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## The CIA triad

Confidentiality, Integrity, and Availability are the three things that break up the CIA triad. It may also be referred to as the AIC triad so it isn't confused with the Central Intelligence Agency.

## CONFIDENTIALITY

Confidentiality is the first part of the triad and its main duty is to keep sensitive information private, and to make sure that the data is kept secret. An example may be if there is a spreadsheet or document that is meant for only a specific peoples eyes only, we would want to make sure that only those people see those documents.

## INTEGRITY

Integrity is another main part in cybersecurity, and its main objective is to ensure that the data is trustworthy and not altered in any way. The integrity of the data is only prolonged if the data is reliable, authentic and accurate. For example if you apply inaccurate information on a website, and other organizations go to use that website and see the inaccuracies, they may think your data is untrustworthy. A big part is Integrity and confidentiality in this triad, but these two are useless without Availability.

AVAILABILITY

Availability is how your information gets out there for others to see. That being said, these companies must have functioning networks and systems at all times for those in the organization and customers. An example of poor availability is if there is a power outage and there is no backup plan to get systems back up quickly, that availability is gone.

AUTHORIZATION VS AUTHENTICATION

Authorization and Authentication are the same in some ways, but also they are different in the cybersecurity world. Authentication is a process of confirming that you are who you say you are. An example of this could be a government or company provided ID that shows you are valid to walk into this organization. Authorization is essentially giving permission to see sensitive information/data, but you aren't given authorization without authentication. An example could be a senior manager giving you authorization to look at certain spreadsheets or documents.

CONCLUSION

The CIA triad is very important to know in any cyber security job. These three skills lay down a foundation for your data systems and are extremely important that these are talked about and kept up to date.

Works Cited

"What Is the CIA Triad and Why Is It Important?" *Fortinet*,

https://www.fortinet.com/resources/cyberglossary/cia-triad