



Security Summit 2019 Istanbul

A Real Life SOC Journey,
Yapi Kredi Bank



~10 Years IT Security Experience

Bahçeşehir University – MIS (Managed Information Systems)

Yıldız Technical University – Computer Engineering

Yapi Kredi Bank – IT Security Incident Management Unit Manager (~2 Years)

Yapi Kredi Bank – IT Security Incident Management Specialist (~2 Years)

Garanti Bank – Network Security Platform Specialist (~3,5 Years)

Doğan Gazetecilik – IT Security Specialist (~2,5 Years)

- **Cyber Security Challenges**
- Real Scenarios

How long is the lifecycle of a data breach?

The type of breach, your industry, region, and organizational structure all factor into how long it takes to identify and ultimately contain a data breach.

279 Days

Average time to identify and contain a breach

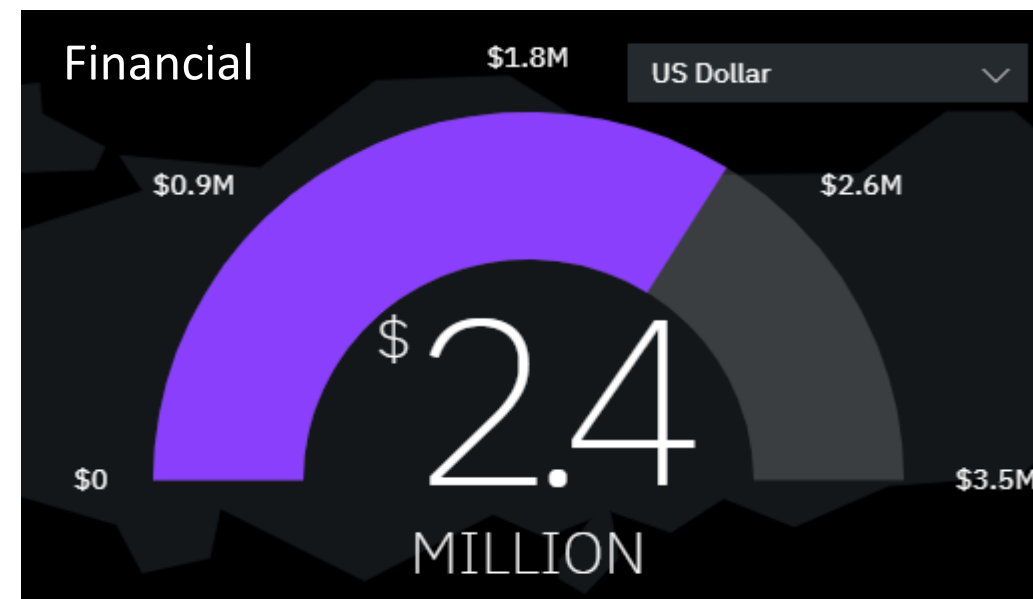
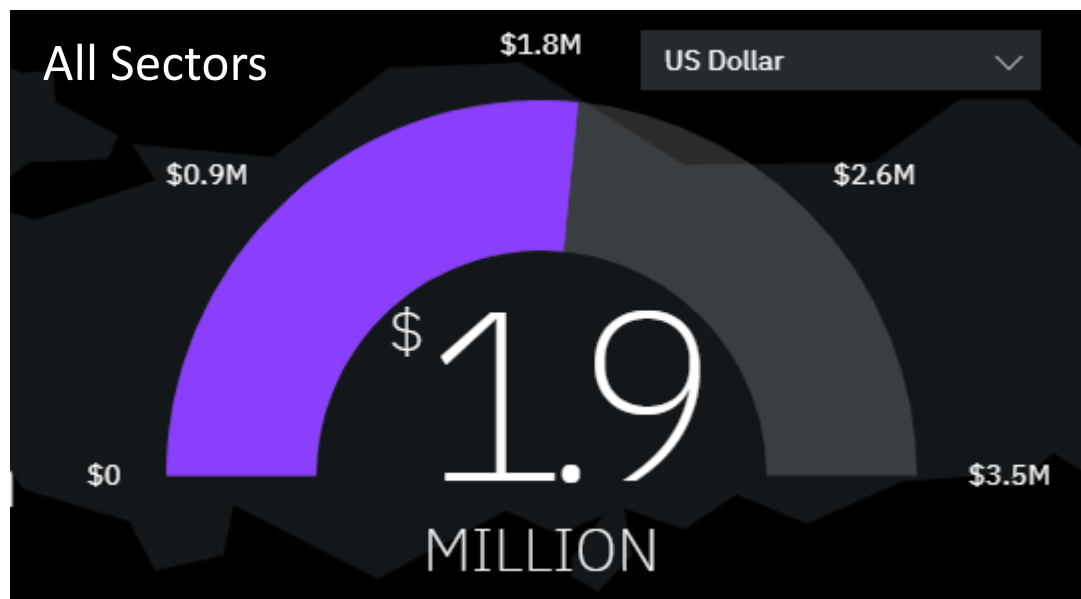
314 Days

Lifecycle of a malicious attack from breach to containment

\$1.2^M

A breach lifecycle under 200 days costs \$1.2 million less than a lifecycle over 200 days

Cost of a Data Breach in Turkey



SOC Defined

- A security operations center provides centralized and consolidated cybersecurity incident prevention, detection and response capabilities.
- SOC involves **PEOPLE** and **PROCESSES**, which are in fact MORE IMPORTANT than **tools**.

Reminder: SOC = People, process and technology (so, no "SOC vendors")



PROCESS



PEOPLE

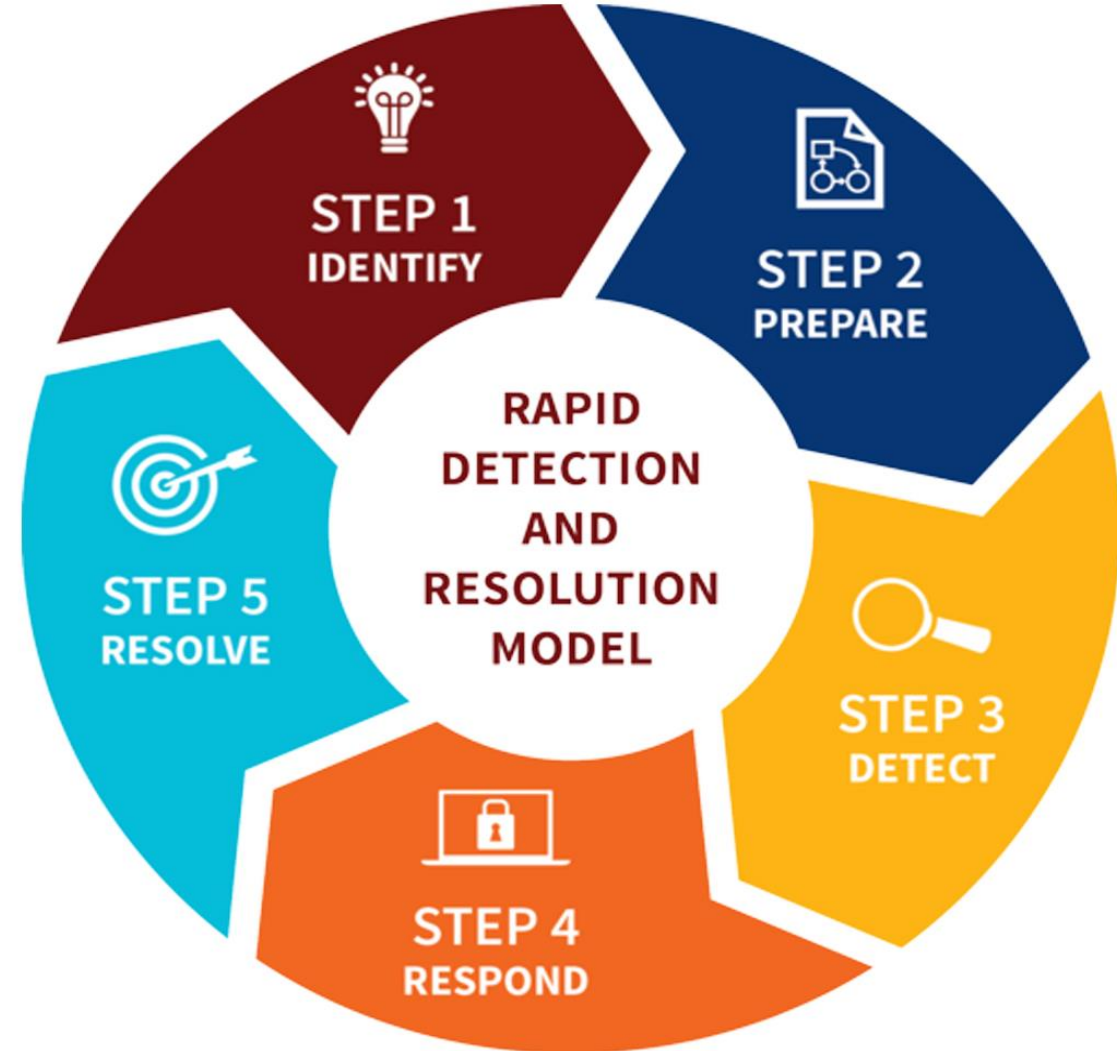


TECHNOLOGY

To Detect you have to see...

SIEM Infrastructure

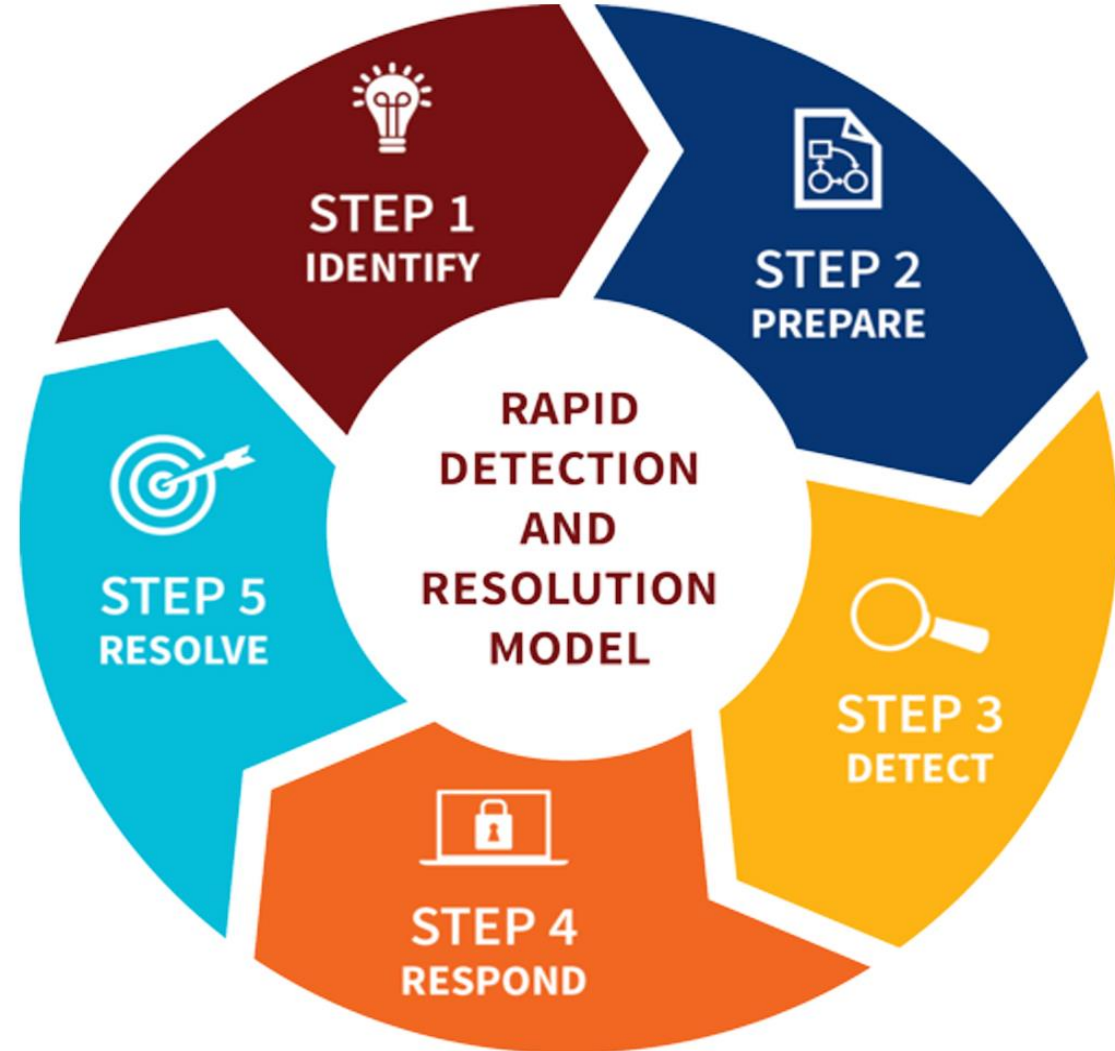
- 170K EPS, 2M FPM License
- Daily ~3.3 Billion Log
- Daily ~5TB Data Ingest
- Totally ~800TB Hot Data
- 7.500+ Log Source
- 300+ Use Case
- 10+ Custom Integration



Alert overload dilemma...

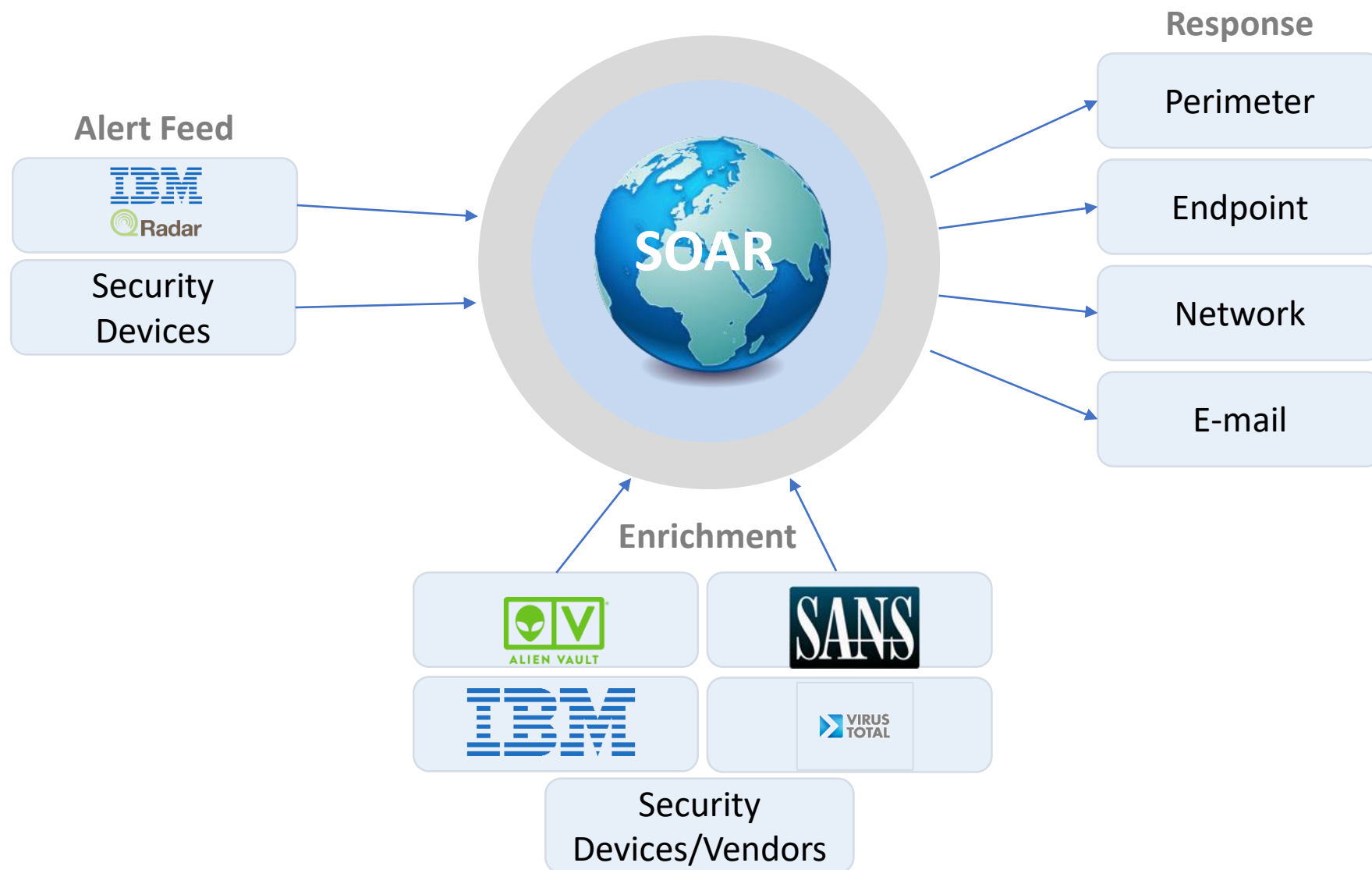
SOAR Infrastructure

- 40 User license
- All Incidents are centralized
- 40+ Integration, 5+ bidirectional integration
- All incident categories are standardized
- 15+ playbook implemented

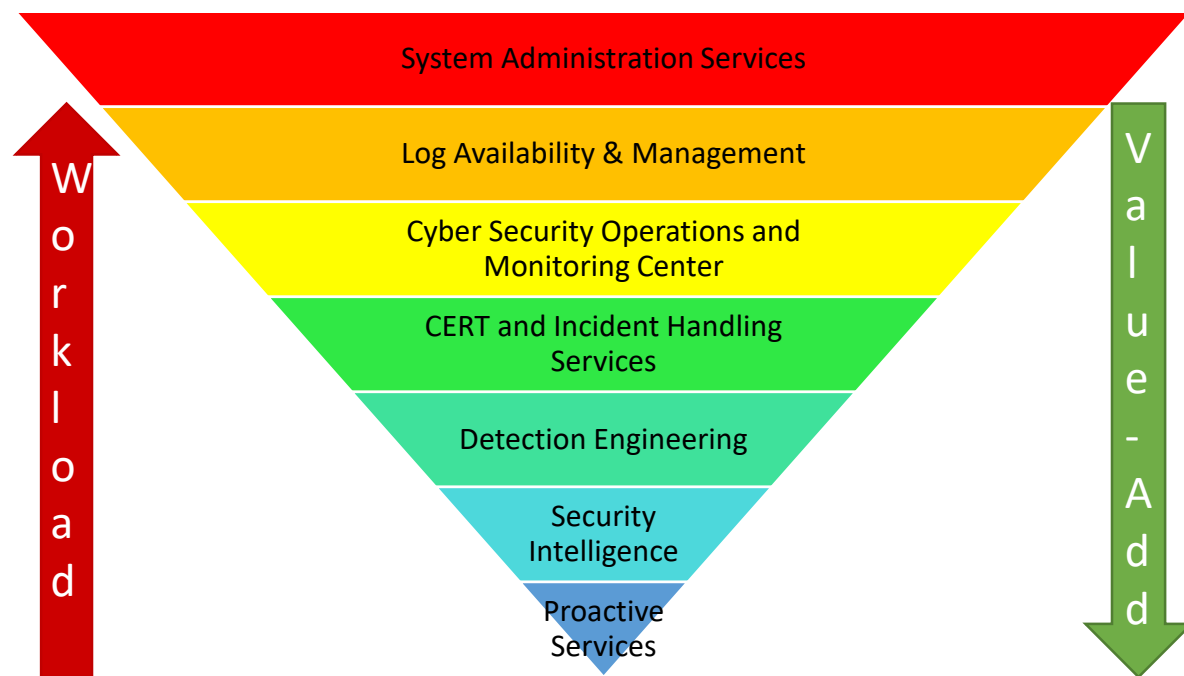


- Cyber Security Challenges
- **Real Scenarios**

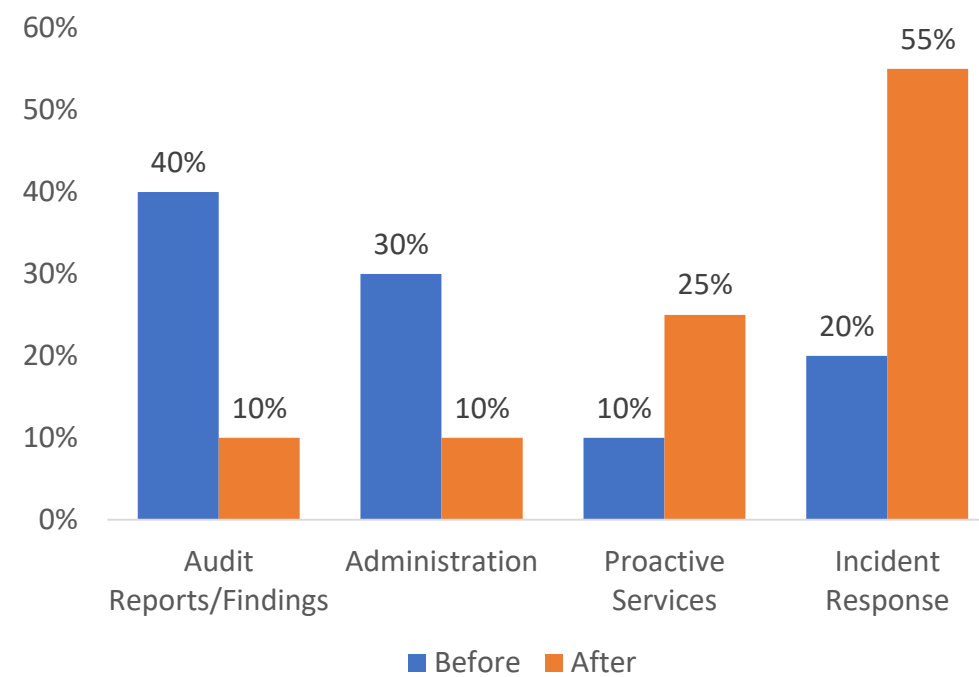
- Automatic Triage based on **custom criterias**
- Effective management of Hybrid Model SOC with **standardized playbooks** and **centralized incident response platform**
- Data Enrichment processes are automated, **%25 of incident investigation** time saved
- Integrated incident response on **4 different countries infrastructure**



- SOC have to focus on **differentiating services**
- Other SOC functions such as **Threat Intel, Log Management and Threat Hunting** playbooks implemented



- Effective **reporting** and **SLA/KPI** calculation
- %80 of **workload automated**
- **%80** of YapiKredi 7x24 **SOC Operations** automated
- Times saved on **%90 of security actions**



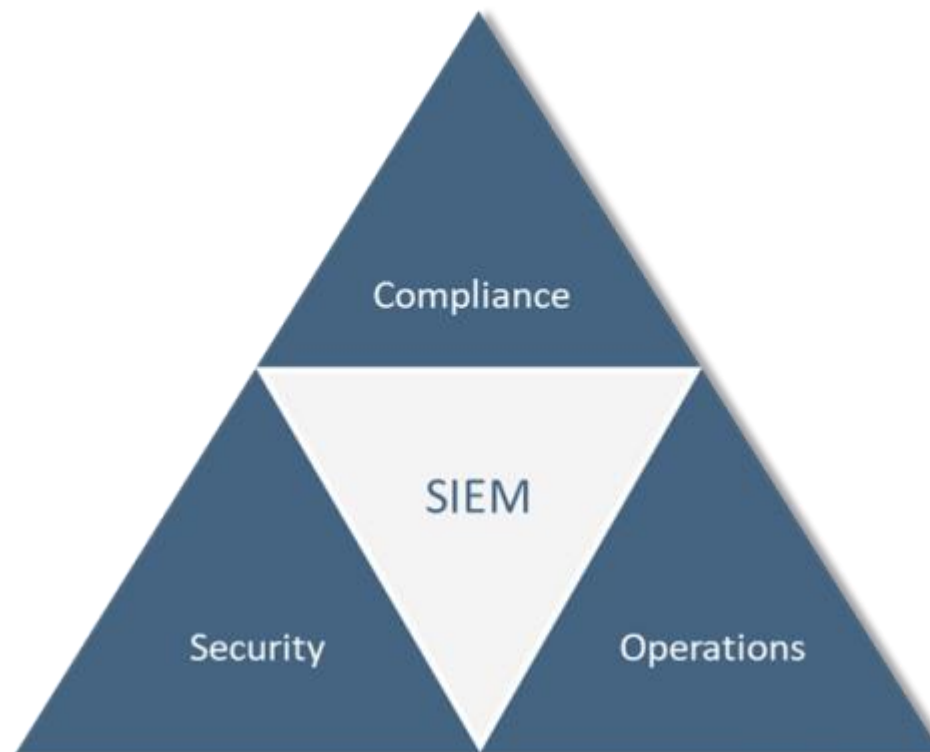
- Combine information from external sources, internal events and specific Financial related threats **to increase detection** capabilities and stop attackers earlier in the attack life cycle
- Proactively discover intrusions and intrusion attempts by using Threat Intelligence **to respond effectively** in a **shorter period of time**
- Align with our IBM Resilient platform so **TI alerts** turn into **incidents**

Threat Intelligence Maturity Levels



- Total of 7.500+ log source feeding into SIEM
- Unix/Windows log source management is **automated**
- **Ticket management** for auditing and fast response capability
- Automated QRadar **asset criticality management** with CMDB data through Resilient Platform

The three most important areas within SIEM



- SOC involves **People** and **Processes**, which are in fact **more important** than **tools**.
- The hardest part of SIEM is **Log Source Continuity Management**
- Incident Response Platform gives **a single pane of glass for monitoring all incidents** and provides **task management**
- As the **cybersecurity skills gap** is present, automating as much work as possible allows us to **use limited resources more efficiently**
- Incident Response Platform is **not a plug and play tool**, you have to customize based on your tools and SOC model

The background is a deep blue gradient. On the right side, there is a complex, glowing grid of points connected by thin lines, forming a mesh-like structure that appears to be undulating or flowing. Scattered throughout the entire background are numerous small, bright blue and white dots, some of which are slightly out of focus, giving a sense of depth and a digital or cosmic atmosphere.

Questions?