

Taylor Ball
Profesor Yalpi
CYSE200T 22332
September 16, 2023

The CIA Triad

In this paper, I will be using the article “*What is the CIA Triad? Definition, Explanation, Examples,*” by Wesley Chai to bring you different definitions of the CIA Triad. You will find the definitions of the CIA Triad and what it is and how it can help people around the world. You will learn the difference between Authentication and Authorization. Examples will be given to insure that you understand what it does and how it helps.

The CIA Triad is short for Confidentiality, Integrity, and Availability. The CIA Triad is a model designed to guide policies for information security within an organization. (Chai) The CIA can be broken down to the three key concepts. Confidentiality is basically the equivalent of privacy. Measures are designed to prevent sensitive information from unauthorized access attempts. (Chai) Integrity is the consistent and trustworthiness of data for a long time. The data that is given can not be changed or altered. Availability means that the information that was given is always accessible for authorized users. The CIA Triad is important because it can guide the development of security policies for organizations. Some examples of the CIA Triad are User Ids and passwords, user access controls, and firewalls.

The definition of authentication is the process of determining whether someone or something is, in fact, who or what it says it is. (Shacklett) Some examples of authentication are user IDs and passwords, biometric signature, or just a simple personal question the user has to answer. Authentication is important to cybersecurity because it helps an organization keep their network secure by only letting authorized users to gain access to the organization's protected resources. Authorization determines the level and type of access to resources that a user has. (Schwarz) Some examples that use authorization are mobile access control, attribute-based access control, and graph-based access control. Authorization is important to cybersecurity because it represents defense in depth. Authentication and authorization are often used interchangeably but there are some important differences between them. Authentication is a way for users to verify they are who they say they are. While authorization is when someone grants access to authenticated users to see.

In conclusion, the CIA Triad can be split up into different parts which include confidentiality, integrity, and availability. Confidentiality is security, integrity is constant, and availability is being able to access something at all times. Authentication is when the user has to verify they are allowed to access the resources. Authorization is when access is granted to the

user. Authentication and authorization help each other, but there are many differences between the two.

Works Cited

Chai, Wesley. *What is the CIA Triad? Definition, Explanation, Examples*. 2022,

<https://drive.google.com/file/d/1898r4pGpKHN6bmKcwIxDVZpCC6Moy8l/view>.

Schwarz, Lisa. *What is Authorization? Definition & Examples*. 2022,

<https://www.netsuite.com/portal/resource/articles/erp/authorization.shtml>.

Shacklett, Mary E. *authentication*. 2021,

<https://www.techtarget.com/searchsecurity/definition/authentication>.