TALENTO TECH

REGIÓN 3
CAUCA – NARIÑO
LESSON 1 –UNIT 1

TIC

UTP | faceIT
Universidad Tecnológica de Pereira

# UNIT 1: Introduction to Cybersecurity and Fundamental Principles

**1)Idiom of the day "LOCK AND KEY":**
The phrase "lock and key" describes something that is extremely secure. In the realm of computer security, it can be applied to heavily protected systems that are virtually impossible to breach.For instance, a server with advanced access controls and encryption would be considered "locked and key."

**2)WARM-UP ACTIVITY: "Guess the Cyber Threat"**

Objective: Introduce the topic of cybersecurity by discussing simple examples of cyber threats, encouraging curiosity and active participation.

Materials needed: A virtual or physical board for brainstorming ideas

Instructions:

1. Display this question on the screen:
2. "What do you think happens when cybersecurity fails?"
3. Ask studentsto quickly share their thoughtson the consequences of poor cybersecurity (one phrase or keyword per student).
4. Summarize theirresponses, highlighting key points like data theft,unauthorized access, and loss of information.

Main activity:

1. Introduce "Guess the Cyber Threat": describe or show brief scenariosrelated to cyber threats and ask students to guess the type of threat or cybersecurity issue being described.

Example scenarios:

- "Someone tricks you into sharing your password by pretending to be your bank."
- "A program locks your files and demands payment to unlock them."
- "A hacker uses a weak password to access a private account."

# 3) Socialize the following termsrelated to cybersecurity

**cyberattack**: An attempt by <u>hackers</u> to damage or destroy a computer network or system.

**cybercrime**: Any criminal activitythat involves a computer, networkor networked device.

**cybercriminal**: A person who <u>engages</u> in criminal activityby means of computers or the internet.

**hacker**: A person who uses computers to gain unauthorized access to data.

**cybersecurity**: The practiceof protecting systems,networks, and programsfrom digital attacks.

IT assets: Any hardware, software, or technology resources that a business owns or uses.

**threat**: A person or thing likely to cause damage or danger.

**risk**: A situation involving exposure to danger.

**risk**: A situation involving exposure to danger.