# 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:

- Madvvare
- Unauthorized Users
- System and Human errors

#### Hashing:

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

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.

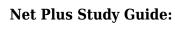
#### Increase Availability:

Availability indicates that data and services are available when needed.

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

# **Net Plus Study Guide**

Mark Dye, Richard McDonald, Antoon Rufi



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