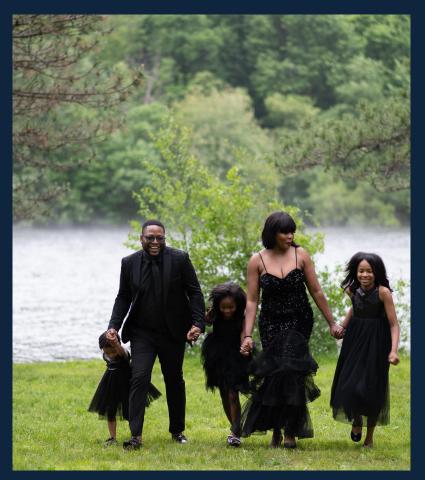
Navigating the IT Audit Landscape: A Comprehensive Overview

Gael Beauboeuf, CISA





GAEL BEAUBOEUF
Managing Director, KOZETEK

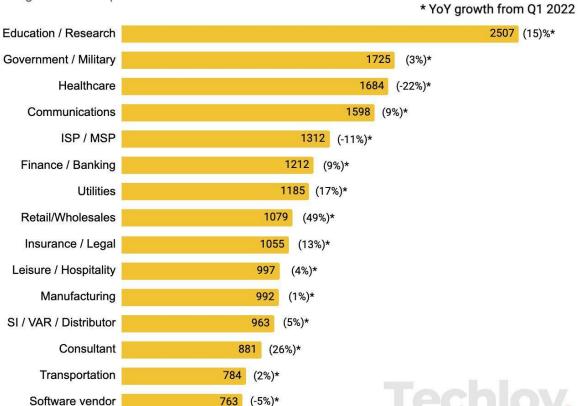
10+ years of experience in IT
Certified Information System Auditor
Certified Associate Project Manager
Red Hat Certified System Administrator
ITILv4 certified



No one is spared

Global Average Weekly Cyber Attacks Per Industry

during the Q1 2023 period



(32%)*

Chart: Emmanuel Oyedeji / Techloy.com

Hardware vendor

Source: Checkpoint

Technological risk

- hardware and software failure
- human error
- spam, viruses and malicious attacks,
- natural disasters such as fires,

Understand and identify the types of IT risks that may disrupt your business.





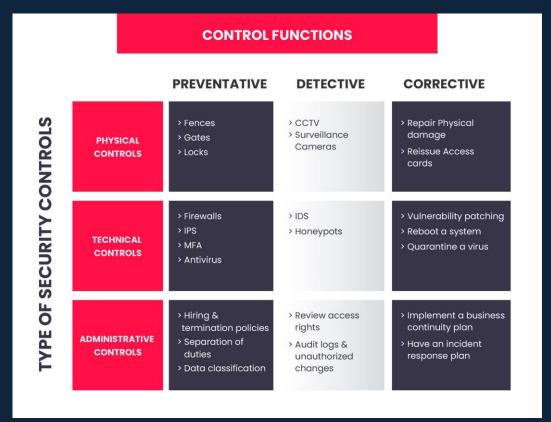
Risk Assessment

- Identify and assess ITrelated risks.
- Prioritize risks based on impact and likelihood.



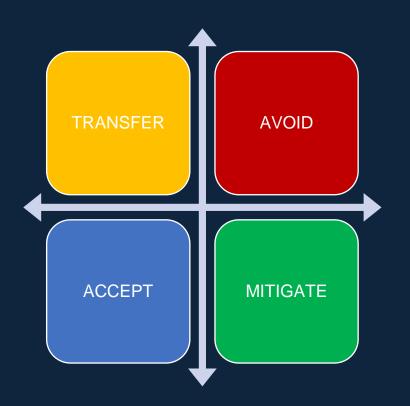
 $Risk = Likelihood \times Impact.$

Security control



Source: infosectrain.com

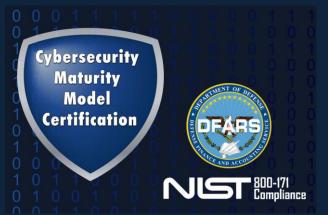








COMPLIANCE REQUIREMENT















The IT audit process

IT audit

- Risk Exposure: Organizations are at risk due to inadequate IT governance structures, exposing them to potential cybersecurity threats, regulatory noncompliance, and operational inefficiencies.
- Vulnerability Gaps: Without a robust IT audit framework, companies may overlook vulnerabilities in their systems, leaving them susceptible to data breaches and other security incidents.
- Regulatory Compliance: Lack of adherence to regulatory requirements can result in legal consequences. Our service addresses the need for comprehensive IT governance and audit practices to ensure compliance.



Audit planning

Clearly define the objectives of the IT audit.

 Determine the scope, including systems, processes, and locations to be audited.

 Develop a detailed audit plan outlining tasks, timelines, and responsibilities.

 Consider using established frameworks such as NIST 800-53, HIPAA(Health Insurance Portability and Accountability Act), CIS v8, ISO 27001:2022, PCI v4, CMMC (Cybersecurity Maturity Model Certification)

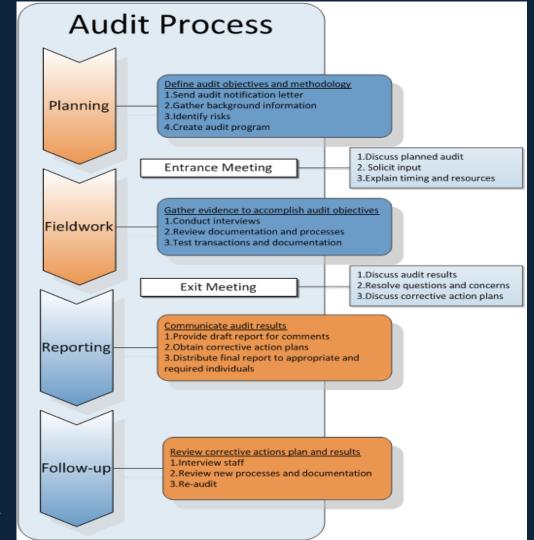


Understand the Business Environment

Gain a comprehensive understanding of the organization's business processes and goals.









Fieldwork (1)

Review IT Policies and Procedures

- Evaluate the effectiveness and adherence to IT policies and procedures.
- Verify that policies are aligned with industry best practices.

Access Controls

- Assess user access controls, ensuring proper segregation of duties.
- Review user account management and provisioning processes.

Network Security

- Evaluate the security of the organization's network infrastructure.
- Assess firewalls, intrusion detection/preventio n systems, and network segmentation.



Fieldwork(2)

Physical Security:

 Evaluate physical security measures for data centers and critical IT infrastructure.

Vendor Management:

- Assess the security controls of third-party vendors and service providers.
- Ensure compliance with contractual security requirements.

Security Awareness Training

 Evaluate if a cybersecurity awareness program is in place with training content that addresses industry-specific threats and aligns with employee roles

Fieldwork (3)

Data Security

- Review data protection mechanisms, including encryption and data loss prevention.
- Assess data backup and recovery processes

Vulnerability Assessment

- Conduct a vulnerability assessment to identify weaknesses in systems.
- Evaluate the organization's patch management process

Incident Response

- Assess the incident response plan and capabilities.
- Review the organization's ability to detect, respond to, and recover from security incidents.



FINAL REPORT

Provide a comprehensive and understandable report to stakeholders.

Document audit findings, including strengths, weaknesses, and recommendations

TOP AUDIT FIDING

- Incomplete or Outdated IT Policies and Procedures
- Weak Access Controls/Review
- Insufficient Data Backup and Recovery Procedures
- Outdated Software and Patch Management
- Inadequate Network Security
- Lack of Security Awareness and Training
- Inadequate Incident Response Planning





Thank you

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