Lab - The Cybersecurity Sorcery Cube Scatter Quizlet

Objectives

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

Required Resources

PC or mobile device with internet access

Background / Scenario

The McCumber Cube was developed by John McCumber in 1992. It is a framework that is 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 antivirus, firewalls, and IDS/IPS systems.

Quizlet Review

Go to this Quizlet website and review the Cybersecurity Essentials - Cybersecurity Sorcery Cube. Although an account for quizlet.com is not required, you may want to sign up to avoid having to close the sign-up dialog box every time it pops up.

a. Review the list of terms and definitions.

b. Select the Flashcards icon. Test your knowledge by going through all ten flashcards.

   c. Click **Back**.

   d. Click **Match** under the **Play** heading. When prompted, click to start the game.

   e. Drag each term to its definition.