



The Many Ways Data Can Be Compromised

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Topic 1: Data Tampering

- What is data tampering and how does it differ from data deletion or corruption?
- Give examples of how data tampering could be used maliciously (think beyond just changing numbers).
- What are some techniques used to detect or prevent data tampering?



Topic 2: Data Interception

- Explain how data moves through networks. Can it be intercepted at different points?
- What tools or techniques can attackers use to intercept network traffic?
- Find a real-world example of a data interception attack. Who was affected, and what was the impact?

Topic 3: Man-in-the-Middle Attacks (MitM)

- What is a Man-in-the-Middle attack and how does it work? Draw a simple diagram.
- How do these attacks exploit trust between communicating parties?
- Why might an attacker want to intercept traffic rather than just block it?

Topic 4: Data Theft

- Besides stealing your credit card information, what other types of data are valuable to attackers?
- What's the difference between data exfiltration and credential compromise?
- How can attackers use compromised login information to cause further harm?



Topic 5: Malware

- Give a basic definition of malware. What are the different categories (viruses are just one type!)?
- How does malware spread? What makes some types of malware more insidious than others?
- How does malware evade detection by antivirus software?

Topic 6: Cyberbombs

- What's the difference between regular malware and a "cyberbomb" or "logic bomb"?
- Find examples of real-world cyberbombs used in cyberwarfare or corporate sabotage.
- What types of triggers could be used to activate a cyberbomb?

