



BITS 3523 COMPUTER AUDIT & RISK MANAGEMENT PROJECT WEEK 9 - 14

COMPUTING AUDIT, RISK ANALYSIS & RECOMMENDATION



Introduction:

The implementation of innovation in computing technology has helped organizations to improve the efficiency of their business processes and considerably increase their data processing and transmission capacity and also introduced new vulnerabilities that need to be controlled. Each new vulnerability needs to be controlled; assessing the adequacy of each control requires methods of risk management. With the increase in investment and dependence on computerized systems, it has become imperative for auditors to change the methodology and approach to audit because of the risks to data integrity, abuse, privacy issues, etc. An independent auditor is required to provide assurance that adequate measures have been designed and are operated to minimize the exposure to various risks.

Instructions:

Let's assume your group is appointed as an internal auditor by MyComputer Sdn Bhd in auditing their computing environment assets. One of their computing environment comprises **3 Virtual Machine** as follows:

VM1: Windows Server 1 (assume contain payment system application server)

VM2: Windows Server 2 (assume contain database server)

VM3: Windows Server 3 (assume contain email server)

(if possible download the vulnerable OS from the internet)

You are requested by the Chief Technology Officer of the company to perform risk management tasks against these computing environments' assets. In addition, you are required to give some recommendations and highlight the findings based on the conducted risk management processes.

Perform this task as your project.

Perform a group that comprises **4 STUDENTS** and complete the above-mentioned task from Week 8 - 13.

Each group needs to set up 3 VMs (**VM1, VM2, and VM3**) separately. Make sure the VMs is not updated or patched in order to facilitate your task to perform an analysis. All students (by group) **MUST UPDATE LAB PROGRESS ACTIVITIES DURING LAB HOURS** from **Week 8-13**.



Deliverable:

1. Progress update from Week 8-13. (*5 marks*)
2. Complete Report of Risk Management & must be handed over on Week 14. (*10 marks*)
3. Final Presentation via PowerPoint Slides on Week 14. (*5 marks*)
4. Peer Assessment.


Tips:

Choose 1 Standard that can be applied to that computing environment such as under ISO/IEC 27000 Family Standard.

Performing risk assessment processes such as :

- i. risk identification 
- ii. risk analysis (*including scanning, vulnerability identification, and report*)
- iii. risk evaluation 

Performing risk treatment processes such as:

- i. determine controls
- ii. risk treatment plan 
- iii. residual risk

The report must contain the entire process involved in risk management. *Go through all the risk management slides.*

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