

Security and risk management - Reflective

<https://uvarajb.github.io/uvmseprofile.github.io/Module3.html>

Security and risk management (SRM) are subjects I've studied for the past twelve weeks. In this unit, we learned about the many threats to the IT sector and how to protect against them. This module enhanced our approach to the SRM to the real-time project which we are involved in.

This module taught me the significance of businesses taking preventative measures and implementing security measures. Furthermore, I was aware of the various security measures and mitigating strategies in place to protect information from unauthorised access, disclosure, change, inspection, documentation, or destruction. As a result of the course material, my insight of information security has improved. Only in the presence of confidentiality, availability, and data integrity can information security be achieved.

I learned about CVSS more while engaging in the discussion of Industry 4.0. Before this unit, I only knew CVSS as a rating of security risks. By participating in the forum, I was able to increase my understanding of CVSS and gain new insights from other members. I learned that CVSS isn't the only scoring method and that there are other factors to take into account that make it an unreliable source from reading the posts of my fellow students in the forum.

The GDPR case study provided a significant amount of useful information. The case study, which demonstrates how important it is for data controllers to put appropriate mechanisms into place, enables data controllers to respond to access requests and document their compliance with regulations. Other case studies illustrate the importance of GDPR's data protection provisions.

When working on the assignment as a group, one of the most interesting and beneficial aspects was being required to have conversations with other students enrolled in the class. Permit me to gain perspective from the many different people I work with while we complete these evaluations. Group discussions on a wide range of subjects provide real value and leave the door open to exploring new subjects every time.

Unit 6 assignment, requires us to evaluate risk during the digitalisation process of the bricks-and-mortar based Pampered Pet business, this assignment is both very interesting and relevant to the work that I do. Assessing the potential risks to security that the organization can face in supply-chain and in the digitalizing their business, in addition to the factors that should be taken into consideration prior to, during, and following the process of digitalization, such as the requirement for a business continuity and disaster recovery plan.

To accomplish the many tasks that went into the creation of this module, there were a variety of specific steps that needed to be taken. An independent assignment on Monte

Carlo simulation included working through some exercises based in Excel. In the until 11 assignments, we made use of the AHP module, which was a huge help in demonstrating the weightage of the risk that the Executive should prioritise when drafting the plan for the global supply chain and the digitalization process. The risk modelling techniques we studied in this task are ones that I am confident I can use in the real world.

I found this module on disaster recovery to be both interesting and informative. This is similar to my current occupation. I assist clients in migrating from on-premise datacenters to the public cloud. This unit has provided me with a wealth of knowledge-enhancing insights. Now I can ask the customer the appropriate questions and provide effective solutions. This module taught me that business continuity and disaster recovery plans are vitally important. Due to a poor recovery point objective (RPO) and recovery time objective, the company lost data dating back approximately two months and took a long time to recover from the ransomware attack (RTO). If a DR test is not possible, I now understand the importance of tabletop exercises for BCP/DR.

After finishing this module, I am able to think back to the time when our company was hit by a ransomware attack and recognise how important it was to regularly review our policies to ensure that we were in compliance with all industry standards. I was able to do this because I am now able to reflect on the events that transpired during that time. As an engineer, I was given the opportunity to participate in the recovery process for a client following the execution of a ransomware attack. Once I finally understood why SRM was so important for any company, I realised that I could make significant contributions. Because of this module, I now understand the critical importance of educating both individuals and organisations about potential security risks and the means by which these risks can be mitigated. We can help those who are unaware of the dangers learn about them and devise plans to mitigate them if we increase public awareness of these issues and bring them to more people's attention.

I came into the course with very limited prior knowledge of the topic. However, by the end of the course, I had good understanding of the significance of having a risk management plan in place, as well as how to effectively manage the risks that are posed to IT infrastructure. As a consequence of this, I now have a better understanding of how to develop a plan for risk management, as well as the various risks I may face and how to manage them across the IT infrastructure of the organisation. My day-to-day work is significantly improved as a result of my exposure to the tools covered in this module. Because I am able to apply what I've learned about training in my current job to encourage more productive work efforts, the breadth and depth of my training knowledge have both increased significantly as a result.