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### The CIA triad

BLUF: The CIA triad which stands for Confidentiality, Integrity, and Availability, is a model designed to guide policies for information security within an organization (Chai, 2022). The three parts of the CIA triad work in relation to each other in order to maintain a safe, reliable, and trustworthy environment.

Confidentiality relates to privacy and the protection of sensitive information from outsiders. Some methods of protecting the confidentiality of data include implementing 2 factor authentication, encryption, and physical security like locks on the doors of data rooms.

Integrity relates to the trustworthiness of the data. Integrity ensures that the data was not altered by an unauthorized person and that what's being presented is accurate. Some measures that organizations could put in place include file permissions and user access controls. They could also implement digital signatures to trace the events done on a network back to an individual.

Availability ensures that information is available and accessible to authorized people when needed. Maintaining the availability of information includes providing reliable access, maintaining hardware to prevent disruptions, implementing disaster recovery plans to make sure that users are still able to access needed information, and creating backups and putting in safeguard to prevent data loss.

Conclusion, The CIA triad is one of the most important frameworks of Cybersecurity ensuring data privacy, accurate data, and accessible information in order for an organization to safely conduct business.