

Security Operation Center (SOC) Service

KPMG Cybersecurity

KPMG China

kpmg.com/cn

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

Standardised

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.



KPMG-SOC Core Capabilities

Risk-led

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.

Intelligent

Using an open architecture, flexible and adaptive analytical tools to allow you to make effective, fast decisions based on real-time insights.

Automated

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.

Agile

Being able to adapt and respond to the ongoing organisational changes and rapid shift in your attack surface.

Integrated

Enabling business and compliance integration, merging cyber detection and response capabilities and identifying synergies.

You can't build a world-class SOC overnight no matter how much money you are willing to invest, the task is more of a marathon than a sprint. Creating a plan for incremental phases of implementation is critical to success.

Once you're identified what you need, it is important to realize that building a SOC requires collaboration and communication among multiple functions(people), disparate security products(technology), and varying processes and procedures(processes).

Source: building world class security operations center roadmap in 2015

Driving positive outcomes for your organisation







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

Planning

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

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.



Assessment

Understand the gap with laws and regulations, identify improvement points

Understand SOC security operations maturity to effectively improve your capabilities

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 automa-

tion requirements, as well as automated risk assessment



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

We can provide on site or non-on site security operation services such as vulnerability management, security threat monitoring and analysis, threat intelligence management, investigation and

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.



Operation

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

SOC Capability Model

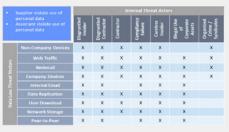
evidence collection, etc.

models

SOC maturity assessment



Based on ATT&CK & Kill chain threat framework and user case design

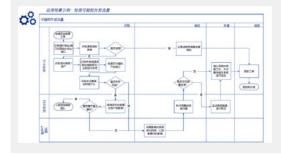




SOC Comliance Dashboad



Playbook and SOAR requirements



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

Contact us

Henry Shek

KPMG China Cybersecurity Partner

Tel: +852 2143 8799 henry.shek@kpmg.com

Brian Cheung

KPMG China Cybersecurity Director

Tel: +852 2847 5062 brian.cheung@kpmg.com

John Chiu

KPMG China Cybersecurity Associate Director Tel: +852 2847 5096 john.chiu@kpmg.com

Andy Yuen

KPMG China Cybersecurity Associate Director Tel: +852 3927 4697 andy.yuen@kpmg.com

Richard Zhang

KPMG China Cybersecurity Partner Tel: +86 (21) 2212 3637

richard.zhang@kpmg.com

Frank Wu

KPMG China Cybersecurity Associate Director Tel: +86 (21) 2212 3180 fm.wu@kpmg.com

Kevin Zhou

KPMG China Cybersecurity Associate Director Tel: +86 (21) 2212 3149 kevin.wt.zhou@kpmg.com kc.fan@kpmg.com

William Xu

KPMG China Cybersecurity Associate Director Tel: +86 (21) 2212 4633 william.q.xu@kpmq.com

Quin Huang

KPMG China Cybersecurity Director

Tel: +86 (21) 2212 2355 quin.huang@kpmg.com

Jason Song

KPMG China Cybersecurity Associate Director Tel: +86 (21) 2212 3306 jason.song@kpmg.com

Kevin Fan

KPMG China Cybersecurity Associate Director Tel: +86 (21) 2212 2200

Danny Hao

KPMG China Cybersecurity Director

Tel: +86 (10) 8508 5498 danny.hao@kpmg.com

Jason Li

KPMG China Cybersecurity Associate Director Tel: +86 (10) 8508 5497 jz.li@kpmg.com

Olive Wang

KPMG China Cybersecurity Associate Director Tel: +86 (10) 8553 3630 oh.wang@kpmg.com

kpmg.com/cn/socialmedia















For a list of KPMG China offices, please scan the QR code or visit our website: https://home.kpmg.com/cn/en/home/about/offices.html

The information contained herein is of a general nature and is not intended to address the circumstances of any particular individual or entity. Although we endeavour to provide accurate and timely information, there can be no guarantee that such information is accurate as of the date it is received or that it will continue to be accurate in the future. No one should act on such information without appropriate professional advice after a thorough examination of the particular situation.

© 2020 KPMG Huazhen LLP, a People's Republic of China partnership and KPMG Advisory (China) Limited, a limited liability company in China, are member firms of the KPMG global organisation of independent member firms affiliated with KPMG International Limited("KPMG International"), a private English company limited by guarantee. All rights reserved. Printed in China.