gini minds

INFORMATION SECURITY

PRIMARY PRINCIPLES AND PROTECTION GOALS

Information security is a set of practices designed to keep personal data secure from preventing unauthorized access, disruption, modification, alteration during storing or transmitting from one place to another.

Information Security is a growing and evolving field that covers a wide range of fields, from network and infrastructure security to testing and auditing.

Threats can vary from software attacks and sabotage to stealing intellectual property, identity theft, equipment or information theft, and extortion.

Here are some practical steps you can take today to tighten up your data security.

1. Back up your data frequently
2. Use strong passwords & do not share passwords
3. Take care when working remotely
4. Be wary of suspicious emails
5. Install anti-virus and malware protection

PRIMARY
PRINCIPLES &
PROTECTION
GOALS

Integrety

Confidentiality

Availability

1. **Confidentiality:** You need to be able to identify who is trying to access data and block those without authorization. Passwords, encryption, authentication, and defense against penetration attacks are all techniques designed to ensure confidentiality.

2. **Integrity:** Maintaining data in its correct state and preventing it from being modified, either by accident or maliciously.

3. **Availability:** You need to make sure that your data cannot be accessed by unauthorized users and be accessed only by authorized users with proper authentication.