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The CIA Triad Explained

The Three Cores of the CIA Triad

The CIA Triad framework includes 3 core foundations (confidentiality, integrity, availability) that help secure data. Confidentiality makes sure that data is only available to the people who are authorized to see it. Integrity focuses on making sure that the data stays as it is and is not altered. Availability ensures that data is always available for the user to view if needed.

Authorization vs. Authentication

Authorization goes along with confidentiality. Authorization only allows certain people who are authorized to see certain information. An example of this would be different positions in a company. Companies have different departments and the workers in each department are authorized to see different data than a worker in a different department would be authorized to see. Authentication is the process of giving everybody an identity within a system. An example of authentication would be a worker logging in with their username and password to their company's website.

In summary, understanding the CIA Triad (confidentiality, integrity, availability) and the roles of authorization and authentication is crucial when securing data.