



Hey, Blue Teams: Stop Waiting for Pen Tests to Find Gaps.

Take Control of Your Offensive Testing.

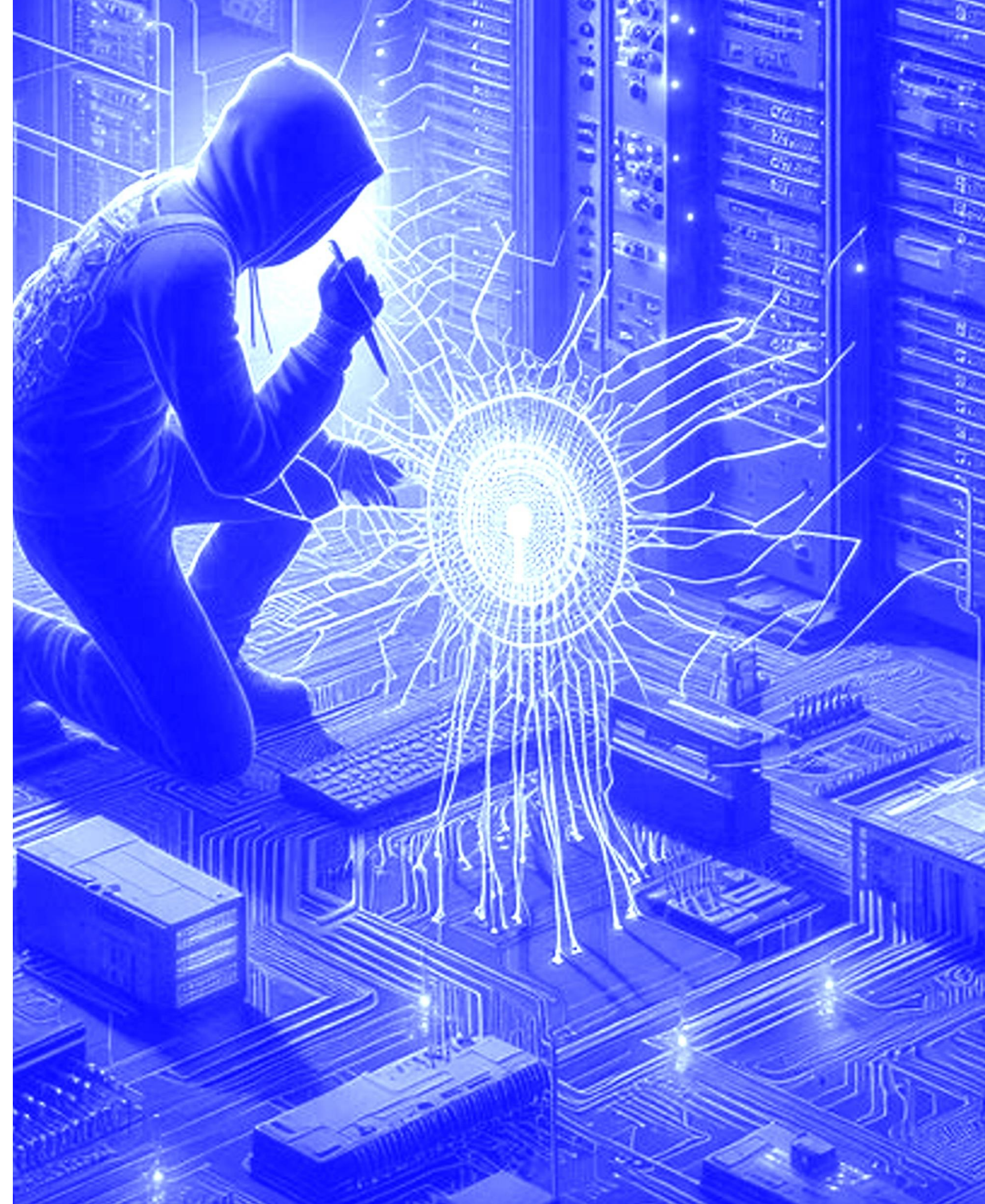
Brian Moran,
Senior Director of Product Marketing



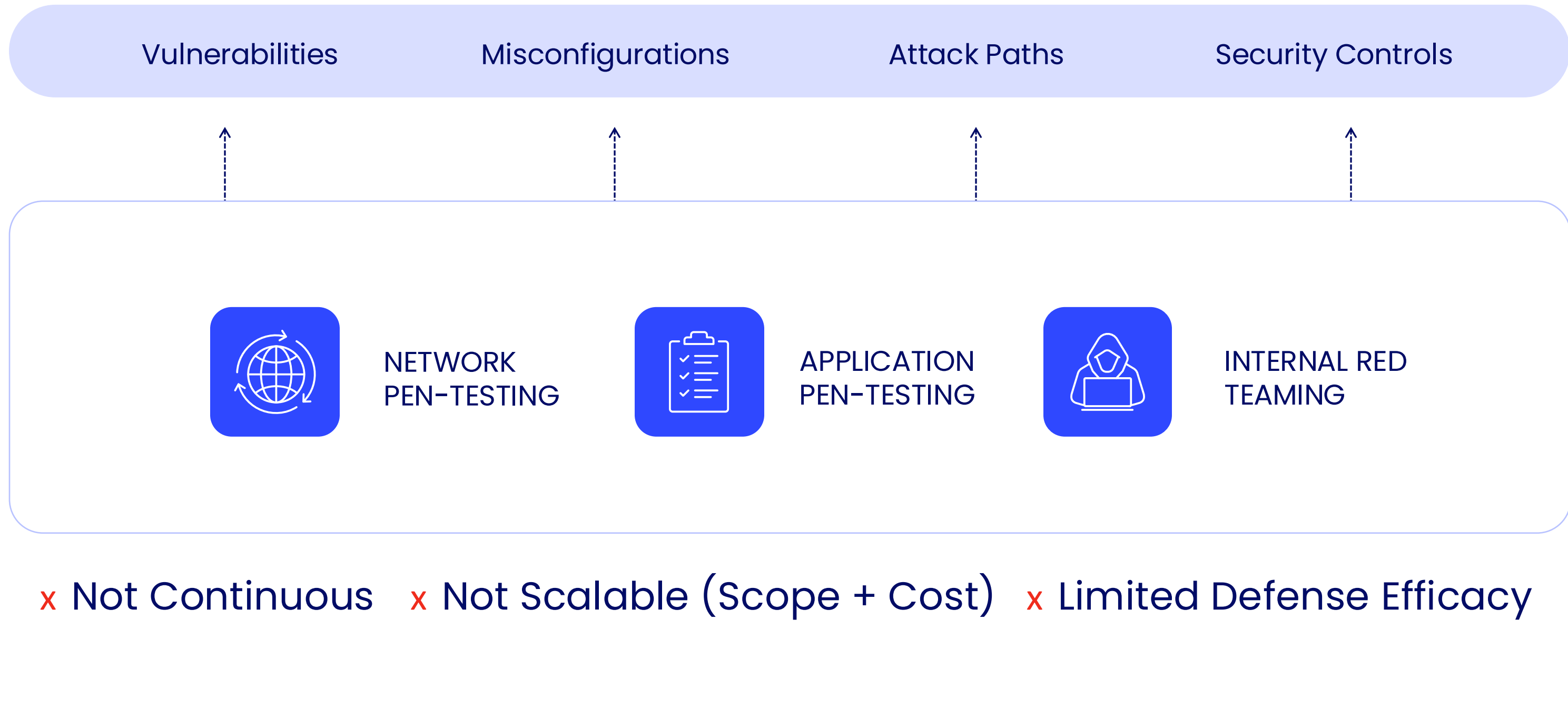
The Need for Security Validation

You know you have gaps.

Think like an attacker to find & fix those gaps to prevent the breach.



Breaking Down Manual Penetration Testing





Penetration Testing: Limitations

- Manual
- Costly
- Limited scope
- Point in time

In Search of Continuous Automated Testing



Vulnerability
Assessment



Attack Surface
Management



Automated
Penetration
Testing



Security
Controls
Validation



Vulnerability Assessment

- Identify outdated software
- Compliance mandated

Limits

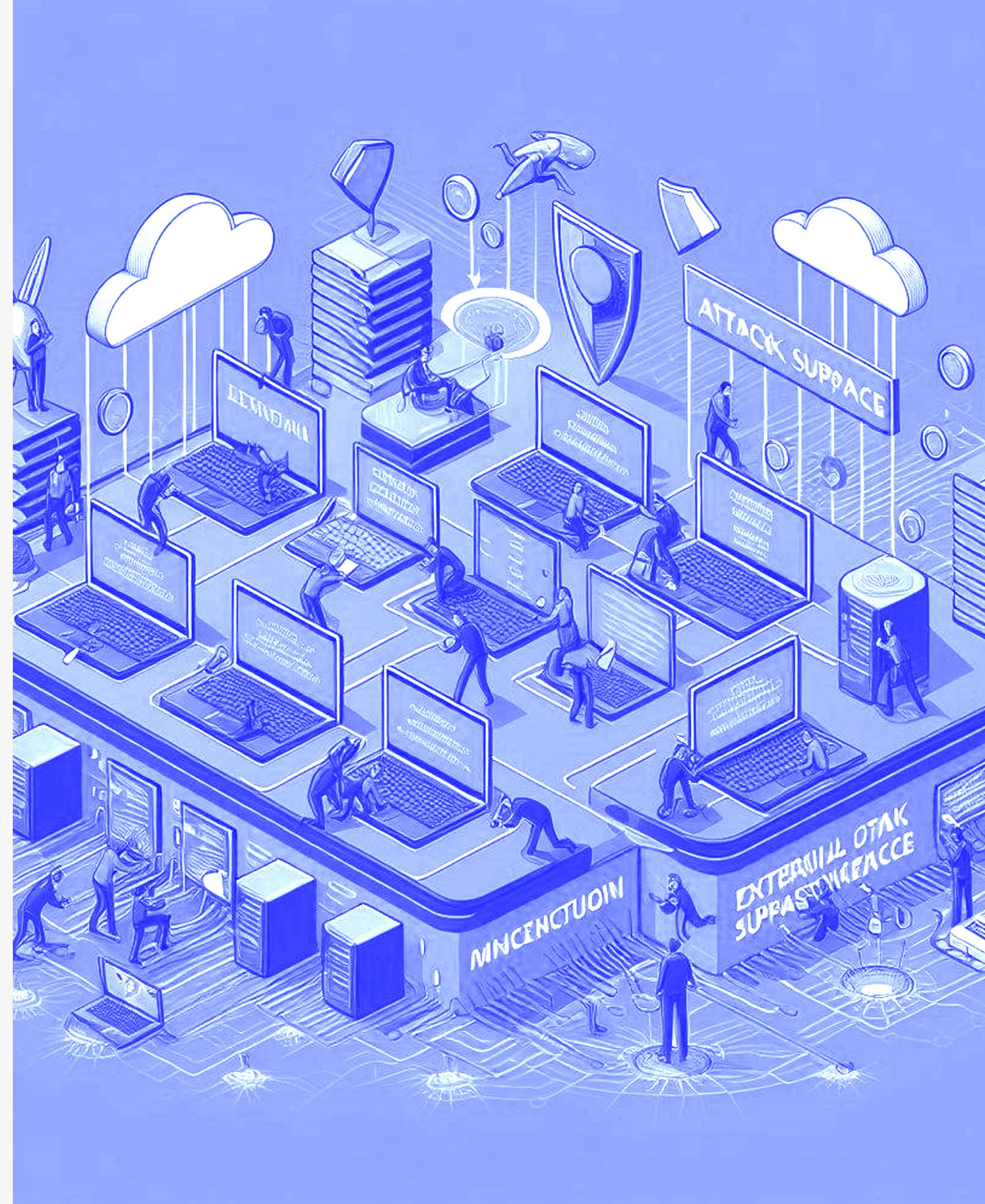
- Prioritization
- Cannot discern exploitable vs. unreachable vulnerabilities
- Remediation often relies on other teams

Attack Surface Management

- External attacker view of assets – including unmanaged assets
- Risky configurations
- Some vulnerabilities

Limits

- Theoretical (unproven) attack paths
- Lack context of security controls
- False positives or just noisy with low-severity findings





Automated Pen Testing

- Validate attack paths
- Discover vulnerabilities & misconfigurations

Limits

- Results overlap with vulnerability assessments
- Limited testing of controls

WEB GATEWAY

SOC

VULNERABILITY MANAGEMENT

SIEM

IT INFRASTRUCTURE

EMAIL GATEWAY

Security Control Validation



ENDPOINT SEC

ACTIVE DIRECTORY

CLOUD SECURITY

XDR

Test and optimize cyber defenses

NETWORK SECURITY

Security Control Validation

- Automatically identify gaps in security controls
- Monitor security control drift
- Test for new threats
- Prioritize initiatives based on gaps
- Know the state of cyber resilience
- Detection engineering & control tuning

Limits

- Exposure assessments
- Attack paths

Multiple approaches to Automated Security Validation

	Vulnerabilities	Misconfigurations	Attack Paths	Control Effectiveness
Vulnerability Assessment	●	◐		
Attack Surface Management	◐	●	◐	
Automated Pen Testing	◐	◐	●	◑
Security Controls Validation				●

The results our customers are seeing

1-2 hours

average time to validate new threats,
from 2-3 days

INVESTMENT FIRM

70%

reduction vulnerabilities
detected in next
pen test

IT SOLUTIONS

91%

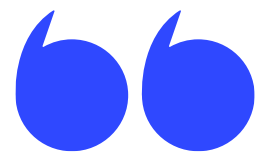
improvement in malicious file
detection post
mitigation

SPORTS MEDIA

60%

increase in team
efficiency
addressing
vulnerabilities

FINANCE COMPANY



When testing our endpoint with Cymulate, we noticed large discrepancies between our workstations and servers. Because we can immediately see the impact of our mitigation efforts by re-running the Cymulate assessments, we went from 98% of malicious files not being detected to only 7%!"

The transition to Exposure Validation



What and where is my exposure to potential breaches if/when I am attacked?

- ✓ Misconfigurations
- ✓ Vulnerabilities
- ✓ Attack Paths

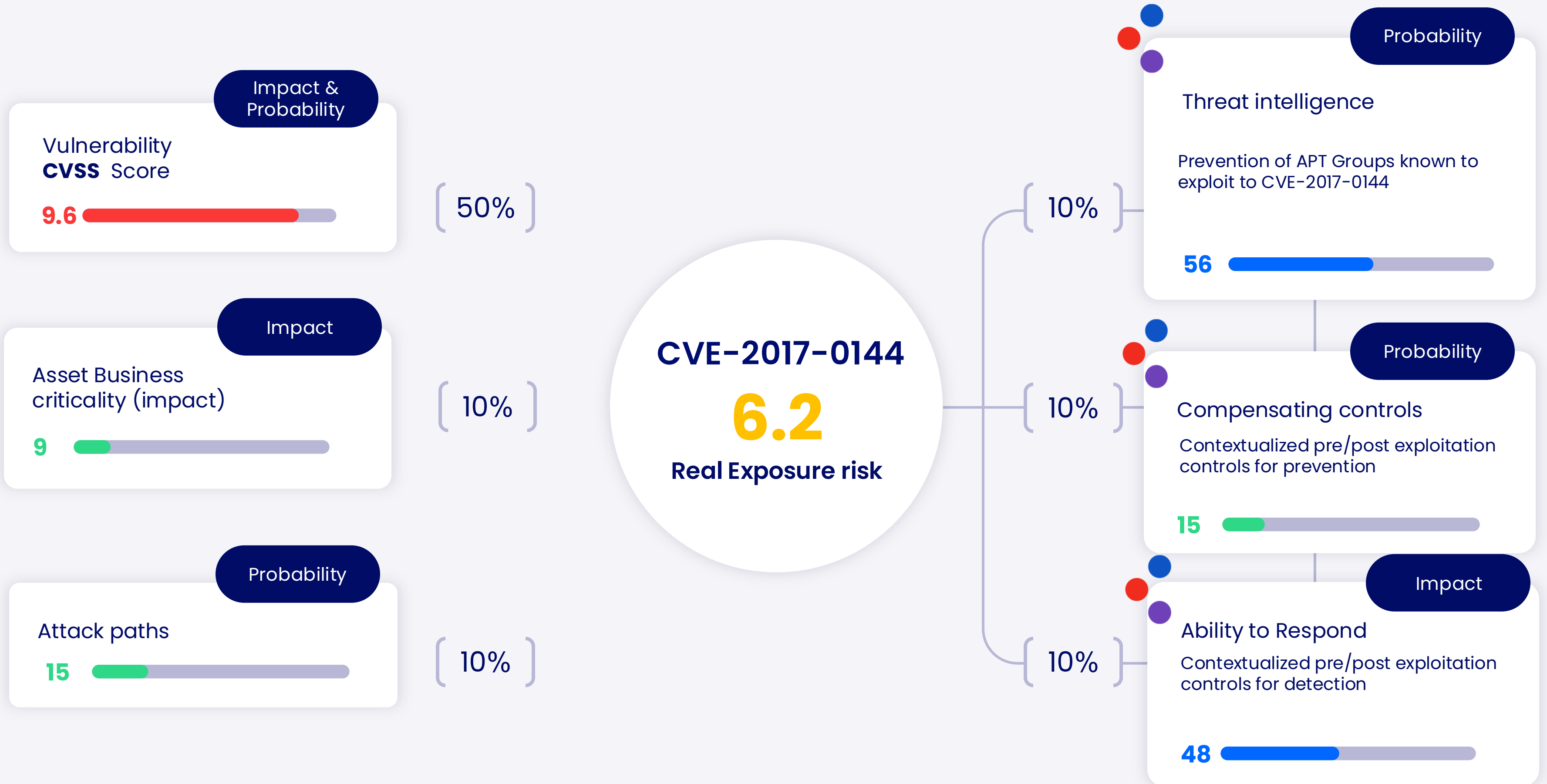
Will my security control detect and/or prevent an attack exploiting the identified exposure?

- ✓ Efficacy of all Controls and Defenses



**Exposure
Management**

Contextualized exposure prioritization



Attack paths done right

- EDR Prevention
- EDR Detection
- IPS Prevention
- SIEM Alert

9.4

MITRE ATT&CK T1040

- EDR Prevention
- EDR Detection
- IPS Prevention
- SIEM Alert

4.6

CVE 2017-0144

Discovery, Credential Access/Network Sniffing

Lateral Movement / Exploitation of Remote Services



In-sc.labnet.local
192.168.1.77

Contain



192.168.1.0/24

Exploit

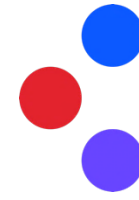


CVE-2017-0144

Affects



win-vuln-dc
192.168.1.191



Exposure Management done right.

Blue Teamers, you now have control



Disrupt attack paths



Tune and optimize defenses



Compensate for known gaps

Interested in a deeper discussion?



Joe Heckley
Account Manager



Gio Macias
Solution Engineer