

Homework Assignment 1: Introduction to Information Security

Instructions:

Your response should demonstrate your understanding of the core concepts introduced in Chapter 1: Introduction to Information Security. Be sure to use specific examples and terminology where appropriate. This assignment is due on June 17 @ 11:59pm

1. Discuss the trade-off between security and convenience in modern technology environments. Provide real-world examples to illustrate your points.
2. Explain the CIA triad (Confidentiality, Integrity, Availability) and how it forms the foundation of information security. Describe a scenario in which a failure in one of these principles could lead to a security breach.
3. Describe the different types of threat actors (e.g., insiders, hackers, nation-state actors) and their motivations. Choose one threat actor type and write about a real or hypothetical situation involving their actions and impact.
4. Explain the concept of 'shadow IT' and evaluate its potential risks and benefits within an organization. Provide suggestions on how businesses can manage shadow IT effectively.
5. Discuss the importance of security frameworks, standards, and regulations in protecting organizational information. Compare at least two types of cybersecurity resources mentioned in the chapter.