

## ***Common Threats to Devices***

### **1.) Attacks with Denial-of-Service (DoS)**

Through Denial-of-Service attacks, attackers can overload devices with traffic, making them unavailable and interfering with regular operations.

### **2.) Zero-Day Exploits**

Before developers can release patches or updates, devices are susceptible to attacks that take advantage of undiscovered software vulnerabilities (zero-day exploits).

### **3.) Physical Loss or Theft**

Devices are vulnerable to physical theft or loss, which could reveal private data to uninvited parties and call for strong physical security measures.

### **4.) Spyware and malware**

Malicious software, such as spyware and malware, can compromise device security and privacy and is frequently installed without the user's knowledge or consent.

### **5.) Bot networks**

Devices have the potential to join botnets—a network of compromised systems—that are managed by hackers and used to carry out malicious tasks like orchestrating coordinated attacks.

## ***Common Threats to Local Access Networks***

### **1.) Unprotected Wireless Networks**

It is imperative to utilize secure connections to protect data, as connecting to unprotected Wi-Fi networks leaves devices vulnerable to possible eavesdropping and illegal access.

### **2.) Interception of Data**

Threat actors can intercept and steal data while it is in transit, jeopardizing the privacy of sensitive data as it moves between networks and devices.

### **3.) Misconfigured Networks**

Vulnerabilities brought about by improperly configured network settings may result in security breaches.

#### **4.) Eavesdropping**

unapproved network communication interception that compromises private data.

#### **5.) Unauthorized Entry**

Threat actors entering local networks without authorization, which could result in data breaches or system manipulation.

### ***Common Threats to Cloud Domains***

#### **1.) Lack of Compliance**

noncompliance with industry or regulatory compliance standards, putting data security and legal ramifications at danger.

#### **2.) Insecure APIs**

Cloud application programming interface (API) vulnerabilities could be used to gain unauthorized access or manipulate data.

#### **3.) Insufficient Identity and Access Management**

Unauthorized people may obtain unauthorized permissions as a result of poorly maintained user access controls.

#### **4.) Outages in Cloud Services**

Access to vital apps and data, as well as business operations, may be impacted by disruptions in cloud services.

#### **5.) Shared Technology Vulnerabilities**

When numerous users share the same underlying cloud infrastructure, there is a risk because vulnerabilities could impact numerous entities.

## ***Common Threats to Physical Facilities***

### **1.) Natural Disasters**

Catastrophes such as earthquakes, fires, or floods can harm buildings, interfering with business operations and possibly resulting in data loss.

### **2.) Social Engineering Attacks**

manipulation of people to enter buildings without authorization, frequently by taking advantage of weaknesses in people.

### **3.) Theft or Loss of Devices**

Information security is directly threatened when devices holding sensitive data are physically stolen or lost.

### **4.) Unauthorized Access to Facilities**

Sensitive data and equipment can be compromised by intruders who physically enter buildings.

### **5.) Supply Chain Risks**

Inadequate security in the supply chain may result in vulnerabilities being introduced into physical facilities.

## ***Laws that prohibit cybercrime in the Philippines***

### **1.) Republic Act No. 10175 (Cybercrime Prevention Act of 2012)**

This law, which was passed on September 12, 2012, defines and addresses cybercrime and offers procedures for its investigation, prevention, and repression.

### **2.) Anti-Child Pornography Act of 2009 (Republic Act No. 9775)**

This law, which focuses on crimes committed online, makes it illegal to create, possess, or distribute child pornography and imposes fines on offenders.

### **3.) Data Privacy Act of 2012 (Republic Act No. 10173)**

This act, which prioritizes data protection, ensures the security and privacy of people's data by instituting measures to prevent unauthorized access to personal information.

### **4.) Electronic Commerce Act of 2000 (Republic Act No. 8792)**

This law addresses offenses related to computers, such as hacking and unauthorized access to computer systems, while also promoting e-commerce.

#### **5.) Cybersecurity Act of 2012 (Republic Act No. 10844)**

In order to provide a secure cyber environment and protect the country's vital information infrastructure from cyber threats, this law establishes the National Cybersecurity Plan.

### ***Cyber Laws & Liabilities in the US (Civil, Criminal, & Regulatory)***

#### **1.) Gramm-Leach-Bliley Act (GLBA) - Regulatory**

A regulatory law known as GLBA requires financial institutions to put security measures in place and protect the privacy of their consumers.

#### **2.) Health Insurance Portability and Accountability Act (HIPAA) - Regulatory**

HIPAA is a set of regulations that governs how electronic health information is protected, protecting patient privacy and security in the healthcare industry.

#### **3.) Federal Trade Commission (FTC) Act - Regulatory**

The FTC Act gives the Federal Trade Commission the authority to impose rules and regulations against unfair or deceptive cybersecurity practices.

#### **4.) Electronic Communications Privacy Act (ECPA) - Civil**

By controlling electronic communication interception and safeguarding electronic communication privacy, ECPA addresses civil concerns.

#### **5.) Computer Fraud and Abuse Act (CFAA) - Criminal**

The CyberFinancial Access Act (CFAA) makes hacking and data theft illegal and penalizes unauthorized access to computer systems.