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## CIA Triad

*In this write up I will be explaining what the CIA Triad is and the difference between authentication and authorization with examples.*

### CIA Triad

The CIA Triad is a checklist to evaluate the risk of an organization's security and is fundamental to having safe and protected data. Confidentiality is the level of privacy. This aspect is in place in order to protect someone's information across the internet. You are to have more security based on how much and the level of importance of someone's information they are sharing. The level of protection would be much higher if it was someone's social security number rather than their birthday. Integrity is the consistency of protection, making sure information is not changed through transit. If a data breach were to happen there are steps in place in order to protect customers so their personal information cannot be changed or altered. Availability refers to the amount of access someone has, if any, and how readily available the data is. Someone who is a custodian in a hotel has no need to access a customer's credit card unlike the hotel receptionist. These three letters are crucial in order to have the utmost protected security procedures in an organization.

## **Authentication and Authorization**

Authentication is the process used to verify someone while authorization is the process of what the user has access to. Authentication according to Merriam-Webster Dictionary is defined as, “an act, process, or method of showing something (such as an identity, a piece of art, or a financial transaction) to be real, true, or genuine : the act or process of authenticating something” (n.d). Authorizing is defined by Merriam-Webster Dictionary as, “ to endorse, empower, justify, or permit by or as if by some recognized or proper authority (such as custom, evidence, personal right, or regulating power)” (n.d). In the cyber world authentication is done by information produced by the user like passwords or one-time pins whereas authentication is given through the organization's settings. To get into the gradebook, students have to perform a two-step-verification process and only have the authorization to view their grades while professors are able to input and change grades.

## **Conclusion**

The CIA Triad is a simple yet effective risk management layout that can ensure protection across one's organization. Authentication is the action of verifying that someone is who they are saying they are. After authentication comes authorization, where the user is granted access to data they are verified for.

## References

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