



NETWORK SECURITY

Individual Reflective Piece



Module-3 Security and Risk Management August 2022

Unit-12 End of Module Assignment: e-Portfolio Submission

My E Portfolio Link: <https://skudachi87.github.io/ShailenderMSc/Module3.html>

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Introduction

We are asked to reflect on the new skills and knowledge we've acquired because of doing this module. The following are the lists of things we have learned and will update in the following document:

- The Security and Risk Management process based on what you have learned in this module.

Throughout the course of this lesson, we gained knowledge on a number of different dangers and vulnerabilities. We became familiar with the Systems for Strategy, Intellectual Resource, Technology, Structure, and Management approach, as well as the FAIR methodology, Octave ideas, and a straightforward definition of risk as the product of a threat multiplied by a vulnerability squared. We were familiar with qualitative and quantitative evaluation approaches, as well as the circumstances in which each approach is most useful. We became familiar with the STRIDE and DREAD attack strategies, as well as attack trees and attack libraries. We are gaining an understanding of how the CVSS model has several flaws. Standards for risk and security management were presented to us for study. GDPR, what it is and many different case studies regarding it, multiple different standards like ISO, PCI-DSS, NIST, etc., and the various regulatory agencies in different locations.

Following the completion of Module 6, our class discussed a variety of quantitative risk modelling approaches (QRM) These include Bayes theorem-based approaches and Monte Carlo simulations, as well as multi-criteria decision analysis tools such as TOPSIS, AHP, and ANP. Probabilistic methodologies include techniques such as Monte Carlo simulations. By running Monte Carlo simulations and applying Bayes' Theorem, we were able to successfully implement quantitative risk modelling (QRM) into our analysis of real-world issues. In both the executive summary and the final submission document, Monte Carlo simulations were performed. We talked about the idea of business continuity and disaster recovery plans (also known as BC&DR plans), as well as the significance of having them and how to make them.

We were successful in determining the components of BC/DR strategies, including Business Impact Assessments, Recovery Time Objectives, and Recovery Point

Objectives (RPOs). We gained an understanding of digitalization, its many stages, and the decision-making process involved in selecting a single source against several sources. Traditional techniques, such as keeping a second failover site or using the "backup and restore" strategy, are inferior to DRaaS in a few significant ways, including those listed above. - End users will still have access to applications and data, DRaaS can frequently be spun up within minutes, and clients will experience minimum inconvenience as they resume operations. We gained knowledge about cloud-native applications as well as a variety of scenarios in which RT) and RPO values can be interchanged. How the functionality and performance of the design are affected by a variety of different circumstances. This was one of the most important lessons that I was able to take away from this module.

- Your individual contributions to the team activities.

During the time that I was contributing as a member of the team, we debated and proposed the concept of choosing the FAIR technique, and we worked on determining several risks. In accordance with the requirements of the task, I have developed a financial risk summary. I was able to assist the team with the Summary and recommendations, as well as select Oracle's NetSuite SAAS solutions and provide my thoughts as well as the reasons why we should utilize it. I was chosen to work on the BCP solution for the next project, and as a result, I have two draft copies with a combined word count of more than 1500 and various potential solutions. We were unable to add a significant amount due to restrictions on the number of words allowed, and the grade for the BCP portion was not satisfactory. I was adaptable and eager to offer my assistance with the consolidation and structure of any documents, as well as any technical inputs, etc.

- Your experience as a member of a development team.

Although I've spent the better part of a decade working in the networking and security industries, I am inclined to approach problems from a strictly technical standpoint, rather than attempting to comprehend the wider picture. By taking this class, I've been given the opportunity to go more deeply into subjects that both interest me and in which I lacked confidence in the actual world (client environment). I was able to further enhance my technical, presentational, and communication abilities by virtue of the collaborative nature of the module as well as the feedback I received from my fellow students. Because of the collaborative nature of some of the requirements, it has been a lot more fun. I believe that I have developed as a thinker and am now able to explore a variety of perspectives.

- The impact on your professional/personal development.

The work that has been done on these projects has, up to this point, been enjoyable. I've been having a hard time keeping up with everything since in addition to working a full-time job, I have weekly deadlines for additional work and meetings. It is not possible to take everything in and keep it all in your memory. It has been a challenging process to ensure both the quality and quantity of the work, but this is true of every module and project. It was a significant challenge for me to develop the most effective version of this component that I can possibly make. After finishing this section, I feel an overwhelming sense of pride as well as contentment. The abilities that I've honed in this course, such as planning and taking a broad view of a subject before analysing it in depth and drawing conclusions, will serve me well in my future professional endeavours. These abilities include planning and taking a broad view of a subject before analysing it in depth and drawing conclusions. My customer is now in the process of upgrading a substantial portion of their network infrastructure. Because of this, having knowledge of security assessments will enable me to discuss and talk more effectively in business meetings, which will be an asset for me. My job promotion will also benefit from the knowledge that I have obtained.