Security Operation Center (SOC) Service

KPMG Cybersecurity
Increasingly severe security situation

The threat landscape is continuously changing

Digital crime is estimated at $450bn/yr globally and the impact of cyber incidents is growing. Today’s digital organisation operates against an ever evolving cyber threat landscape and faces increasingly severe and complex cyber security attacks.

Robust Security Operations should help manage and reduce your cyber security risk. But it still face some challenges:

- Organizations turn to many industry-leading security technology, which leads to security monitoring that is performed using different tools and by different team. Piecing together the details of an attack in real time becomes incredibly difficult and even forensic analysis is slowed.
- How to build an effective intelligent SOC to improve the efficiency of global visualization and threat response, rather than just security device/system stacking
- How SOC analysts deal with increasing volumes of alerts, many of which are false positives
- How to build the threat framework detection model related to the organization’s security environment and security assets, which can be continuously and dynamically updated
- How to build an effective SOAR platform to automate based on whole process, rather than just blocking IP

Violation of compliance will bring serious economic losses

Since the implementation of the cyber security law of the people’s Republic of China on June 1, 2017, all relevant ministries and industries have updated or issued relevant standards and requirements, such as the information system security level protection 2.0, personal information security specification, etc.

At the same time, the “strength” and “granularity” of security inspection have been increased. In the national security inspection last year, most of the reasons for statistics of the organizations that have been attacked are still compliance control problems, such as weak password of VPN \\mailbox, no correction of website code execution loopholes, no sorting of Internet assets, security devices such as bastion machines unqualified the security control requirements. Therefore, even though each organization has established its own security management system in recent years, however, as the cornerstone of the whole security system, security compliance still faces the following challenges:

- Organizations lack a comprehensive understanding of their attack areas
- Passive inspection, not real-time and active monitoring, and the effectiveness of control measures cannot be quantified
- Safety compliance inspection stays at the level of baseline inspection and lacks the overall safety compliance situation display
- Various safety management requirements are too many to be effectively integrated and inspected
- There are many security assets and complex structure, which cannot guarantee the full coverage of inspection
- More reliance on personnel inspection can lead to fraud and inefficiency

Your Security Operations capability must also adapt

Security Operations needs to move beyond the traditional reactive routine and take a proactive stance that leverages disruptive technology such as artificial intelligence, machine learning and automation to address the challenges faced.

| The future of Security Operations | “Given the increasing complexity and impact of cybersecurity attacks, and the increasing complexity of security tools generating alerts, organizations are looking to build or revitalize SOCs or outsource this function. By 2022, 50% of all SOCs will transform into modern SOCs with integrated incident response, threat intelligence and threat hunting capabilities, up from less than 10% in 2015.” | Source: A view from Gartner’s Top 7 Security and Risk Trends for 2019 |

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<th>Standardised</th>
<th>Automated</th>
<th>Risk-led</th>
<th>Integrated</th>
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<td>Define the SOC scope, measurement indicators, incident category, severity and process. Covering your entire organisation, following a consistent approach, to ensure you avoid blind spots.</td>
<td>Design playbook step by step based on use case. Leveraging SOAR (Security Orchestration, Automation and Response) tooling to accelerate response, increase productivity and allow your team to focus their attention where it really matters.</td>
<td>Threat model building and continuous follow-up, while enabling effective detection capability for threats applicable to your organisation, leveraging threat intelligence sources, asset level, vulnerability fixing status to determine your priorities and decide how you should respond.</td>
<td>Enabling business and compliance integration, merging cyber detection and response capabilities and identifying synergies.</td>
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Driving positive outcomes for your organisation

- Reduced Cyber risk
- Effective Security Operations
- Focused Investment

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## KPMG Security Operations Services

### How we can help:

- We can plan your security operation objectives and operation modes to help you build security operation capabilities consistent with the overall security objectives of the organization.

- We can conduct gap analysis on the SOC of the organization based on the requirements of cyber security law, multilevel protection scheme, personal information protection, security management center, etc. We can assess the maturity of an organization’s SOC based on international and domestic best practices.

- We can design a security operation functional framework with SIEM as the security brain to effectively coordinate various security systems and devices. We can design scenarios such as threat framework model, Internet threat, Intranet threat, security compliance and information disclosure that match the customer’s environment. We can design rule-based operation manuals and automation requirements, as well as automated risk assessment models.

- We can provide on-site or non-site security operation services such as vulnerability management, security threat monitoring and analysis, threat intelligence management, investigation and evidence collection, etc. We can provide intelligent security compliance subscription services to customers through deployment tools, and provide automatic or semi-automatic pre-compliance inspection, self-assessment posture display, reporting and real-time monitoring.

### Benefits for you:

- Risk-oriented, building a strong and secure operational capability can protect you from specific threats on an ongoing basis and meet compliance requirements. Get the capacity building right the first time to maximize your investment in security operations.

- Understand the gap with laws and regulations, identify improvement points. Understand SOC security operations maturity to effectively improve your capabilities.

- The autonomous and controllable threat monitoring model can keep the latest threats updated continuously. User case analysis test method in detail. Based on standardized risk rating model, security operation process and applicable user cases, effective security operation function is established.

- Security operation service expected by customers. Intelligent security compliance subscription service expected by customers. Rapid delivery: familiar with international and domestic SIEM, security vulnerability, network traffic analysis, threat intelligence and other commercial or open source tools.

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### SOC Capability Model

- **SOC Capability Model**
  - Assist you to complete the digital transformation of security, active defence, continuous monitoring, rapid and effective response and disposal, escort for the business!
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