

# Information Security & Cybersecurity

Prepared by: PalCyberSec Team



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# 01

## Assets & Identities



# Assets & Identities



## Asset

Resource that has a value  
Data/Info/Laptop



## Identity

Something you're  
identified with  
Name/ID/characteristic

02

## Information Security & Cybersecurity

# Information Security

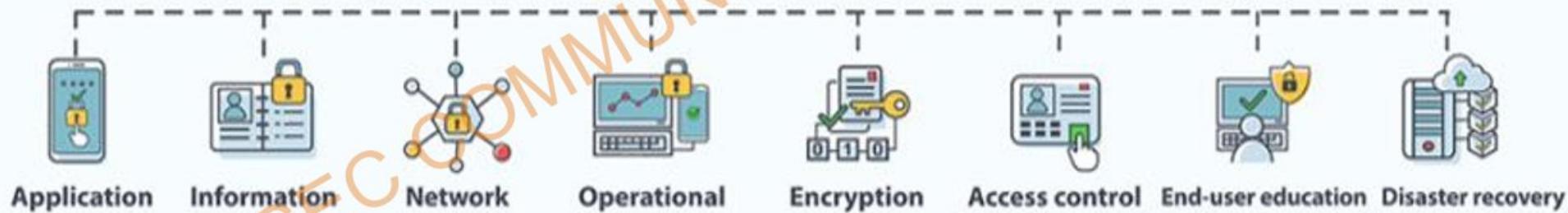
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# 5 Pillars of Security Assurance



# CYBER SECURITY



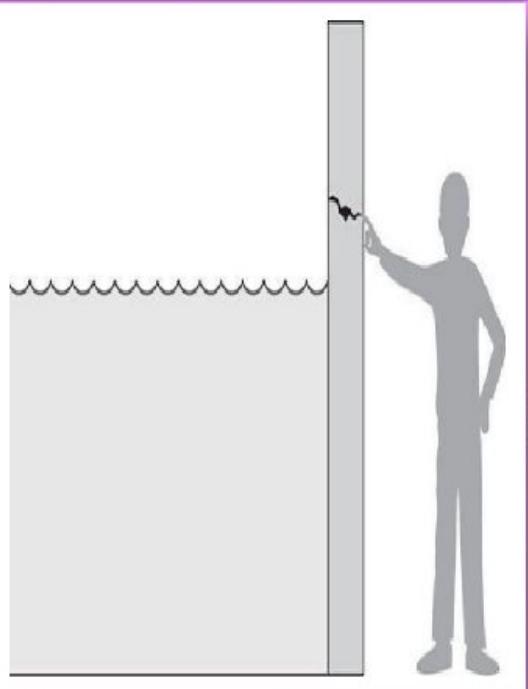
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# 03

Vulnerability – Risk – Threat-Exploit

# Vulnerability – Risk – Threat-Exploit

<b>Vulnerability</b>	Weakness in the system that may cause harm
<b>Risk</b>	The potential danger or harm arising from unauthorized access, use, disclosure, disruption, modification, or destruction of digital information
<b>Threat</b>	A threat is a set of circumstances that could cause harm
<b>Exploit</b>	Take advantage of a flaw/vulnerability



# 04

## Authentication & Authorization

# Identification – Authentication - Authorization

<b>Identification</b>	The act of asserting who a person is.
<b>Authentication</b>	<p>The act of proving that asserted identity: that the person is who she says she is.</p> <p>Authentication is based on something you know, are, or have</p>
<b>Authorization</b>	The process of validation & giving the user permission to access a specific resource or function

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# 05

## Importance of Cyber Security

# Importance of Cyber Security

- Organizations collect, process and store unprecedented amounts of data.
- That data can be sensitive information.
- Need to protect against loss, modification or unauthorized access.
- Attacks and techniques are evolving daily basis.

# 06

## Challenges of Cyber Security

# Challenges of Cyber Security

- Attacks and techniques are evolving daily basis.
- We are moving towards digital life
- Business considerations
- High Cost
- Usability

# 07

## Branches



# Importance of Cyber Security

- Network security
- Application Security
- Mobile Security
- Malware Analysis
- Risk Audit/Management
- Digital Forensics.
- Penetration Testing
- Network security analyst
- Security analyst
- OS security
- Encryption/Decryption Expert

# 08

## University VS. Market

# University VS. Market

- Life isn't fair at all.
- Business rules.
- The target is always “money”.
- You need to obey.
- most forget their goals.

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# 09

## Wrong Concepts



# Wrong Concepts

- Hackers usually attack politicians
- Why should I worry
- I will never be a target for hackers
- They are looking for documents or money
- I use Linux, I will not get hacked

# 10

## Hacking



# Hacking

- Finding Vulnerabilities in systems
  - Exploiting the vulnerabilities
    - Unauthorized access, data leakage .. etc

# 11

## Motive



# Motive



# 12

## Ethical Hacking/PT



# Ethical Hacking/PT

- Ethical Hacker is still a hacker
- Works to find Vulnerabilities and to help organizations
- Can be sued in some cases (no permissions)
- Penetration Tester is a professional Expert
- Has a contract & a Permission
- Has to professionally report not only the bugs/Vulns. But also his work steps, progress, and methodology



THANKS

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