







# disclaimer

# **Expanding Attack Surface**



We need to review everything before it gets into production.

Why? We trust X.

How come this server is not updated?

Which server?

One of our users got breached through LinkedIn.

Why are we not protected against this?

Security Teams'
Challenges

# **BLEEPINGCOMPUTER**

"Ransomware attack cost IKEA operator in Eastern Europe \$23 million"

tech**radar**pro

"IKEA black Friday ransomware attack cost franchise firm millions"



# The Blame Game

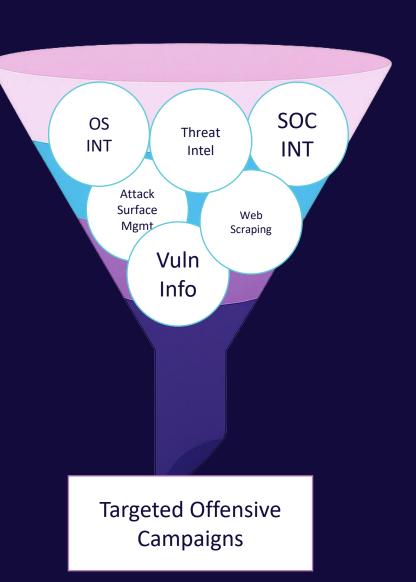
- △ "How did **the** penetration testers not find this?"
- △ "How did a single compromise lead to a domain takeover?"
- $\triangle$  "Is our user awareness even worth it?"
- △ "Blame our EDR, NDR, MDR, ...!"
- △ "Blame not having an EDR, NDR, MDR, ...!"
- △ "There is nothing we could have done..."



# **Offensive SOC?**

# "offensive SOC"

- $\triangle$  Alerts => triggers to react
- △ Tailored Phishing Campaigns
- △ Targeted Web App Attacks
- △ Emulate Opportunistic Attackers
- △ Proper Setup for a Red Teaming Exercise



### REPORTING

Deliver real-time updates and detailed findings.

Provide actionable recommendations to improve security posture.

### **INTRUSION**

Test vulnerabilities through simulated breaches to assess system resilience.

Emulate advanced attacker techniques for deeper insights.



### **THREAT ANALYSIS**

Identify and assess potential threats to your systems and infrastructure.

Focus on understanding the evolving tactics, techniques, and procedures (TTPs) used by attackers.

### **RECON**

Perform deep reconnaissance to gather information on systems, networks, and users.

Use insights to simulate real-world attack scenarios.

# **Ivanti Vulnerabilities**

Last year there was breach in Ivanti endpoints. An unauthenticated attacker could execute remote code through the web portal.

### CVE's tracked:

- CVE-2023-46805
- CVE-2024-21887



- What do we know about the vulnerability?
- Are there POCs available?

Vulnerability Disclosure (10 jan 2024)

https://forums.ivanti.com/s/article/CVE-2023-46805-Authentication-Bypass-CVE-2024-21887-Command-Injection-for-Ivanti-Connect-Secure-and-Ivanti-Policy-Secure-Gateways?language=en\_USx

- IOCs shared
- Testing environment for IOCs & Continuous Help



Source: https://www.cisa.gov/news-events/cybersecurity-advisories/aa24-060b

- Testing environment for IOCs
- Deeper research into proof of concept



Source: https://www.cisa.gov/news-events/cybersecurity-advisories/aa24-060bv

- Proof of concept code released on github
- Further exploitation observed



Source: https://github.com/duy-31/CVE-2023-46805\_CVE-2024-21887





# **The Changed Perspective**

△ Defensive Monitoring

△ Attack surface discovery + continuous threat detection

△ Offensive Testing

△ Testing/simulating real-world attacks before attackers do

# **One Partnership Approach**

# Benefits

- Shared context & visibility
- Faster improvement loops
- Reduces Vendor sprawl
- Consistent + actionable KPI's

# Risks

- Overreliance on one partner
- Vendor lock-in risk
- Compliance challenges
- Cost vs benefit

# Recommendations

# Recommendations

## **Measure Outcome**

#ContinousImprovement

Running

## **Outsourcing**

**Consider Outsourcing** 

Rely on internal people Shortage on FTE's

Define business critical needs

## **Attack Surface**

### Map the AS:

- Hard exercise
- Involve all stakeholders

### Static testing fails on value

Everchanging landscape

Continuous > Periodic

**Continuous Testing** 

### KPI's are key

- Define business critical KPI's
- Actionable next steps
- Stakeholders

