Network and Information Security Management

Name

University

Group 03

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## Final Reflection of the NISM Module:

After studying the NISM (Network Information and Security Management) module, my understanding of networking, monitoring and logging tools, information security principles, and vulnerability and scanning tools has increased.

At the beginning of the project, students were divided into three groups for various collaborative lectures and vulnerability identification tasks. I am a member of group 03.

Collaborative meetings allow me to understand and understand the opinions of my colleagues. Everyone brought up different points and perspectives in the discussion. I now understand the difference between risk and vulnerability, which I didn't do before completing the unit goal.

Campbell (2016) defines danger as "a weakness in an investment or management that may be attacked by one or more threats", while a vulnerability is "a vulnerability in an asset or management that may be attacked by one or more threats". My understanding of the security issues facing medical devices has also evolved, given that I have had little knowledge of technological improvements in the industry in the past. I learned how to do the DREAD analysis properly, which is a new concept. As you can see from the joint effort, I need to do a lot of research on this topic to fill in the gaps in my knowledge.

In addition, requirements such as the General Data Protection Regulation (GDPR), the Information Commissioner's Office (ICO), and the Payment Card Industry Data Security Standard (PCI-DSS) must also be considered. Obtaining information for this task was a daunting task for me. It required me to read and understand several research publications (I.T Governance Ltd, 2021) focusing on hazards and vulnerabilities associated with e-commerce platforms.

In this learning mode, the scanning activities introduce me to the many scanning instruments that businesses utilize. In terms of collective effort, each member participates in team dialogue. These findings are analyzed and then adjusted in group discussions. I'm happy with this conclusion because it confirms and validates my understanding of the issue, as it does for the rest of the group (*Examples of Classroom Assessment Techniques*, 2016).

This course's delivery mode is used for pre-determined texts on online educational platforms and pre-determined online discussion groups and lecture schedules. This module's adaptive and participatory approach will facilitate joint research investigations into computer development, helping me progress faster in my chosen field. I will use electronic portfolios to demonstrate our knowledge and abilities by presenting evidence and reflecting on my work. Electronic data will also be used to assess personal growth and continuing education.

We interacted with each other and with our instructors in synchronous courses. Live coding lessons will be included in the workshop to help us contextualize our abilities. Information provided during these synchronous sessions was recorded to study at our leisure. Module lecturers will provide or be prepared to learn liaison meetings by telephone at pre-determined dates and times during the module (usually weekly, in preparation for synchronous meetings). We can contextualize our learning by asking specific and broad questions about the learning opportunities of the week (Khalil et al., 2020).

The project asked the team to utilize various scanning techniques to find vulnerabilities and make recommendations and mitigations to protect problematic websites. As a cybersecurity expert, one method to protect websites and servers is conducting frequent scans and penetration tests using various scanning tools. Scanning tools aim to obtain additional information about a host or target (I.T. Governance Ltd, 2021).

The above initiatives have given individuals, groups and others a wealth of experience in identifying and assessing system weaknesses and providing helpful advice. Additionally, these responsibilities have allowed me to do a more in-depth study of regulators and related regulations (GDRP, ICO, and PCI-DSS) and become proficient in penetration testing exercises with Kali Linux.

We were grouped in this learning mode based on the time zone of the teamwork to ensure that group members could interact freely with each other. We received information on group work and peer assessment procedures at the beginning of the module.

The primary purpose of this module is the basic knowledge of computer systems and security. Understand the principles of information security risk management. Learn about the different monitoring and logging tools, their uses and benefits. Learn how to build and use system vulnerability, assessment tools, and applicable programming methods. The ability to understand future network designs and information assets.Ability to critique and analyze own personal growth. The ability to present essential arguments to different audiences about specific actions or outcomes.

After completing this module, I will be able to: Identify and assess security threats and hazards in I.T. network systems and select appropriate methods, tools, and strategies to manage and address these issues upon completion of this module. Create solutions that help control and monitor risk and security problems through the design and critical evaluation of computer programs and systems. To help systematically examine security vulnerabilities and issues, gather and synthesize information from numerous resources, including online security warnings and warning sites. Describe the legal, social, ethical and professional challenges facing information security professionals.

From my point of view, this course introduced me to the fundamental concepts of computer networking and the skills required to manage information security. This module provides an overview of cybersecurity foundations and concepts for information security governance. Its foundation would be mapping information security management activity to multiple security models. In this learning mode, I examine the security management and protection issues, such as company resources, risk, monitoring, and business continuity strategies. This module also covered Nessus, sniff, Syslog, ELK, and typical network and information security patient monitoring tools. These topics are given to me pleasantly and dynamically, using group and individual tasks.

After completing this module, I was able to get a job in cybersecurity or maybe work as a computer network engineer in an organization. I can tackle all the issues related to the computer network will be easy. I have a great passion for the computer network field, so I have selected this course. In the present era, every organization wants to protect critical information from attackers, and for that purpose, these organizations adopted cybersecurity-related techniques. In this module, I have learned many things related to network security, network management, the network controlling, etc. I have also collected excellent knowledge and working experience as a team member in the group project.

After completing this module, I chose the computer network field as my career. As we all know, the computer network field is a parent field, and there are many career-oriented opportunities where we can serve the organization. This learning mode was well organized, and it provided knowledge from essential to advanced levels. Overall, I can get an excellent job related to the computer network in an organization after completing this module.

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