



Information Security Fundamentals

Lecture 1

Information Assets

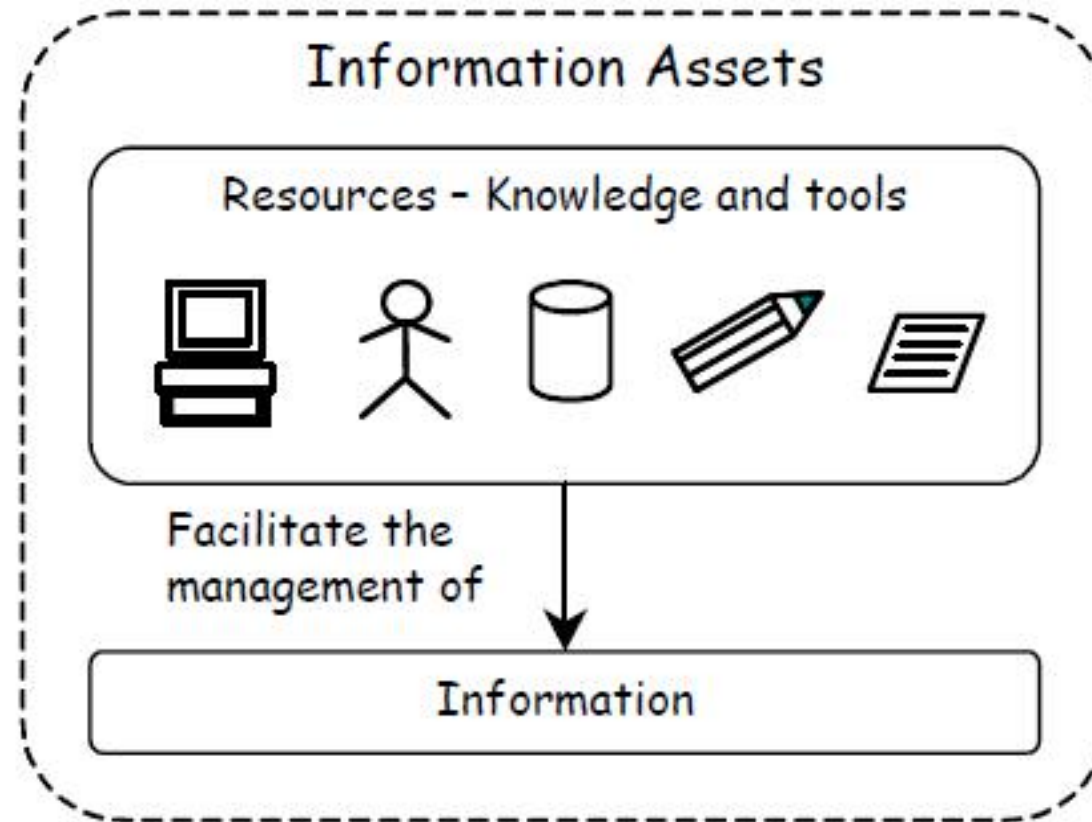


Figure 1: Information assets consist of information as well as resources to facilitate the management of information

Definition

Information technology (IT) is a concept that refers to digital technology, i.e. hard- and software for creating, collecting, processing, storing, transmitting, presenting and duplicating information. The information may be in the shape of e.g. sound, text, image or video, and IT mean hence a merging of the traditional areas of computers, telecom and media.

Resources for manage information

Manual resources

Tools

Non-electronics
tools

Electronic tools

Analog tools

Digital tools
(IT)

Figure 2: Classification of resources for information management

CIA Triad Concepts

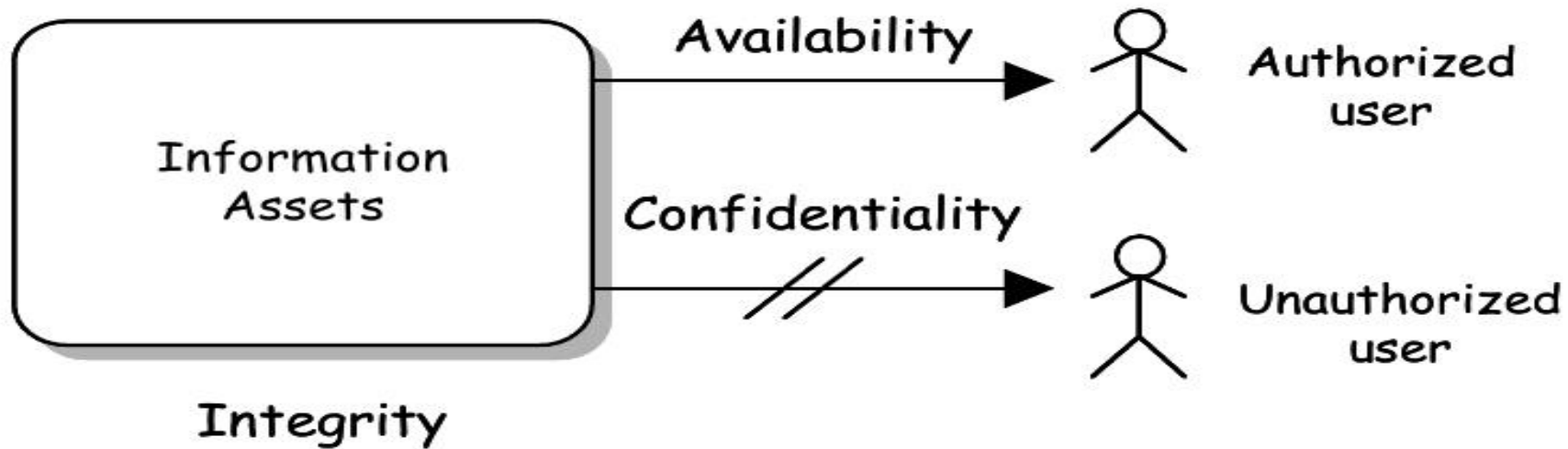
Confidentiality: Prevention of unauthorized disclosure or use of information assets

Integrity: Prevention of unauthorized modification of information assets

Availability: Ensuring of authorized access of information assets when required

Objective

This way information and resources stay confidential, unmodified and available.

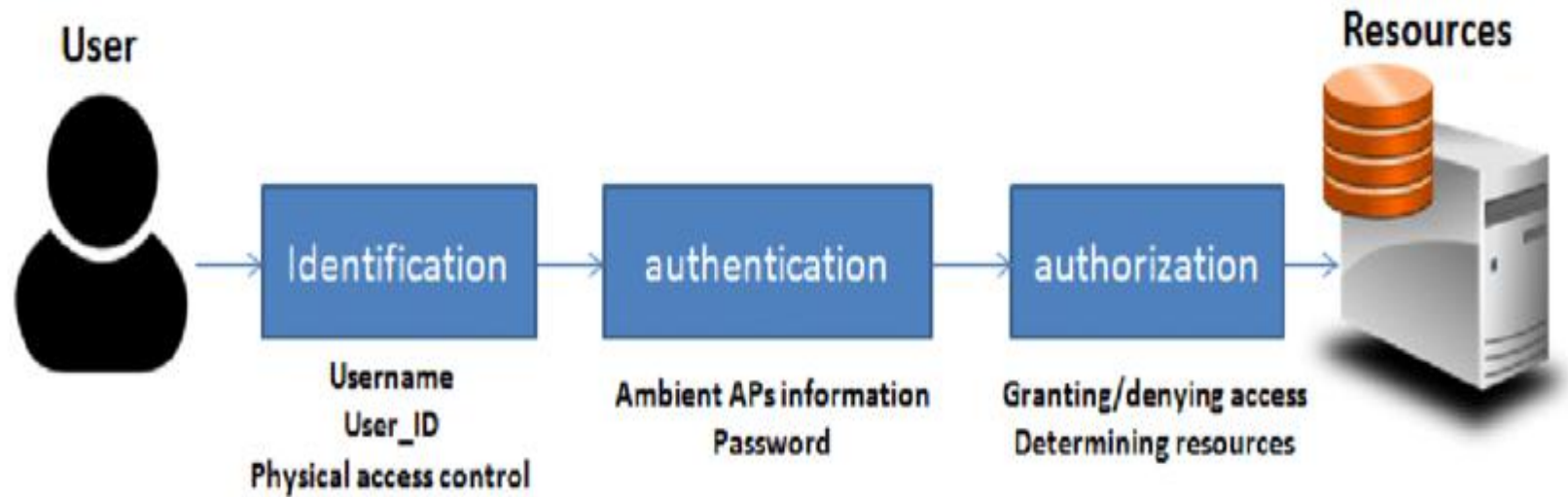


Methods

Identification

Authentication

Authorization



Identification

Scope,

Locality,

Uniqueness of IDs

Example: Email xyz@yahoo.co.in

Authentication

three methods of authentication are

- what you know,
- what you have, or
- what you are

THANK YOU



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