

# CISSP - Study Guide Notes

## Chapter 1: Security Governance Through Principles and Policies.

### CIA Triad: Confidentiality, Integrity and availability

- Primary goals and objectives of security are contained within the CIA triad



- Security solutions should address each of these tenants.
- Vulnerabilities and risks are evaluated based on the threat they pose against these principles.
- Resources are limited, so you have to prioritise security needs according to this triad.
- **Confidentiality:**
  - A high level of assurance that data, objects, or resources are restricted from unauthorised subjects. Prevents unauthorised disclosure.
  - Confidentiality while in storage, process, and in transit.
  - Attacks e.g., stealing password files, social engineering, shoulder surfing, eavesdropping, etc.
  - Can be intentional and directed, or a result of human error/oversight.
  - Countermeasures: encryption, network traffic padding, access control, authentication procedures, data classification and personnel training.
  - Considerations of confidentiality include:
    - Sensitivity - how sensitive is the data?
    - Discretion - An operator's decision to control disclosure
    - Criticality - is the information mission critical. If yes, more need to maintain confidentiality.
    - Concealment -
    - Secrecy
    - Privacy
    - Seclusion - storing something in an out-of-the-way location.
    - Isolation - preventing co-mingling of information.
- **Integrity**

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**Richard Bailey**



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