

**CIT-227-004/2014**

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**Assignment 2(2/12/2019)**

**Question**

Consider a typical Multi-Branched Banking Network supporting staff and customers with wireless and fixed network access points. Carry out a risk profile to outline five Threats, their Likelihood, Risk Value, Priorities and suggested Counter measures. (10 marks)

**Answer**

<b>Likelihood</b>	<b>Definition</b>
High	The threat-source is highly motivated and sufficiently capable, and controls to prevent the vulnerability from being exercised are ineffective
Medium	The threat-source is motivated and capable, but controls are in place that may impede successful exercise of the vulnerability
Low	The threat-source lacks motivation or capability, or controls are in place to prevent, or at least significantly impede, the vulnerability from being exercised.

The table shows the likelihood definitions of the risk profile

<b>Threat</b>	<b>Likelihood</b>	<b>Risk Value</b>	<b>Priorities</b>	<b>Counter Measures</b>
Fraudulent movement of funds away from their owner by a member of staff in one of the branches.	Medium	High	Medium	Creation of multilevel hierarchy in large transactions being performed. Also limit the amount of money that can be transacted by a customer to avoid big losses.
Data could be inappropriately extracted/modified from DMV database by entering SQL commands into input field by Hackers	High	High	High	Ensure that all parameters are validated before they are used. A centralized component or library is likely to be the most effective, as the code performing the checking should all be in one place. Each parameter should be checked against a strict format that specifies exactly what input will be allowed.

Disaster recovery plan has not been established	Medium	High	Medium	Develop and test a disaster recovery plan.
User system passwords can be guessed or cracked Hackers by hackers or through spoofing	High	High	High	Require use of special characters when creating user password in the banking system.
Systems or Network failure which leads to a stop of operations and can lead to loss of customers or data	Medium	Medium	medium	Continuous system and Network checks by the IT team to ensure smoothness in the operations.

The table shows the threats.