

Cybersecurity Consulting Solution

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Abstract

This paper highlights the problem of cyber attacks and the urgent need for comprehensive cybersecurity solutions. It discusses the vulnerabilities posed by human errors, weak network configurations, the lack of network monitoring and the need of vulnerability assessments. The proposed entrepreneurial solution is the establishment of a cybersecurity consulting firm that addresses these problems. The solution includes prioritizing employee education programs to enhance awareness and reduce human error. The firm would specialize in vulnerability assessments, conducting regular audits to identify weaknesses in network infrastructure. It would also assist organizations in implementing secure network configurations, including firewalls, encryption, and access controls. Additionally, the firm would offer network monitoring services to detect and respond to security incidents promptly. Barriers to expect include resistance from organizations due to budget constraints and lack of awareness, staying updated with evolving cybersecurity landscape, and establishing trust and credibility in a competitive market. Finally, success would be measured by indicators such as employee engagement, decrease in human-related security incidents, identification and timely resolution of vulnerabilities, absence of exploitable weaknesses, and effective detection and response to security incidents. Client feedback, ongoing security monitoring, and reduction in cybersecurity incidents would also demonstrate the success of the provided solutions.

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Introduction:

The proliferation of cyber attacks in today's interconnected world has become an undeniable reality. As businesses increasingly digitize their operations and technology continues to expand, organizations face a wide range of cyber threats that can result in severe damage and disruption. Financial losses, theft of sensitive data, reputational harm, and legal liabilities are just some of the consequences of cyber attacks. The sophistication and frequency of these attacks continue to escalate, necessitating a prioritization of cybersecurity measures by businesses. To effectively mitigate the risks posed by cyber attacks, comprehensive cybersecurity solutions are imperative.

One of the significant problems in cybersecurity is human error, which accounts for a significant percentage of security breaches. Humans are often considered the weakest link in organizational cybersecurity efforts, primarily due to a lack of awareness in recognizing potential threats. Problems such as failure to understand the magnitude of potential attacks, inability to adhere to password rules, recognize phishing emails and social engineering techniques, lack of safe internet practices, and limited knowledge of privacy and data protection methodologies contribute to this issue. Addressing these educational gaps is crucial to minimizing or eliminating cyber attacks caused by human errors. Apart from human-related problems, vulnerabilities in network infrastructure, systems, and applications can jeopardize an organization's overall security posture. Malicious actors constantly exploit networks, systems, and applications, leading to unauthorized access, data breaches, and service disruptions. Conducting vulnerability assessments is necessary to identify and mitigate these weaknesses effectively. Inadequate network configurations pose another significant challenge during cyber

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attacks. Without properly configured firewalls, encryption, and access controls, organizations leave their networks vulnerable to unauthorized access, data breaches, malware spread, and compromises of data security. Additionally, the lack of network monitoring can hinder the identification of anomalous network behavior, patterns, and potential internal threats, thus impeding the ability to detect security breaches or emerging cyber threats.

One reason for the urgency of addressing these problems is the frequency and sophistication of cyber attacks on businesses across many industries. The rising number of data breaches, ransomware incidents, and security breaches underscore the need for effective solutions. Human errors, lack of employee education and awareness, undiscovered vulnerabilities, and inadequate network monitoring contribute to the vulnerability of organizations. To tackle these challenges, an entrepreneurial solution is proposed—the establishment of a comprehensive cybersecurity consulting firm offering a range of services.

Here the suggested cybersecurity consulting firm would prioritize employee education programs to enhance awareness and understanding of potential threats, safe internet practices, and data protection methodologies. Regular training sessions and knowledge-sharing initiatives would empower employees to become a strong line of defense against cyber attacks, reducing the risk of human error as a weak link. The firm would specialize in vulnerability assessments, conducting regular audits to identify weaknesses in network infrastructure, systems, and applications. By proactively addressing vulnerabilities and implementing necessary patches or updates, organizations can minimize unauthorized access, data breaches, and service

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disruptions. The cybersecurity consulting company would also focus on assisting organizations in implementing secure network configurations, including robustly configuring firewalls, encryption, and access controls. This proactive approach would mitigate cybersecurity risks, such as financial loss and compromises of data security arising from insecure network configurations. The firm would also offer network monitoring services to detect and respond to security incidents in a timely manner. Continuous monitoring of network behavior and patterns would aid in identifying potential threats and enabling swift incident response, thereby minimizing the impact of cyber attacks and internal threats.

On the way of addressing these cybersecurity problems, several barriers may be expected. Resistance from organizations due to budget constraints or a lack of awareness about the risks they face may hinder investment in comprehensive cybersecurity measures. Navigating the evolving cybersecurity landscape and staying up-to-date with emerging threats and technologies could pose challenges in delivering effective solutions. Additionally, establishing trust and credibility as a cybersecurity consulting firm in a competitive market may require effort, as clients may have concerns about the reliability and effectiveness of the services provided. On the other hand, the success of the proposed solutions can be measured through various key indicators. Employee engagement and awareness, incident reports, and a decrease in human-related security incidents would demonstrate the effectiveness of the employee education programs. The number and severity of vulnerabilities identified, along with the timely implementation of necessary fixes, would determine the efficacy of vulnerability assessments. Regular security audits and penetration testing would ensure the absence

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of exploitable weaknesses in secure network configurations. The effectiveness of network monitoring would be assessed by the timely detection and response to security incidents, reduction in incident response time, and the ability to mitigate potential threats proactively. Ongoing client feedback, monitoring of security metrics, and a reduction in cybersecurity incidents would also serve as tangible evidence of the success of the provided solutions.

1.0-Describing the Problems

In today's cybersecurity landscape, it is widely acknowledged that no organization is immune to hacking. Despite investing substantial amounts of money in security tools and technologies, companies can still fall victim to massive data breaches. The crucial factor is not preventing breaches altogether, but rather being prepared to respond and recover quickly when they occur. This is where cybersecurity consulting firms come into play, offering specialized expertise to tackle the complex and diverse cybersecurity problems organizations face.

To understand cybersecurity problems, organizations must consider the assets they want to protect, identify potential threat actors, and determine the necessary defense mechanisms. This comprehensive approach ensures effective security measures tailored to the specific risks they face (Kranz). Even large and famous companies in the fields of technology and security are not immune to this problem. For example, in 2017 Equifax data breach exposed sensitive information of 146 million individuals, including names, birth dates, social security numbers, addresses, payment card details, driver's licenses, and passports. The root cause was a vulnerability in the Apache Struts software framework used by Equifax's applications (Kranz). Another

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example is the 2018 Quora data breach, where nearly 100 million user accounts were compromised, revealing names, email addresses, encrypted passwords, questions asked, and answers written. This breach resulted from an insecure database server (Kranz).

Now, These real-world incidents demonstrate the pervasive nature of cybersecurity problems and underscore the need for effective defense mechanisms. Cybersecurity consulting firms play a vital role in addressing these challenges by providing tailored services and expertise. It helps organizations identify vulnerabilities through comprehensive vulnerability assessments and conduct regular audits to strengthen network infrastructure, systems, and applications. By implementing secure network configurations, including robust firewalls, encryption, and access controls, these firms mitigate cybersecurity risks such as unauthorized access and data breaches. Additionally, cybersecurity consulting firms offer employee education programs to enhance awareness and understanding of potential threats, safe internet practices, and data protection methodologies.

1.1 Social Engineering problems

The Problem:

According to the Oxford English Dictionary, the term “social engineering” refers to the use of deception in order to induce a person to divulge private information or esp. unwittingly provide unauthorized access to a computer system or network (Hatfield). Here this definition involves one or more individuals inducing behavior on the part of others, within the domain of cyberspace(Hatfield). Most of the tactics used to perform these attacks involve manipulating individuals to gain unauthorized access or extract

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sensitive information. This is because no matter how great security technologies an organization may have, people are always the weakest link in its security posture (Kranz). Impersonation is a tactic where attackers attempt to deceive victims into revealing authentication details such as usernames and passwords. Third-party authorization is another tactic in which authentication details are stolen or willingly provided to a third party. Phishing emails are also a common form of social engineering attack where attackers send deceptive emails that appear legitimate, aiming to deceive recipients into taking actions like clicking on malicious links or downloading infected attachments (Hartfield). Overall due to the current online world reliance on digital communication and interaction, Social engineering is a real-world problem for it leverages human vulnerabilities and psychological manipulation to deceive individuals. Attackers exploit trust, fear, and lack of awareness to gain unauthorized access, steal sensitive information, or manipulate victims into performing actions that benefit the attacker's goals.

Solution:

Based on the above cybersecurity problems, one of the cybersecurity solutions employed comes from the general PPT (People, Process, and Technology) solution approach (Kranz). At the core of this approach is the emphasis on training people to tackle cybersecurity challenges effectively. Implementing relevant, proportional, sustainable, and continuous social engineering practices tailored to the organization's needs is crucial in enhancing overall cybersecurity posture."(Kranz). For the sake of this entrepreneurial research paper, we can assume a cybersecurity company being approached by a company that has been experiencing a significant increase in

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successful phishing attacks, offers a consultation service based on a comprehensively conducted assessment of the company's current security measures, including employee awareness and training programs. The consulting company analyzes past phishing incidents, identifies common patterns, and evaluates the organization's susceptibility to social engineering attacks. Based on their findings, the consulting firm develops the following tailored social engineering consultation plan.

- 1) The consulting firm designs an intensive employee education and training program about the various forms of social engineering, particularly focusing on phishing techniques. Training sessions include simulated phishing campaigns, where employees can practice identifying and reporting suspicious emails.
- 2) The consulting firm creates engaging awareness campaigns to reinforce cybersecurity best practices. These campaigns involve distributing informative materials and organizing interactive workshops about emerging threats and preventive measures.
- 3) The consulting firm assists in developing an incident response plan specifically for social engineering incidents. This plan outlines step-by-step procedures for detecting, reporting, and mitigating social engineering attacks effectively.
- 4) The firm emphasizes the importance of continuous monitoring and evaluation to gauge the effectiveness of the implemented solutions. Regular assessments, simulated phishing exercises, and feedback.

1.2 Network Configuration problems

Problem:

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Configuring networks is arduous because policy requirements (for resource management, access control, etc.) can be complex and configuration languages are low level. Consequently, configuration errors that compromise availability, security, and performance are common (Fogel, Fung & Luis). In the context of cybersecurity challenges, a network configuration problem refers to any misconfiguration, vulnerability, or weakness in the setup and arrangement of a computer network that exposes it to potential security risks. These problems can arise due to various factors, including human error, inadequate security practices, or lack of understanding about the potential threats and best practices for network configuration. Network configuration problems can manifest in different ways, such as insecure firewall settings, weak access control, lack of encryption, misconfigured network devices and poor network segmentation. A company seeks a network configuration service from a cybersecurity consulting company may be because the company has recently experienced a significant increase in cyber attacks and data breaches, leading to financial losses, reputational damage, and disruptions to their operations and upon investigation, the cybersecurity consulting firm has determined and identified network configuration as a potential weak point in their cybersecurity defenses. This can mean the company's network infrastructure is complex and spans multiple locations and therefore lacks visibility into their network environment and struggles to enforce consistent security policies across all network devices. Furthermore, the company may have also been struggling with compliance requirements and industry standards for network security.

Solution:

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A cybersecurity consulting firm that specializes in network configuration services may address these challenges by first conducting a comprehensive assessment of the company's network infrastructure to identify vulnerabilities, misconfigurations, and areas of improvement that can serve as expert guidance in implementing secure network configurations, including firewall rules, access controls, encryption protocols, and proper segmentation. Based on the assessment findings, the consulting company may provide a detailed recommendation for improving the network configuration. This may involve patching vulnerabilities, implementing proper access controls, segmenting the network, and configuring firewalls and intrusion detection systems. The consulting company may also work closely with the company to design a secure network architecture tailored to their specific needs. This includes defining network segments, establishing secure zones, and implementing robust security controls. In addition, the consulting company may assist the company in implementing the recommended changes to the network configuration, ensuring that firewalls, routers, switches, and other network devices are properly configured to enforce security policies and prevent unauthorized access. Finally, it will assist the company in aligning their network configuration with industry standards and regulatory requirements.

1.3 Network Monitoring

Problem:

Network security monitoring (NSM) is defined as the collection, analysis, and escalation of indications and warnings to detect and respond to intrusions. (Bejtlich and Richard). A common scenario a company may seek network monitoring services from a cybersecurity consulting company can be the lack of internal expertise and resources to

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effectively monitor their network infrastructure. The company may not have dedicated staff with the necessary skills and knowledge to implement and manage network monitoring tools and technologies. They might struggle to keep up with the constantly evolving threat landscape and emerging attack techniques. It may also have limited visibility into their network activities, making it difficult to detect and respond to security incidents in a timely manner. This lack of network monitoring capabilities can leave the company vulnerable to undetected threats, unauthorized access, and data breaches. It can also be the case that the company may be concerned about the potential impact of a security incident on their operations, reputation, and customer trust. They understand the importance of proactive monitoring and timely incident response to mitigate the risks associated with cyber threats.

Solution:

For a company with the above network monitoring problems, a cybersecurity consulting company may provide expertise, tools, and resources to establish a robust network monitoring system. It can offer solutions with real-time threat detection, network traffic analysis, and incident response capabilities to enhance the security posture of the company. Detailed solutions may include the deployment of advanced network monitoring tools and technologies that can monitor network traffic, detect anomalies and suspicious activities, and provide real-time alerts for potential security incidents. This can involve the implementation of intrusion detection systems (IDS), intrusion prevention systems (IPS), log management systems, and security information and event management (SIEM) platforms (Bejtlich and Richard). Skilled cybersecurity analysts

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who can continuously monitor the network, analyze security events, and investigate any detected anomalies or incidents may also be part of the solution.

1.4 Vulnerability Assessment

Problem:

The definition of vulnerability or CVE (Common Vulnerabilities and Exposures) has evolved into a software or hardware bug or misconfiguration that a malicious individual can exploit; patch management, configuration management, and security management all evolved from single disciplines, often competing with each other, into one IT problem, known as Vulnerability or CVE (Manzuik & Steve). Even though it varies depending on organizations size and posture, a company may seek a vulnerability assessment service from a cybersecurity consulting company because it doesn't have cybersecurity professionals with the necessary skills and knowledge to conduct a comprehensive vulnerability assessment. It may be the case that the company may be struggling to keep up with the rapidly evolving threat landscape such as new vulnerabilities (zero day) and attack techniques emerge regularly or even lack the resources to tackle that. It can also be that a company is subject to regulatory or industry-specific compliance requirements that mandate regular vulnerability assessments.

Solution:

A Cybersecurity firm may offer a special consulting solution for another company because conducting regular vulnerability assessments is crucial for identifying weaknesses and vulnerabilities in the company's network, systems, and applications.

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Consulting solutions can be provided through comprehensive assessment of the company's systems, networks, and applications that can identify potential vulnerabilities & weaknesses and risk prioritization & likelihood of exploitation of the system infrastructure. Expert recommendation on mitigating strategies and continuous monitoring and periodic assessment can also be part of the consultation deal. Furthermore, the consulting company may also introduce knowledge sharing and provide employee training to enhance the company's internal cybersecurity capabilities, empowering employees to identify and address vulnerabilities.

problem and innovation in the context of material covered in classes

Materials covered in other classes which highlight the problems and innovations described in this paper are classified based on their disciplines, as follows.

Sociology:

For a society to thrive in the digital age, it is crucial to manage and address the negative effects that technology can have on social interactions. While technological innovations have revolutionized the way people connect and communicate, they have also given rise to new challenges and risks. One such challenge is the phenomenon of victim precipitation, where individuals unknowingly contribute to their own victimization through their online behavior (Erbschloe & Michael). For example, in the context of social engineering, individuals may unknowingly divulge sensitive information or fall prey to manipulative tactics used by cybercriminals. This can result in identity theft, financial fraud, or other malicious activities. To mitigate this risk, technological innovations such as social engineering consulting solutions play a vital role. These solutions aim to raise awareness, educate individuals about potential threats, and

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provide guidance on safe online practices. By implementing effective social engineering consulting solutions, society can empower individuals to recognize and respond appropriately to social engineering attacks. This includes training individuals to identify phishing emails, recognize suspicious online behavior, and safeguard their personal information. Through a combination of technological tools, education, and awareness campaigns, society can promote healthy and secure social interactions in the digital realm, ensuring that technology enhances rather than hinders societal progress.

Criminology:

Within the field of Cybersecurity, solutions provided in this paper such as vulnerability assessment and network monitoring play a significant role in criminology. In the context of criminology, these practices help identify and analyze potential weaknesses and threats in computer systems, networks, and infrastructure, ultimately contributing to the prevention and investigation of cybercrimes. For instance, a financial institution may experience a data breach, resulting in the theft of customer information and subsequent fraudulent activities. By conducting a vulnerability assessment, cybersecurity experts can identify the specific vulnerabilities and weaknesses in the institution's network and systems that allowed the breach to occur. This information can then be used in the criminal investigation to trace the attack's origin, determine the methods employed by the perpetrators, and gather evidence for potential prosecution. In the same manner network monitoring plays a crucial role in criminology by continuously monitoring network traffic, detecting suspicious activities, and identifying potential intrusions or unauthorized access attempts. Network monitoring can provide

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valuable evidence of an attacker's activities, including their methods, targets, and potential motives, aiding in the investigation and prosecution of cybercrimes.

Determine the innovation's effectiveness

Determining the effectiveness of solutions for the above mentioned problems may require looking at several key factors. Firstly, measuring the reduction in social engineering incidents such as successful phishing attacks can indicate the success of social engineering consultation and training programs. Additionally, conducting simulated phishing campaigns and tracking employee responses can assess their improved ability to identify and report suspicious emails. From the network configuration perspective, evaluating the reduction in misconfigurations and vulnerabilities can demonstrate the effectiveness of the consulting firm's recommendations. Monitoring security incidents related to network configuration can also indicate the efficacy of the implemented changes.

Network monitoring effectiveness can be measured by tracking the detection and response time to security incidents. The consulting company can analyze the number and severity of incidents detected through network monitoring tools and the corresponding response time to mitigate them. Furthermore, monitoring metrics such as network traffic analysis and anomaly detection can provide insights into the overall security posture and identify any potential gaps or weaknesses. Finally, on the vulnerability assessment, the effectiveness can be assessed by measuring the reduction in identified vulnerabilities and weaknesses. Conducting periodic vulnerability assessments and comparing the results over time can indicate improvements in the company's security posture.

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Turning Innovation in to reality

To turn the proposed solutions into reality, it is essential to follow some entrepreneurial procedures that act as a roadmap towards success. These procedures are used to encompass some fundamental concepts of entrepreneurship: feasibility analysis, business planning and resource acquisition. Feasibility analysis helps evaluate the viability and demand for the solutions. Business planning establishes a strategic framework, defining objectives, target markets, and marketing strategies. Resource acquisition involves securing the necessary talent, tools, and technologies.

To bring these solutions to fruition, a crucial step is to conduct a comprehensive feasibility analysis across all aspects of innovation. This involves assessing the market demand for various services such as social engineering, network configuration, network monitoring, and vulnerability assessment. By understanding the specific needs and challenges faced by companies in these areas, it becomes possible to tailor the solutions accordingly. Evaluating market demand and identifying the common pain points allows for the development of effective strategies and targeted approaches. Feasibility analysis serves as a roadmap, providing valuable insights and guiding the entrepreneurial journey towards transforming these proposed solutions into a tangible reality.

In order to bring these innovations into reality, it is also essential to follow a systematic approach that includes business planning. This step involves developing comprehensive business plans for each solution, outlining the key elements necessary for success. For the social engineering consultation service, a business plan should be created that defines objectives, identifies the target market, establishes pricing models,

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and formulates effective marketing strategies. Similarly, for network configuration services, a well-crafted business plan is needed, focusing on the target market, competitive advantage, pricing models, and marketing strategies. In the case of network monitoring services, a carefully crafted business plan is essential to identify the target market, highlight the competitive advantage, determine pricing models, and devise effective marketing strategies. Lastly, for vulnerability assessment services, a business plan should be developed that defines the target market, establishes pricing models, and outlines the most suitable marketing strategies. Through thorough business planning, entrepreneurs can effectively strategize and pave the way for the successful implementation of these solutions.

In the journey of transforming these innovative ideas into reality, resource acquisition emerges as a critical step in the entrepreneurial process. It plays a pivotal role in ensuring the successful implementation of the proposed solutions. To accomplish this, several resource acquisition strategies should be employed. For the social engineering solution, it is crucial to hire skilled cybersecurity professionals who specialize in social engineering techniques. Additionally, acquiring advanced tools and technologies for analysis and simulation will enhance the effectiveness of the solution. Similarly, for network configuration services, the focus should be on recruiting cybersecurity professionals with expertise in network configuration and obtaining the necessary tools and technologies for assessment and implementation. In the realm of network monitoring, the key lies in hiring cybersecurity analysts with the required skill set, procuring advanced monitoring tools and technologies, and potentially establishing a Security Operations Center (SOC) if needed. Lastly, for vulnerability assessment

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services, the priority is to hire cybersecurity professionals specialized in vulnerability assessment, acquire vulnerability scanning tools and technologies, and establish strategic partnerships with vulnerability intelligence providers. These resource acquisition efforts are crucial in providing the necessary expertise, tools, and technologies to bring the proposed solutions to life.

Summary of Next Steps

To successfully implement these solutions and bring them into reality, the next strategic step is to assess the market demand for social engineering, network configuration, network monitoring, and vulnerability assessment services. By understanding the specific needs and challenges faced by companies in these areas, solutions can be tailored accordingly and ensure their relevance in the market. This analysis will provide valuable insights and guide the entrepreneurial journey. Creation of individualized business plans for each solution be included in the journey. These plans should define clear objectives, identify target markets, establish pricing models, and devise effective marketing strategies. By focusing on the target market, competitive advantage, pricing models, and marketing strategies for each solution, a strategic roadmap can be developed that can maximize the chances of successful implementation.

To support the implementation process, it is also essential to hire skilled cybersecurity professionals who specialize in social engineering, network configuration, network monitoring, and vulnerability assessment. These professionals will bring the necessary expertise and knowledge to execute the solutions effectively. Furthermore, acquiring advanced tools and technologies relevant to each solution will enhance their

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efficiency and effectiveness. Considering the importance of network monitoring services, establishing a Security Operations Center (SOC) if needed. This center will provide a centralized hub for monitoring and responding to security threats, ensuring comprehensive protection for networks and systems. Finally, establishing strategic partnerships with vulnerability intelligence providers will offer access to valuable insights and up-to-date information on emerging vulnerabilities and threats. This collaboration will strengthen the solutions and enable proactive measures to mitigate risks.

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