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Write – Up: The CIA Triad

BLUF: In this discussion we will discuss what the CIA Triad stands for and what its purpose is. Well will sources to determine the difference between authentication and authorization and how it is used in daily life.

CIA Triad

The CIA Triad stands for Confidentiality, Integrity, and Availability. Confidentiality purpose is to ensure privacy at all times. Confidentiality keeps unauthorized users from accessing classified information such as passwords, classified government information, or even military defense. Integrity ensures accuracy and trustworthiness. This makes sure that data received isn't tampered with by any unauthorized users. Availability ensures reliability and timeliness. This makes sure that authorized users are able to access data easily and in a timely manner. The CIA Triad represents the basis for cybersecurity. Failing to follow protocol for the three principles can lead to data breaches and many other things.

Authentication and Authorization

The CIA Triad connects the concepts of authentication and authorization. Authentication's purpose is to verify a person or systems identity that is trying to access another database. In the CIA Triad article Ryan Moss basically states that authorization is when the user or system is given access to specific data. An example of authentication and authorization being used in your day-to-day life would be when you are trying to log into your apps. When logging in you have to sign in with your email and password. The system will then verify the information that has been given and will send the user a verification code to verify the user's identity. Once this verification is complete the user is now authorized to access the information in the account. The two are different because

authentication is needed to access the authorized data. Authentication and authorization work as a team against possible breaches in data.

Conclusion

The CIA Triad lays the foundation to protect against data breaches. With authentication and authorization working hand in hand, these safety protocols add another form of protection against cyber threats. Confidentiality, Integrity, and Availability in cybersecurity is what continues to protect our data in our everyday lives.

Sources

[The CIA Triad | Brittney M. Davis](#)

[What is the CIA Triad (Confidentiality, Integrity, Availability)?](#)

[The CIA Triad, Authentication, and Authorization | Ryan Moss](#)

[What is the CIA Triad_ Definition, Explanation, Examples - TechTarget.pdf - Google Drive](#)