Security Engineer

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# 1 - Introduction into Defensive IT and Information Security Concept

* **Explain the concept of CIA in your own words.**

The CIA security triad is a model used to determine the level of security within an organization. The three functions of CIA are:

Chart, diagram

Description automatically generated

1. **Confidentiality**

Confidentiality is the way the system ensures that only the authorized person(s) or system can view or change the data. Confidentiality can be achieved through methods such as IDs or passwords.

1. **Integrity**

Integrity is the way the system makes sure that the information or data is accurate and can be trusted. Data encryption and hashing can ensure system integrity.

1. **Availability**

Availability means that the data and information are available whenever required. Software upgrades and network optimization can help achieving availability.

Resources:

* <https://www.deepwatch.com/blog/cia-in-cybersecurity/>
* <https://flank.org/faqs/what-is-the-concept-of-cia>
* <https://www.bmc.com/blogs/cia-security-triad/>
* <https://www.techopedia.com/definition/25830/cia-triad-of-information-security>