

Introduction to CTF Cyber and CIA Triad

Objective:

This assignment is designed to introduce students to the world of Capture The Flag (CTF) challenges through the CTF Cyber platform. Students will explore various cybersecurity puzzles and analyze each puzzle in the context of the CIA Triad (Confidentiality, Integrity, and Availability).

Instructions:

Puzzle Exploration

1. Visit the CTF Cyber website: <https://practice.ctfcyber.org/challenges>
2. In your table groups, choose at least five puzzles that interest you. Some puzzles may be more difficult to solve using a Chromebook, so explore the site and find ones that can be solved using available resources. Feel free to use any and all tools necessary.
3. Solve each puzzle, and for each one, provide the following information:
 - **Puzzle Name:**
 - **Description of the Puzzle:**
 - **Solution Steps:**
 - **Relevance to the CIA Triad** - *Explain how the puzzle relates to one or more aspects of the CIA Triad (Confidentiality, Integrity, and Availability). Consider how the puzzle might involve protecting sensitive information, ensuring data accuracy, or maintaining system availability:*

Submission:

Compile your findings into a well-organized Google Doc. Ensure you clearly present the information for each puzzle, including the puzzle name, description, solution steps, and the relevance to the CIA Triad.

Assessment:

Your assignment will be assessed based on the thoroughness of your puzzle descriptions, the accuracy of your solutions, and the clarity of your explanations relating each puzzle to the CIA Triad. Additionally, successful completion of the assignment involves submitting screenshots or written evidence of puzzle solutions.