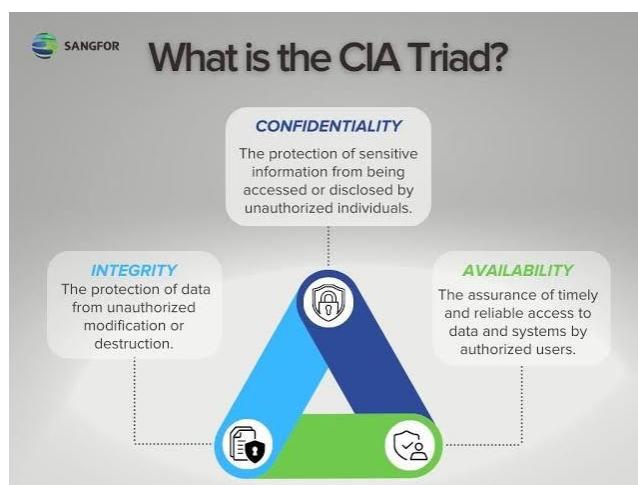


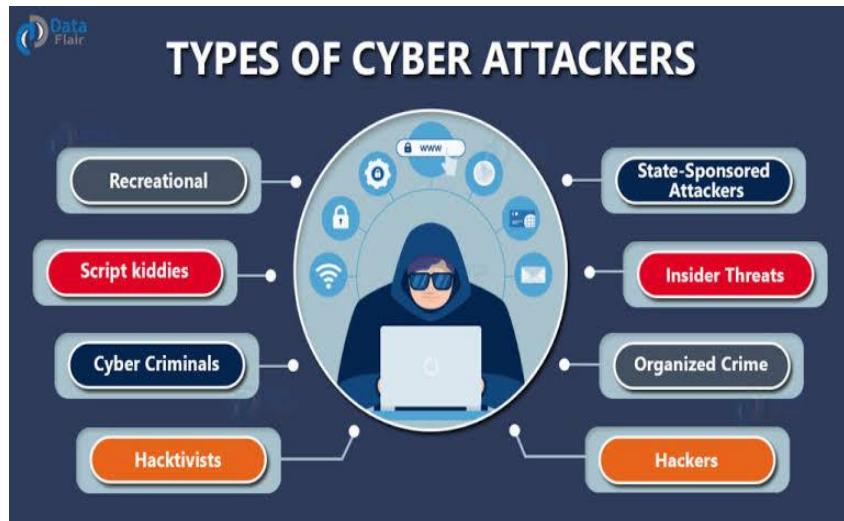
## **Section A : Th CIA Triad**

- **Confidentiality** : Preventing unauthorized disclosure of information(e.g., using end-to-end encryption in WhatsApp so only the sender and receiver can read messages ).
- 
- **Integrity** : Ensuring data is not modified by unauthorized parties(e.g., a banking app ensuring the “recipient” field of a write transfer isn’t changed mid-transit).
- 
- **Availability**: Ensuring systems are up and running when needed (e.g., an email server staying online during business hours).



## **Section B: Attackers & Attack Surfaces**

- **Attacker Types**: Include Script Kiddies (novices), Insiders (disgruntled employees), Hacktivists (socially motivated), and Nation-State Actors (government-backed).
- **Attack Surfaces**: Identify where attacks happen, such as Web Applications, Mobile Apps, APIs, Networks, and Cloud Infrastructure.



### ***Section C: Data Flow Analysis***

- **The Flow:** User → Application → Server → Database.
- **Vulnerability Points:** Attacks can happen at the User level (phishing), Network level (man-in-the-middle), or Database level (SQL injection).

