# **Today:** 16. Webinar

SOC by

TEMS SECURITY SERVICES



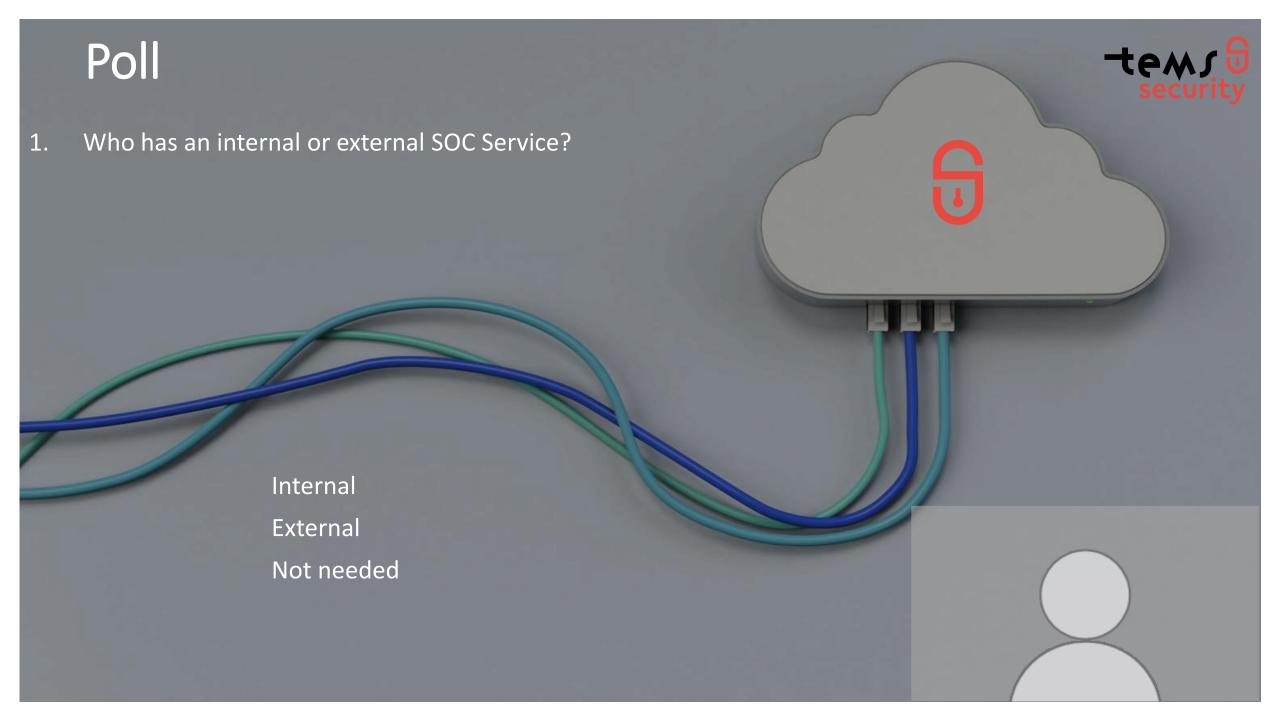


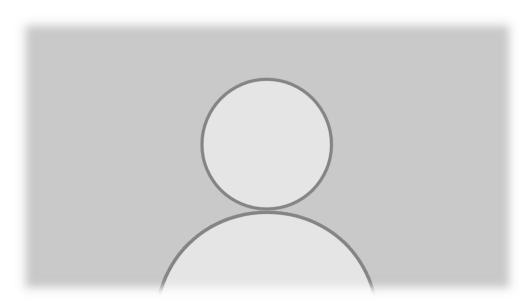




PHILIP BERGER

MICHAEL MEIXNER





# Fehler!





## Resilienz







- ✓ Widerstandsfähigkeit gegen Angriffe
- ✓ Schnelle Wiederherstellung (Recovery)
- ✓ Redundanz
- ✓ Flexibilität und Anpassungsfähigkeit
- ✓ Incident Response und Business Continuity

Zusammengefasst ist Resilienz in der IT-Sicherheit die Fähigkeit, trotz unerwarteter Störungen funktionsfähig zu bleiben, Angriffe abzufedern und schnell wieder voll einsatzbereit zu sein. Organisationen, die in ihre IT-Sicherheit investieren, um resilient zu werden, sind besser in der Lage, sich vor den wachsenden und sich entwickelnden Cyberbedrohungen zu schützen und deren Auswirkungen zu minimieren.



# SOC





## **SOC Definition**

A SOC is a team, primarily composed of cybersecurity specialists, organized to prevent, detect, analyze, respond to, and report on cybersecurity incidents. A SOC monitor IT-Systems in (near) real time.

A SOC Team must be able to collect and understand the right data at the right time in the right context.



## **SOC Definition**

Some other terminology:

- ✓ Computer Security Incident Response Team (CSIRT)
- ✓ Computer Incident Response Team (CIRT)
- ✓ Computer Security Incident Response Center (or Capability) (CSIRC)
- ✓ Cybersecurity Operations Center (CSOC)
- √ Computer Emergency Response Team (CERT®)



# Which services an internal/external SOC-Team can offer

Among the data sources a SOC is likely to ingest, the most prevalent ones are host sensors such as those used for endpoint detection and response (EDR) capabilities, network traffic metadata, and various log sources such as application or operating system (OS) logs from on-prem devices, the cloud, or OT.





- ✓ Vulnerability assessments
- ✓ Penetration testing
- √ Supply chain risk management
- ✓Internal IT-Security Consultant
- ✓ External IT-Security Consultant
- √ Computer forensic services
- √ Training for IT-Staff

- √ Completeness checks
- ✓ Maybe OT
- ✓ Support for IT-Security Architecture
- √ Phishing Campaign
- ✓ Malware Analysis
- √Threat Hunting
- ✓ Exercises



## **SOC Organisations**

- ✓ Ad Hoc Security Response (small Business)
  - ✓ No standing incident detection or response capability exists
- ✓ Distributed SOC (small/medium Business)
  - ✓ Formal SOC authorities. Staff may have other duties as well
- ✓ Central SOC (physical / virtual )
  - ✓ SOC personnel has dedicated roles in the SOC
- √ Federated (Support different Business Units)
  - ✓ A SOC, similar to centralized but could also be hierarchical
- ✓ Coordinated SOC (provide Guidance) (large Business)
  - ✓ A SOC responsible for coordinating the activities of subordinate SOCs.



# Build a SOC Structure to Match Your Organizational Needs

#### ✓ Business Need

✓ The SOC must align with business needs. Evaluate whether the constituency is small and can use existing IT staff for SOC functions; or if it is large enough to warrant dedicated staff. Also factor in whether the organization's structure supports a centralized SOC or requires situational awareness across independent units.

#### √ Risk Posture

✓ The risk posture of the constituency is crucial; those handling highly sensitive data, like financial or healthcare records, will need a formal SOC and additional services linked to threat intelligence, regardless of size, and should consider redundancy for continuous operations.



# EDR vs. SIEM

- ✓ Scope of Monitoring
- **✓ Data Collection**
- ✓ Threat Detection
- ✓ Response Capabilities
- ✓ Primary Use Cases



## **EDR vs. SIEM**

#### **Scope of Monitoring**

- ✓ **EDR:** Primarily focuses on endpoints such as desktops, laptops, and servers to detect and respond to threats specific to those devices.
- ✓ **SIEM**: Monitors security events across the entire IT infrastructure, including network devices, servers, applications, and endpoints.



#### **Data Collection**

- ✓ EDR: Collects detailed data specific to endpoints, such as processes, behaviors, and activity logs, for in-depth analysis.
- ✓ **SIEM:** Aggregates data from various sources across the network, including logs from firewalls, IDS/IPS, applications, and other systems, to create a centralized view of security events.



#### **Threat Detection**

- ✓ **EDR**: Uses real-time monitoring and behavioral analysis to detect sophisticated and targeted attacks on endpoint devices.
- ✓ **SIEM**: Relies on correlating and analyzing logs and events to identify suspicious patterns and incidents across multiple systems.



#### **Response Capabilities**

- ✓ **EDR**: Offers automated or manual response actions at the endpoint level, such as isolating infected devices, stopping processes, or remediating threats.
- ✓ **SIEM**: Typically focuses on alerting and incident management rather than direct response actions, but can trigger automated workflows through integrations.



#### **Primary Use Cases**

- ✓ **EDR**: Best suited for endpoint-centric threat detection, investigation, and response to targeted attacks or malware.
- ✓ **SIEM**: Ideal for comprehensive security monitoring, compliance reporting, and correlating incidents across an organization's entire IT infrastructure.







an Indicator of Compromise (IOC) refers to evidence that indicates a data breach or malicious activity within a network or system. IOCs can include unusual network traffic, unexpected system file changes, or malicious code, helping cybersecurity teams detect and respond to potential threats.

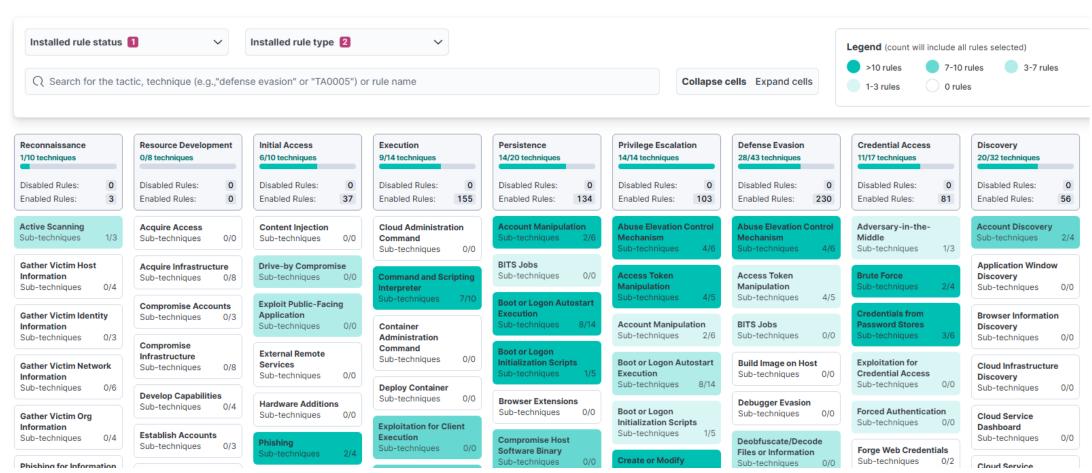




### MITRE ATT&CK with Elastic

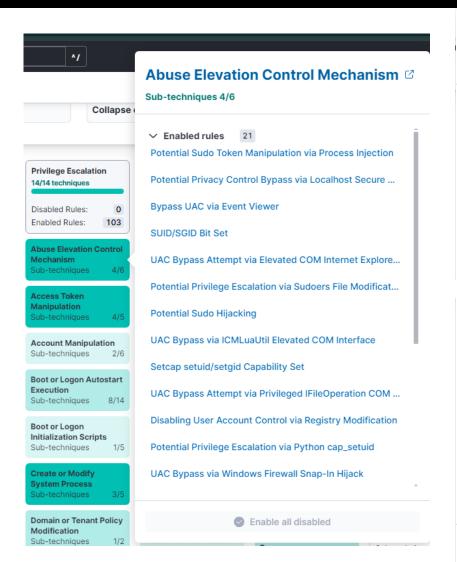
#### MITRE ATT&CK® coverage

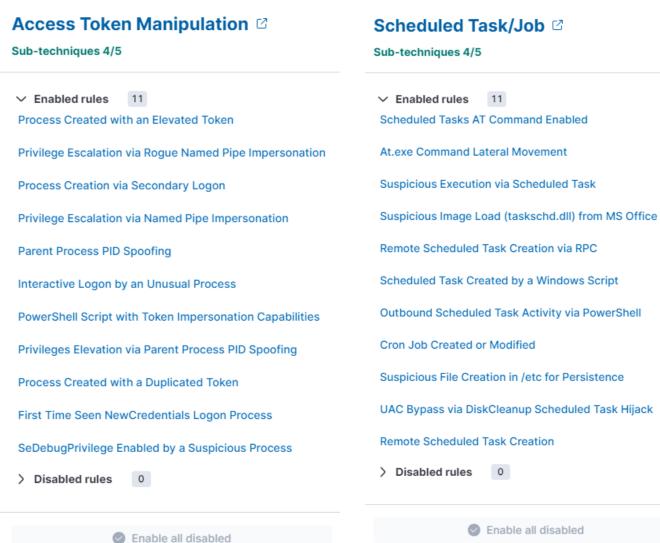
Your current coverage of MITRE ATT&CK® framework to be displayed. Learn more. Click a cell to view and enable a technique's rules. Rules must be mapped to the MITRE ATT&CK® framework to be displayed. Learn more. Click a cell to view and enable a technique's rules.





### MITRE ATT&CK with Elastic





## AlienVault OTX - AbuseCH

Total Indicators [Logs OTX]

**Total Indicators** 

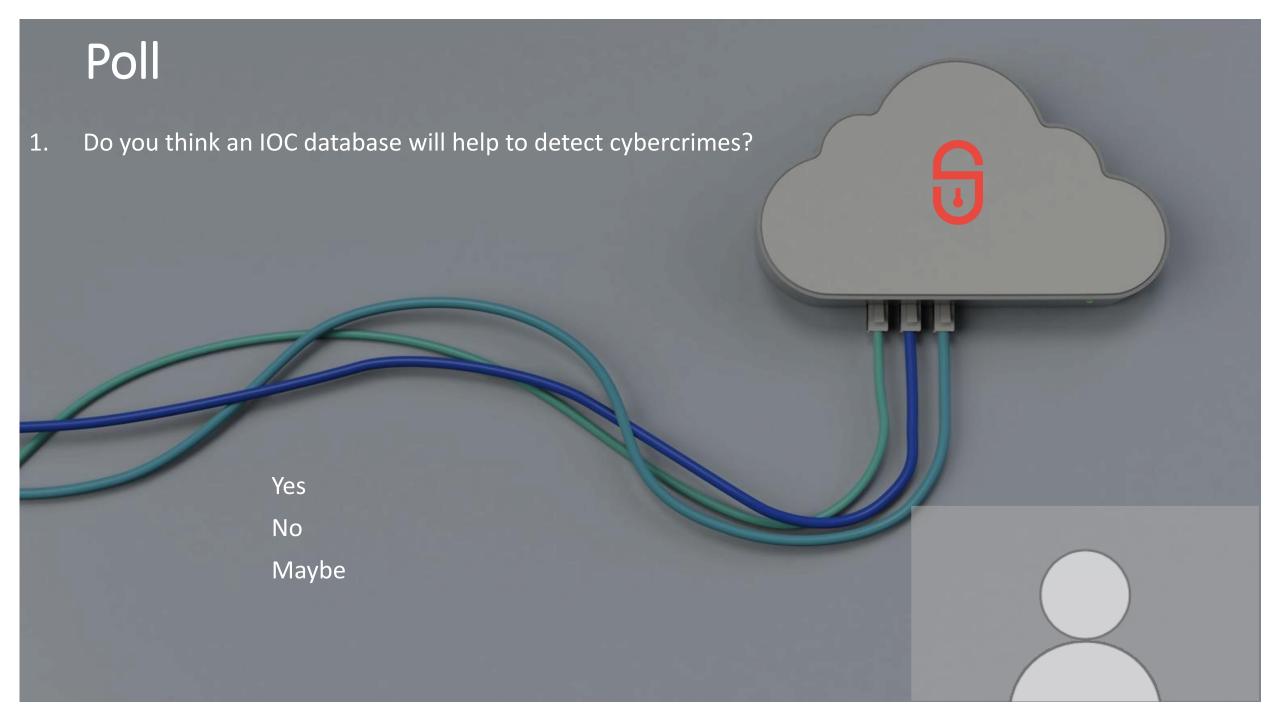
39 267

Total Indicators [Logs Abuse...

395 096

**Total Indicators** 











## SOC Service by Tems Security

#### ✓ Operational Coverage:

- ✓ Off-Hours Monitoring (5pm 7am): Managed by Tems-Security to ensure continuous protection.
- ✓ Regular Business Hours: Managed by the client's internal IT team for seamless, 24/7 coverage.
- ✓ Contract Duration:
  - ✓ Flexible 30-day contracts for adaptable engagement.
- ✓ Response Time:
  - ✓ Guaranteed response within 45 minutes to address alerts swiftly.
- ✓ Client Communication:
  - ✓ Alert Tracker provided via MS Teams for real-time updates and client collaboration.



## SOC Service by Tems Security

#### ✓ Customized Alert Handling:

- ✓ Remote Access Capabilities: Secure management of Active Directory (AD) and servers.
- ✓ Remote Firewall Access for comprehensive threat response.Contract Duration.

#### ✓ Technical Integration:

- ✓ Deployment of Elastic-Agent on each Server
- ✓ or connection to an existing, locally-installed ELK-Stack for efficient log management and analysis.



## Your DFIR Team in Case of Emergency

Rapid Response: Our DFIR team is on standby to react immediately to

security breaches.

**Expert Analysis:** Skilled forensic analysts scrutinize data to uncover

the source and scope of the incident.

**Remediation:** We provide clear instructions on how to contain and

neutralize threats.

**Post-Reporting:** Detailed reports are provided, outlining the incident

timeline and impact, along with recommendations to

prevent future breaches.



## **Tems-Security First Response**

Hotline: Our 24\*7 Hotline is open to everyone

Remote collection: With our First-Response Program we can collect

within minutes and perform remote forensics.

**EDR Support:** With Crowdstrike, Carbon Black and Threat Responder

we can do rollout to protect your company within hours



## **Threat Responder**

#### First forensic results within 90 minutes

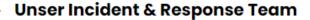
- ✓ Malware Family
- ✓ Suspicious Files
- ✓ Suspicious network connections
- ✓ Suspicious Schedule tasks
- ✓ Suspicious IOC`s
- ✓ Suspicious Registry entries
- ✓ Suspicious Autoruns

#### **Interactive client connection**

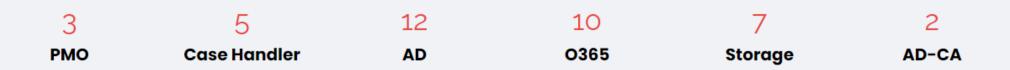
- ✓ Registry viewer
- ✓ Filesystem Browser
- ✓ Execute scripts
- ✓ Copy / dump of files in both ways



## Your DFIR Team in Case of Emergency



Senior Consultant Only



Exchange

2 Forensic



4 Negotiator 7 Network

8 EDR 5 Firewall

5 SIEM 3 LINUX 9

Backup DataCenter



# Know your limits

Work smarter
Not harder

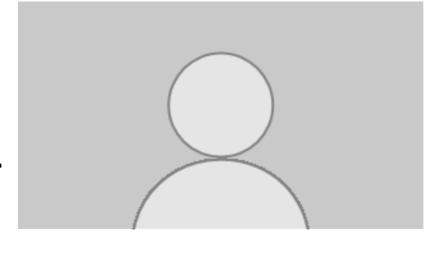


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## Next Webinar





December 18th 2024 09:00am – 10:00am



Yubikey – Part 1







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