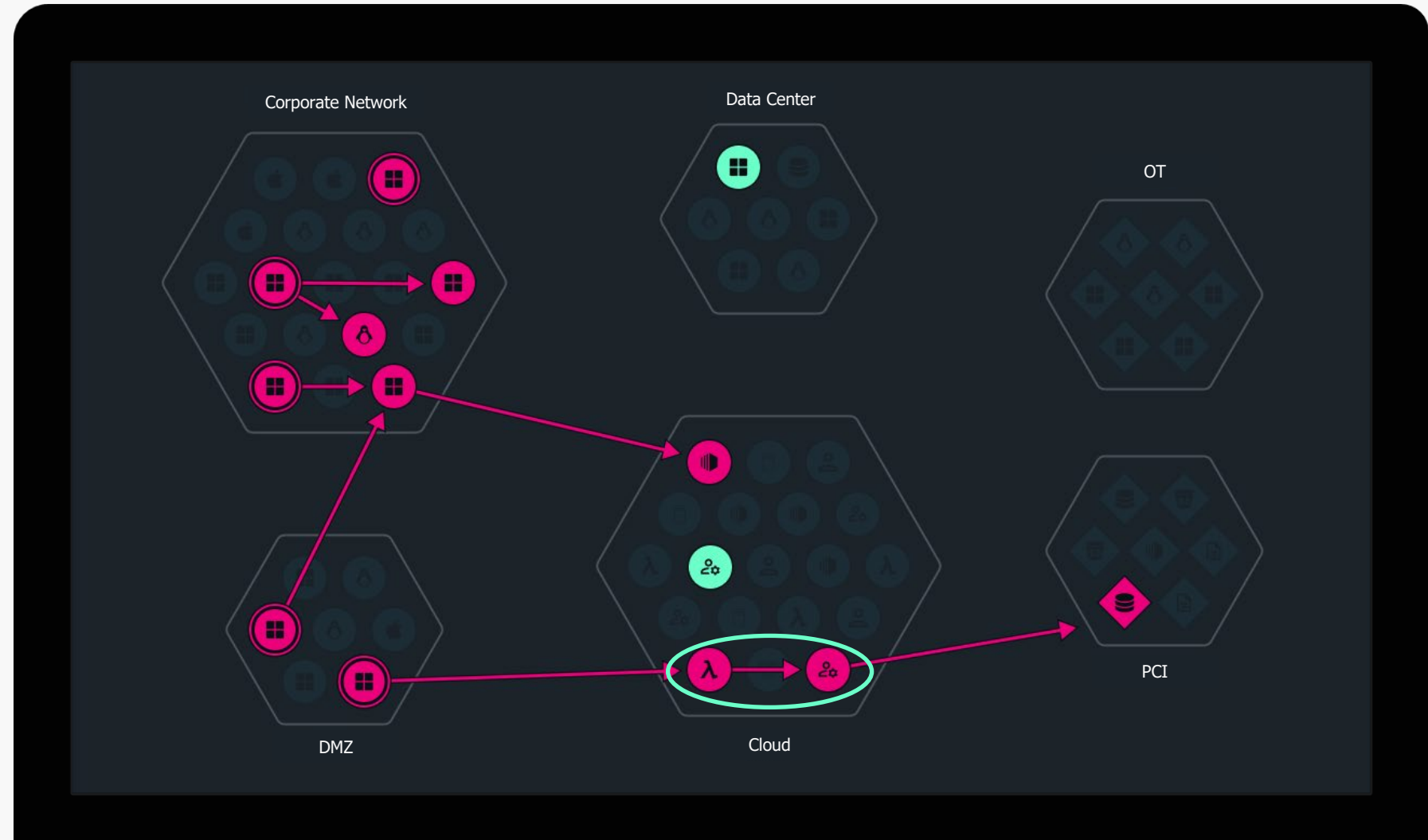
# A Smarter Approach – Attack Graph Analysis™

Identify **all attack paths**  
to business-critical assets

Enable remediation focus on  
**Choke Points**, not Dead Ends

Provide contextual, **guided**  
**remediation options**

**Fix Less.  
Prevent More.**



Organisations can practically eliminate  
all attack paths to critical assets by  
remediating

**just 2%**

of exposures that lie on choke points.

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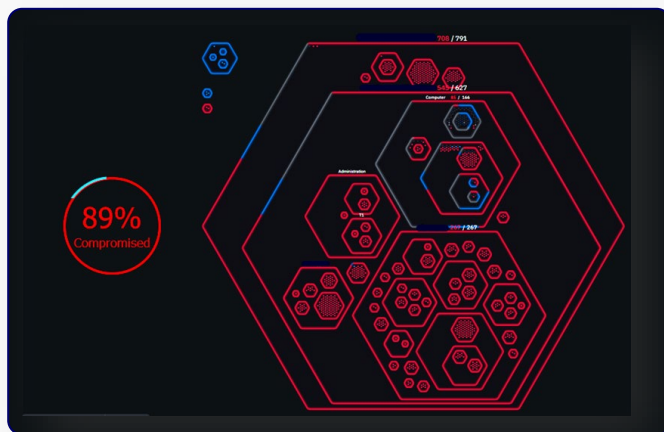


# Case Study: Fast, Demonstrable Risk Reduction

30,000 employee company goes from F (34) to A (100) in 4 months

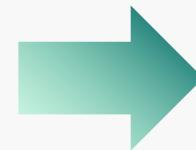


Example step in the journey: Ransomware scenario resolved in 1 day



BEFORE

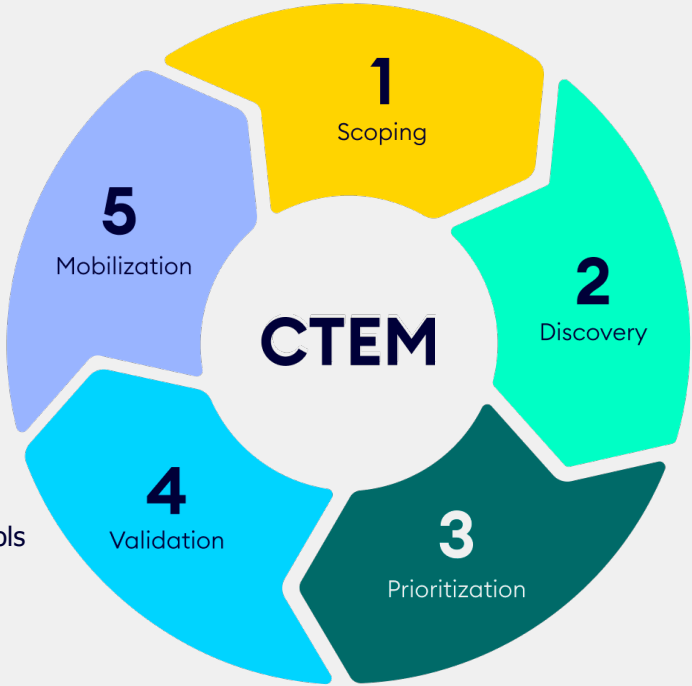
- Choke point on internet-facing file server
- 2 cached privileged credentials
- EDR not running, although installed



AFTER

# Operationalize Ongoing Risk Reduction

## Enables Continuous Threat Exposure Management



Enable business to operate securely with a scalable process

Answer "Where are we most vulnerable and what's being done?"

Foster Security & IT team alignment and efficiencies

Free up resources wasting time on the wrong fixes

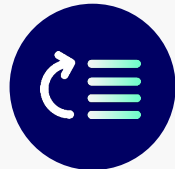
SaaS Delivery & Managed Service

# Accelerating Security Initiatives

## OPERATIONAL



**Ransomware  
Readiness**



**CVE  
Prioritisation**



**SOC  
Efficiency**



**OT Security/  
Segmentation**

## BUSINESS



**Digital Transformation  
& Cloud**



**Cyber Risk  
Reporting/  
Compliance**



**Supply Chain &  
3rd Party Risk**



**Mergers &  
Acquisitions**

# Carbery

## Challenge:

- Carbery Group split across Carbery and Synergy subsidiaries in Ireland and US (M&A)
- Risks from IT to OT/Manufacturing (OT)
- Shared infrastructure across the businesses
- On-prem and Cloud environments (Cloud Transformation)
- Agile business, rapidly changing (Continuous)

## Solution:

- XM Cyber deployed across On-Prem, AD and Cloud
- Choke Points identified and resolved across on-prem issues between businesses including segmentation
- Risks to Manufacturing eliminated
- Hybrid On-prem to Cloud risks eliminated

## Impact / Value:

- Improved cyber resilience to protect manufacturing and intellectual property that are key to keeping Carbery operational
- Measurable reduction in risk

XM Cyber



# IADT

## Challenge:

- Small team looking after a large complex campus environment (SOC Prioritisation)
- Student and Lecturer environments, 2500 students, 350 staff
- 3<sup>rd</sup> party access (3<sup>rd</sup> party risk)
- Student medical data

## Solution:

- XM deployed across on-prem and AD
- Prioritized choke points based on IADTs most critical systems that keep them running, or have critical student data

## Impact / Value:

- Improved segmentation and resilience based on XM Cyber attack simulations
- Eliminate risk from 3<sup>rd</sup> party access
- Patch and CVE prioritisation based on exploitability, not just vulnerability (CVE Prioritisation)



# Key Takeaways

What to consider on your CTEM journey

01

## Widen the scope

- Exposure goes beyond CVE
- Look across CVEs, Misconfigurations, AD, Cloud, Network to get a true understanding of posture

02

## Look at Cloud from all angles

- “Cloud” is not all Lambda functions and K8s
- Lift & Shift created “double bubble” risks
- VMs exist in Cloud with network connectivity to On-prem
- Domain joined VMs, AWS AD Service
- IAM attacks, Kubernetes

03

## Move to Continuous

- Have a process to review issues on a continuous basis, not just point in time
- Create relationships with the different teams that will remediate these issues, and give them context on the risk to operationalise

04

## Quick Wins

- Focus on the quick wins that need the least amount of effort for largest reduction in risk
- Plan mid to long term improvements like network segmentation based on your findings, backed by risk



**Q&A**

**Integrity360**  
your security in mind

**Thank you**