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BLUF

*The CIA Triad is a set of principles that guides an organization's information security. The “C” meaning confidentiality, “I” being Integrity, and “A” meaning availability. In the triad there has been confusion pertaining to what is the difference between authentication and authorization.*

## What is the CIA Triad and what are their goals?

In cybersecurity there are a set number of rules that each organization may most likely follow to ensure they reach the company or organization's main goal of providing the best security for their users. These specific set of rules are known as the CIA Triad. The C stands for Confidentiality. Confidentiality which means coming up with specific methods to prevent users from tweaking or altering data to ensure privacy. (Chai,2022) Integrity means taking into account the workload and what you are signing up for meaning you will try your best to ensure the best quality of protection for one's data.(Chai, 2022) Lastly, availability which means trying to provide assistance at any given point in time or as soon as possible. (Chai,2022)

## The difference between Authentication and Authorization

When taking into account the data aspect of Cyber Security and the CIA triad one may hear the term Authentication and or Authorization. Although they are typically talked about or referred to together they are not the same. As stated in *What Is The Difference Between Authentication And Authorization?* “Authentication verifies who you are.” (*What is the Difference Between*

*Authentication and Authorization?, 2009*) This means verifying that you are who you say you are.

One example is two step authentication. "Authorization verifies what you are authorized to do."

*(What is the Difference Between Authentication and Authorization?, 2009)* One example is a person being able to have access to a level one security clearance of a company, but no authorization to reach level two.

## Conclusion

In conclusion, the CIA Triad is a set of principles that each cyber company has in play to ensure they reach the goal of providing the best service possible. C standing for Confidentiality, I standing for Integrity, and A for availability. To add on, with that knowledge in the Triad there is slight confusion between authentication and authorization. Authentication means ensuring the person is the correct person. Authorization meaning what you are and are not able to do.

## References

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

*What Is The Difference Between Authentication And Authorization?* (2009, March 13).

NixCraft. <https://www.cyberciti.biz/faq/authentication-vs-authorization/>