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The CIA Triad

BLUF: The CIA Triad is a fundamental concept in information security that stands for Confidentiality, Integrity, and Availability. It serves as a model for understanding and implementing security policies and measures to protect sensitive information and systems.

1. Confidentiality:

Ensures that information is accessible to only those who have the proper authorization or clearance to access it. (CIS Article, 2021)

2. Integrity:

Ensures the accuracy and reliability of data and systems. Involves safeguarding against unauthorized or accidental changes to data.

3. Availability:

Ensures that data and systems are accessible by those authorized when needed and are not subject to disruption or downtime. Involves maintaining hardware and infrastructure (Chai Article, 2022)

4. Authentication vs. Authorization:

Authentication is verifying the identity of a user, system, or entity trying to access a resource, while authorization determines what actions or resources an authenticated entity can access.

In summary, The CIA Triad is a framework for information security encompassing confidentiality, integrity, and availability. Together, these concepts form the basis for secure access control and data protection in information systems.

Chai, W (2022, June 28th) What is the CIA Triad? Definition, Explanation, Examples.

<https://drive.google.com/file/d/1898r4pGpKHN6bmKcwlxPdVZpCC6Moy8l/view?pli=1>

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Center for Internet Security (2021, June 15th) Election Security Spotlight – CIA Triad

<https://www.cisecurity.org/insights/spotlight/ei-isac-cybersecurity-spotlight-cia-triad>