

Completed:- The CIA Triad – TryHackMe

I've successfully completed the *CIA Triad* room on TryHackMe, strengthening my understanding of one of the most fundamental concepts in cybersecurity.

The **CIA Triad** represents the three core principles of information security:-

- 1) **Confidentiality** – Ensuring sensitive information is accessible only to authorized users.
Examples:- Encryption, Multi-Factor Authentication (MFA), Access Controls.
- 2) **Integrity** – Maintaining the accuracy and trustworthiness of data.
Examples:- Hashing, Digital Signatures, File Integrity Monitoring.
- 3) **Availability** – Ensuring systems and data are available when needed.
Examples:- Redundancy, Backups, Disaster Recovery Planning, DDoS protection.

Key Takeaways:-

- 1) Security is not just about preventing attacks, but balancing confidentiality, integrity, and availability.
- 2) Real-world security incidents often occur when one of these principles is compromised.
- 3) Understanding the CIA Triad is essential for SOC analysts, security engineers, and ethical hackers.

This room strengthened my foundation in cybersecurity concepts and helped me connect theory with practical scenarios.

Continuing my journey in cybersecurity — one lab at a time!

