

CompTIA Security+ Study Guide:

Use case: A goal that an organization wants to achieve.

- **Elements** in a use case: Actor, Precondition, Trigger, Postcondition, Normal Flow, Alternative Flow

Ensure Confidentiality:

Confidentiality ensures the prevention of unauthorized disclosure of data.

Ways to ensure confidentiality:

Encryption: Scrambles data to make it unreadable by unauthorized personnel.

Access Controls: Use these to grant and restrict access.

1. Identification: Username (identity)
2. Authentication: Password (proving identity)
3. Authorization: Permissions (what you can do)

Best way to protect confidentiality is to encrypt the data

Provide Integrity:

Integrity provides assurance that data has not changed (no modification, tampering, or corruption).

However, there are times when unintended or unauthorized changes occur. Those can be from:

- Malware
- Unauthorized Users
- System and Human errors

Hashing:

- techniques used to enforce integrity
- various versions including Secure Hash Algorithm (SHA) and MD5

A hash is a number created by executing a hashing algorithm against data (such as a file or message).

- It creates a fixed length, irreversible output.
- If data never changes, the output remains the same.
- Variation in data does not tell you what changes the message. It only tells you that it has changed.

Increase Availability:

Availability indicates that data and services are available when needed.

- Some organizations 8-5, Monday to Friday; Others 24/7

Net Plus Study Guide

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Rufi**



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