

Lab – The Cybersecurity Cube Scatter Quizlet

Objectives

Identify the three dimensions of the Cybersecurity Cube and the elements of each dimension.

Required Resources

- PC or mobile device with Internet access

Background / Scenario

The Cybersecurity Cube, also called the McCumber Cube, was developed by John McCumber in 1992. It is a framework or model used to establish and evaluate information and information systems security. The framework relies on the cybersecurity professional to identify information assets with a focus on the core principles of cybersecurity; confidentiality, integrity, and availability. The model is based on three dimensions, each having three elements.

Dimension One: Cybersecurity Principles CIA
• Confidentiality: assurance that sensitive information is not intentionally or accidentally disclosed to unauthorized individuals • Integrity: assurance that information is not intentionally or accidentally modified in such a way as to call into question its trustworthiness or reliability • Availability: ensuring that authorized individuals have both timely and reliable access to information and information systems
Dimension Two: Information (data) States
• Storage: data at rest (stored in memory, on a drive, or USB flash drive) • Transmission: transferring data between systems • Processing: performing operations on data like modification, backup, corrections
Dimension Three: Security Countermeasures or Safeguards
• Policy and practices: administrative controls, such as information security policies, procedures, guidelines, and management directives • Human factors: ensuring that the users of information systems are aware of their roles and responsibilities. Requires awareness and education programs. • Technology: software- and hardware-based solutions designed to protect information systems, like anti-virus, firewalls, and IDS/IPS systems.

Quizlet Review

Click on the [Quizlet](#) website and review the Cybersecurity Essentials - Cybersecurity Cube. You do not need to create an account on the site.

- Review the list of terms and definitions.
- Select the Flashcards icon. Test your knowledge by going through all ten flashcards.
- Click the Scatter option in the menu. When prompted, click to start the game.

- d. Drag each term to its definition.