

ACCESS42

HANDLING THE MODERN-DAY ATTACKER WITH A DEFENSIVE LAYERED APPROACH (SOC)

Stefan Lambregts









# Stefan Lambregts

Manager Operations











### AGENDA

The Modern-Day attacker
The attack path
Layered defense
Correlation

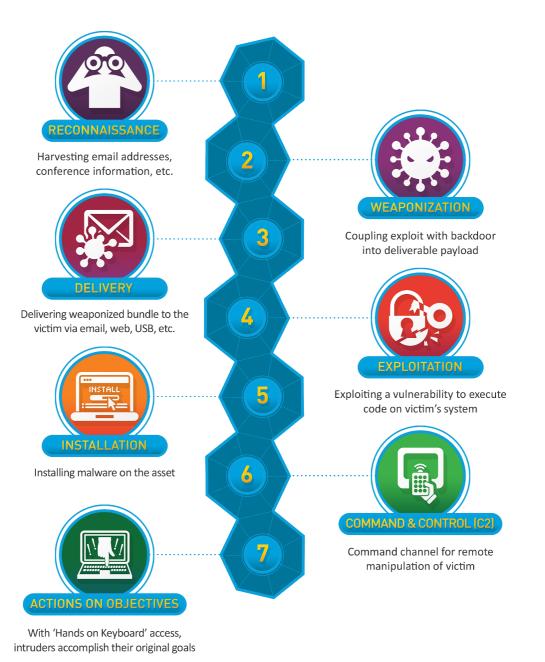




















# RECONNAISSANCE

#### Firstname.Lastname@innotech.com

















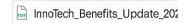
#### WEAPONIZATION + DELIVERY

#### hr-portal@update.innotech-benefits.com

Tuesday, April 15, 20

Mandatory Action: 2025 Benefits Package Update

Hi Karen,



As part of our annual compliance and benefits review, we're roiling out the updated InnoTech 2025 Employee Benefits Package.

To ensure continued access to your benefits, please download and review attached Benefits Summary & Acknowledgment Form:

InnoTech\_Benefits\_Update\_2025.xlsm (*Macro-enabled file* – required for digital signature validation)

https://update.innotech-benefits.com/files/Benefits\_Update\_2025.xlsm

Thank you for your prompt attention to this matter.

Warm regards,
Angela Morris
Senior HR Specialist
InnoTech Corporation













## EXPLOITATION

#### Microsoft Office Remote Code Execution Vulnerability

CVE-2024-30101 Security Vulnerability

Released: Jun 11, 2024









# **X** INSTALLATION



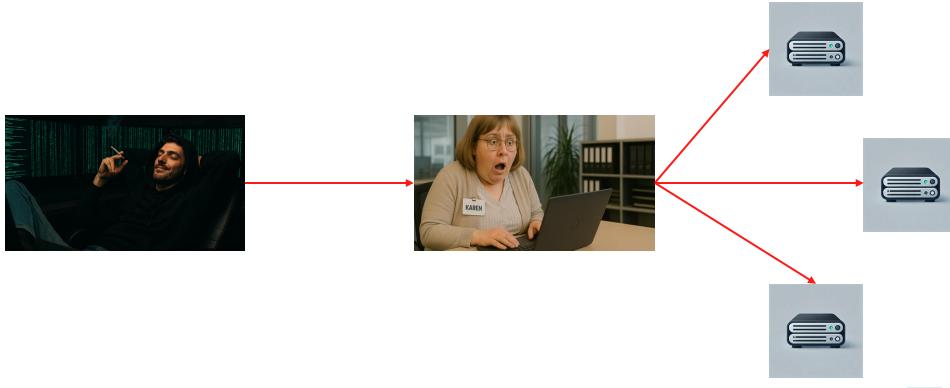








# X COMMAND & CONTROL











# X ACTIONS ON OBJECTIVE











"Ransomware isn't just a last-stage problem—it's the **result** of missed detections at earlier stages. By building layered defenses and correlating events across phases, we can stop attackers like Alex before they do damage."



#### WEAPONIZATION + DELIVERY

#### **Email Security**

- Anti-Spoofing
- Detects malicious attachments & links
- Human risk

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Warm regards, Angela Morris Senior HR Specialist InnoTech Corporation



### EXPLOITATION

#### **Vulnerability Management**

- Reduce risk of exploitation
- Prioritize based on risk

Microsoft Office Remote Code Execution Vulnerability

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## INSTALLATION

#### **Endpoint Detection & Response**

- Real-Time threat detection
- Enhanced endpoint protection
- Rapid response & containment













#### COMMAND & CONTROL

#### Cloud Infrastructure Entitlement Management

- Least privilege enforcement
- Visibility into cloud permissions









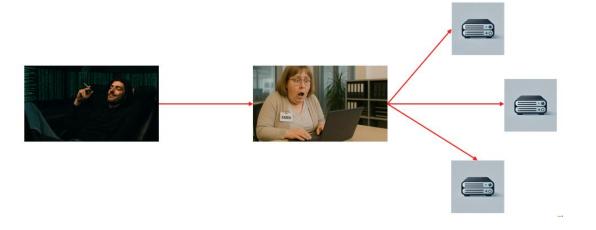




### ACTIONS ON OBJECTIVE

### **Network Detection & Response**

- Deep visibility into network traffic
- **Detect lateral movement**











# "IT'S NOT ABOUT HAVING MORE TOOLS—IT'S ABOUT MAKING THE TOOLS WORK TOGETHER."



#### SECURITY OPERATIONS CENTER

- Single pane of glass
- Rapid detection & response
- Defense in depth enforcement
- ©Correlation is key

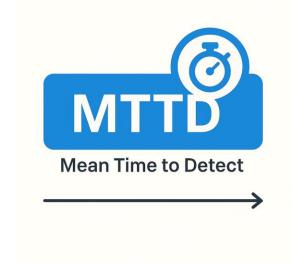








#### CORRELATION IS KEY





"The faster you see it, the faster you stop it."









#### CORRELATION

#### Phishing detection + Endpoint behavior

Scenario: Karen opens the phishing email and downloads the malicious Excel file

- Email Protection: Flags email as suspicious due to spoofed sender domain or anomalous attachment
- EDR: Detects macro-enabled Excel spawning PowerShell or abnormal child processes

**Correlation via SIEM/XDR:** A rule correlates a phishing alert with suspicious endpoint behavior (Office app executing PowerShell) within the same user session

**Prevention/Alert Outcome:** Automatically quarantines the endpoint for investigation. Could prevent payload execution entirely.









#### CORRELATION

#### **EDR** + Identity Behavior

Scenario: Alex used Mimikatz to dump cached credentials from the memory of Karens device

- EDR: detects an untrusted process
- Identity Provider: Karen's account is suddenly logged in as Domain Admin

Correlation via SIEM/XDR: Privilege escalation immediately after credential dumping

**Prevention:** Lock account, revoke token & isolate system













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