

Write-up – The CIA Triad

The CIA Triad is the three main principles of security, it stands for Confidentiality, Integrity, and Availability. Confidentiality makes sure the information is only available to authorized people. An example of this is “those who work with an organization’s finances should be able to access the spreadsheets, bank accounts, and other information related to the flow of money. However, the vast majority of other employees—and perhaps even certain executives—may not be granted access” (Fortinet, 2025). Integrity focuses on that data is accurate and not altered. Then Availability means that the data is accessible when needed.

While authentication and authorization are similar, they are not the same. Authentication is verifying a user’s identity and making sure they are who they said they are. Sometimes passwords are used for authentication but there are other ways as well like biometrics or finger printing. Authorization determines what data the user can access. An example of authorization is when logging into a bank you get to see your information only, while when a bank employee logs in, they get to see everybody’s.

Works Cited

Chai, W. (2022). What is the CIA Triad? Definition,. *TechTarget*, 1-7.

<https://drive.google.com/file/d/1898r4pGpKHN6bmKcwIxpDpVZpCC6Moy8l/view>

Fortinet. (2025). What is the CIA Triad? *Fortinet*.

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

