**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**

|  |  |
| --- | --- |
| **Likelihood** | **Definition** |
| 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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Threat** | **Likelihood** | **Risk Value** | **Priorities** | **Counter Measures** |
| 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.