**Digital Forensics Assignment#1**

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**Assignment: Designing an Untraceable Cybercrime Scenario**

**Objective:**

The goal of this assignment is to challenge your understanding of digital forensics by designing a cybercrime scenario that effectively bypasses forensic tools. This exercise will help you think like both an attacker and a forensic investigator, enhancing your critical thinking in digital forensics.

**Task:**

Your task is to create a realistic crime scene where traditional forensic tools fail to detect or trace the attack. You need to design a scenario that:

1. Defines the Crime: Clearly describe the cybercrime you are simulating (e.g., data breach, ransomware attack, digital fraud, etc.).

2. Identifies Target and Methodology: Specify the target system, attack vectors, and techniques used.

3. Explains Evasion Strategies: Demonstrate how forensic tools like disk analysis, memory forensics, log analysis, or network monitoring would be bypassed.

4. Provides Countermeasures: Discuss potential forensic techniques that could be used to uncover the attack despite the bypassing attempts.

5. Include the technicalities involved in this task.

**Deliverables:**

* A detailed report (1000-1500 words) explaining the attack scenario, evasion methods, and forensic challenges.
* A diagram or flowchart illustrating the attack process and evasion techniques.
* A reflection section discussing how investigators might still detect traces of the attack.
* Crime Scene should not be theoretical but also make a folder in terms that you have to show your implementation.

**Evaluation Criteria:**

• Creativity and originality in attack design

• Depth of technical analysis

• Realism and feasibility of the scenario

• Understanding of forensic tools and their limitations and also provide Clarity and structure of the report.