



Module 5: Case Study: Vulnerability Analysis

Problem Statement:

You are a cyber security consultant and you are tasked with evaluating the security of a web application www.goodshopping.com for a financial institution. Perform a thorough Nikto scan to uncover vulnerabilities and misconfigurations and then provide actionable recommendations to bolster the application's security and safeguard sensitive financial data.

Objective:

The objective of this assignment is to perform a vulnerability assessment on a target web application and network services using OpenVAS and Nikto. This assignment will help you develop skills in identifying and assessing vulnerabilities in both web applications and network services.

Tasks to be Performed:

1. **Scan the Web Application:** Perform a comprehensive scan of the target web application using Nikto.
2. **Analyze Nikto Scan Results:** Analyze the Nikto scan results to identify potential vulnerabilities, misconfigurations, or security issues in the web application.
3. **Provide Recommendations:** Based on the findings from the Nikto scan, provide recommendations on how to address the identified vulnerabilities and security concerns in the web application.

Note: Ensure that you have proper authorization to perform network enumeration on the chosen target. Always follow ethical and legal guidelines when conducting security assessments. The target could be any authorized domain or any of the domains from the below list:

1. www.certifiedhacker.com
2. www.moviescope.com
3. www.goodshopping.com
4. Testphp.vulnweb.com
5. Machine IP from your Lab Setup