**DEPI Round 1 – Final Project Assessment**

**Part 1: Final Project Plan**

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| **Instructor Name:** | Khaled Taha |
| **Track Name:** | Vulnerability Analyst - Penetration Tester |
| **Group Code:** | GIZ1\_ISS5\_S1e |

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| **Project Title:**  *(Choose a clear and concise title for the project)* | **Network Vulnerability Assessment and Hardening** |
| **Start and End Date Project:**  *(Write accurate start and end date of the project)* | **Start Date: 21/9/2024** |
| **End Date: 17/10/2024** |
| **Project Team:**  *(Full name of students’ members of the project)* | 1. Hussein Alyamnii Zein-eldeen 2. Mohamed Ashraf Mohamed 3. Shady Mohamed Abdel gawad 4. Ziad alaa elshabrawy 5. Abdelrahman ahmed 6. Omar badr |
| **Project Objectives:**  *(Clearly state the objectives or goals of the project)* | Conduct a thorough vulnerability assessment of a simulated network environment and apply hardening techniques to secure the network. |
| **Project Methodology:**  *(Outline the methods, tools, or techniques you plan to use to achieve the project objectives)* | * Reconnaissance and Network Discovery * Vulnerability Scanning and Analysis * Test services and misconfigurations * Penetration Testing Report |
| **Project Resources and Tools:**  *(List any materials, software, or resources you will need to complete the project)* | Nmap  Nessus  metasploit |
| **Project Expected Outcomes:**  *(Describe the anticipated results or deliverables of the project)* | * **Comprehensive Security Assessment:** A detailed report outlining vulnerabilities discovered in the company’s systems, categorized by risk level (Critical, High, Medium, Low). * **Vulnerability Mitigation Plan:** Recommendations on how to fix or mitigate the identified vulnerabilities to improve overall security. * **Penetration Testing Report:** A formal document that includes test scope, methodology, findings, and remediation steps for each vulnerability. |
| **Project Risk Assessment:**  *(Identify any potential challenges that may arise during the project. Propose solutions plans for handling them)* | **Technical Challenges:**   * *Potential Challenge:* Some vulnerabilities may be difficult to exploit due to the use of advanced security mechanisms. * *Solution Plan:* Leverage a variety of tools and techniques (such as fuzzing, automated tools, and manual testing) to thoroughly assess the system. |

**Part 2: Final Project Evaluation**

**Evaluation Rubric**

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| Criteria | Description | Excellent  (90-100%) | Good (80-89%) | Satisfactory  (70-79%) | Needs Improvement (<70%) |
| Depth of Research | Check if students have provided a thorough **literature review** or background analysis, using relevant sources. Evaluate the **accuracy and relevance** of the content to the course objectives. | In-depth, thorough, and insightful research | Good research, minor gaps | Sufficient research, but lacks depth | Limited or superficial research |
| Methodology and Execution | Examine if the chosen methodology was appropriate and if the project followed a structured approach. Look at the **problem-solving process** and whether students overcame challenges logically. | Flawless, well-organized, and logical execution | Strong, minor errors present | Adequate but disorganized in parts | Poor planning and lack of focus |
| Creativity and Innovation | Determine whether the student approached the topic in a **unique way**, proposed **new ideas**, or **presented solutions** that differ from standard approaches. | Highly original and creative | Good creativity, some original ideas | Some creativity, but mostly standard | Lacks creativity, very basic |
| Practical Application | Examine whether the project has **real-world relevance** and if the students successfully connected theory to practical use. Consider the potential **impact** of the project. | Demonstrates real-world relevance or impact | Has some practical relevance | Limited practical connection | Little to no real-world relevance |
| Presentation Skills | Evaluate the **clarity, organization, and confidence** in the oral presentation. Look at the quality and effectiveness of any **visual aids.** | Clear, confident, and engaging | Good, with minor issues | Adequate, lacks engagement | Unclear, unorganized, hard to follow |
| Written Report | Review the **structure** and **quality** of required reports/documentations. | Well-structured, no errors | Clear, minor errors | Basic structure, some errors | Disorganized, many errors |
| Teamwork | Evaluate the **distribution of roles** and whether each team member contributed equally. Assess the team’s ability to **collaborate** effectively and manage any conflicts. | Excellent collaboration | Good teamwork, minor issues | Some collaboration, uneven | Poor teamwork, unequal contribution |

**First Week**

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| **Date:** |  |
| **Deliverables:** | Network map, list of discovered devices, services, and open ports. |

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| **Student ID** | **Student Name** | **Depth of Research (%)** | **Methodology and Execution (%)** | **Creativity and Innovation (%)** | **Practical Application (%)** | **Presentation Skills (%)** | **Written Report (%)** | **Teamwork (%)** |
| **21017183** | **Shady Mohamed Abdel Gawad** |  |  |  |  |  |  |  |
| **21044188** | **Hussein Alyamnii Zein-eldeen** |  |  |  |  |  |  |  |
| **21038642** | **Ziad alaa elshabrawy** |  |  |  |  |  |  |  |
| **21044188** | **Mohamed Ashraf Mohamed** |  |  |  |  |  |  |  |
| **21051546** | **Omar badr** |  |  |  |  |  |  |  |
| **21011573** | **Abdelrahman ahmed** |  |  |  |  |  |  |  |
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**Second Week**

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| **Date:** |  |
| **Deliverables:** | Vulnerability scan reports, analysis of high-risk vulnerabilities. |

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| **Student ID** | **Student Name** | **Depth of Research (%)** | **Methodology and Execution (%)** | **Creativity and Innovation (%)** | **Practical Application (%)** | **Presentation Skills (%)** | **Written Report (%)** | **Teamwork (%)** |
| **21017183** | **Shady Mohamed Abdel Gawad** |  |  |  |  |  |  |  |
| **21044188** | **Hussein Alyamnii Zein-eldeen** |  |  |  |  |  |  |  |
| **21038642** | **Ziad alaa elshabrawy** |  |  |  |  |  |  |  |
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**Third Week**

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| **Date:** |  |
| **Deliverables:** | Documented system hardening steps, before-and-after vulnerability assessment results. |

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| **Student ID** | **Student Name** | **Depth of Research (%)** | **Methodology and Execution (%)** | **Creativity and Innovation (%)** | **Practical Application (%)** | **Presentation Skills (%)** | **Written Report (%)** | **Teamwork (%)** |
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| **21044188** | **Hussein Alyamnii Zein-eldeen** |  |  |  |  |  |  |  |
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**Fourth Week**

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| **Date:** |  |
| **Deliverables:** | Penetration testing report with findings, recommendations, and evidence of successful mitigation. Final presentation summarizing the project, approach, findings, and lessons learned. |

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| **Student ID** | **Student Name** | **Depth of Research (%)** | **Methodology and Execution (%)** | **Creativity and Innovation (%)** | **Practical Application (%)** | **Presentation Skills (%)** | **Written Report (%)** | **Teamwork (%)** |
| **21017183** | **Shady Mohamed Abdel Gawad** |  |  |  |  |  |  |  |
| **21044188** | **Hussein Alyamnii Zein-eldeen** |  |  |  |  |  |  |  |
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**Final Project Delivery Evaluation**

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| **Date:** |  |
| **Project Final Evaluation and Grade (%):** | *Comment by project’s evaluation according to its Functionality and Performance, Tools integrations, Design and Architecture, Creativity, Alignment with Project Requirements, Real-World Relevance, Scalability and Maintainability* |
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| **Student ID** | **Student Name** | **Training Final Evaluation**  *Comment by student’s evaluation according to Knowledge Acquisition and application, Skills Development, Attendance and Participation, Learning Goal Achievement, Tasks Completion Rate* | **Final Grade (%)** |
| **21017183** | **Shady Mohamed Abdel Gawad** |  |  |
| **21044188** | **Hussein Alyamnii Zein-eldeen** |  |  |
| **21038642** | **Ziad alaa elshabrawy** |  |  |
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| **21051546** | **Omar badr** |  |  |
| **21011573** | **Abdelrahman ahmed** |  |  |
|  |  |  |  |
| **Student ID** | **Student Name** | **Project Final Evaluation**  *Comment by student’s evaluation according to Visual Presentation, Functional Output, Oral Presentation,*  *Live Demonstration, Deadline submission, Team Collaboration* | **Final Grade (%)** |
| **21017183** | **Shady Mohamed Abdel Gawad** |  |  |
| **21044188** | **Hussein Alyamnii Zein-eldeen** |  |  |
| **21038642** | **Ziad alaa elshabrawy** |  |  |
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