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Introduction to Cybersecurity and Responsible Digital Citizenship

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Content

- Cyber Security Myths vs Truths
- Basic Cybersecurity concepts
- Prevalent Cyber Threats and Attacks
- Impacts of Cyber Attacks on Businesses
- Responsible Use of Digital

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Cyber Security Myths vs Truths

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Everyone who uses technology is at risk of being a victim of Cybercrime

I don’t have plenty money, I am not famous, It’s unlikely that I will ever experience a cyber attack

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This is as good as fetching water with a basket or going to sleep with your back door left wide open

Having a free or cracked anti-virus software is enough to protect me

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Cybersecurity is everyone's responsibility

Cyber security is the responsibility of only tech people.

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This is risky behaviour and could lead to your account being hacked

It is okay to use my birthday, pet name or even my name as my birthday

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You'll make it really easy for cybercriminals to compromise multiple accounts that belong to you

It is okay to use the same password across all my online accounts

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I use a strong password, that should be enough to protect me

Password is often not enough; you need to turn on multi-factor authentication everywhere possible

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Cybercriminals are getting better at tricking people who are not aware of their tactics. Being Cyber aware, keeps you a step ahead

I am too street smart for any online scammer to defraud me, I don’t need to learn about cybersecurity

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www.haveibeenpwned.com

https://www.f-secure.com/en/identity-theft-checker

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Basic Cybersecurity Concepts

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Cybersecurity as a Business Enabler

Cybersecurity refers to the application of technologies, processes and controls to protect systems, networks, programs, devices and data from cyber attacks.

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Cyber Attack

A cyber attack is any attempt to gain unauthorized access to a computer, computing system or computer network with the intent to cause damage.

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Data Breach

Data breaches are security events where information is accessed, stolen, and used by a cybercriminal without authorization.

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Cyber Threat

A cyber or cybersecurity threat is a harmful act that seeks to damage data, steal data, or disrupt digital life in general.

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Cyber Crime

Cybercrime is defined as a crime in which a computer is used as a tool to commit an offence. Criminals who perform these illegal activities are often referred to as **cyber criminals.**

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Prevalent Cyber Threats and Attacks

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Top 5 Cybersecurity Threats in Africa

Online Scams

Ransomware

Botnets

Business Email Compromise

Digital Extortion

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About Online Scams

A cyber or cybersecurity threat is a harmful act that seeks to damage data, steal data, or disrupt digital life in general.

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Cyber Threats : Online Scams

Phishing/Smishing/Vishing, debit/credit card theft, identity theft, advance payment fraud, fraud, investment scams, cryptocurrency scams, etc.

Attackers use of deceptive means that include stirring emotions and manipulating people into taking harmful decisions and divulging sensitive information. What do they want? Your identity, money, sensitive information and online accounts.

Cyber Threats : Digital Extortion

Blackmailing + Sextortion + False Information

False claims or proof of stolen personal data or files, for which the victim is then asked to pay in exchange for recovering the data or not leaking it online.

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Cyber Threats : Business Email Compromise

Cybercriminals typically compromise or spoof a legitimate email account to send fraudulent emails requesting transfer of funds or sensitive data while posing as the legitimate owner of the email account.

Cybercriminals usually target high-level executives working in finance or involved with wire transfer payments. Bogus Invoices, CEO Fraud, Account Compromise.

Cyber Threats : Botnets

A Botnet is a network of hijacked computers and devices infected with harmful code and remotely controlled by a hacker.

Botnets can also be an entry point for ransomware attacks. Any machine that can connect to the Internet can be compromised and turned into a device in a botnet, such as computers, mobile devices, internet infrastructure hardware such as network routers, and increasingly, Internet-of-Things (IoT) devices such as smart home devices.

Cyber Threats : Ransomware

Ransomware is a form of malware which encrypts victim data or locks down systems, disrupting the operations of victim organizations by rendering their data and systems inaccessible.

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Impacts of Cyber Attacks on Businesses

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Impacts of Cyber Attacks on Business

A successful cyber attack can impact the entire organization in many ways and on many levels, from minor operational disruption to a total business meltdown. Some of the ways cybercrime can hamper businesses include:

- Financial losses; cost of response and recovery, cost of investigation, cost of loss productivity, lost revenue, legal and PR costs
- Loss of customer's confidential information and crucial business information
- Reputation damage
- Loss of productivity
- Legal liability
- Business Continuity problems

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Impact above the surface

Well-known cyber incident costs

- Customer breach notifications
- Post breach customer protection
- Regulatory compliance (fines)
- Public relations/crisis communications
- Attorney fees and litigation
- Cybersecurity improvements
- Technical investigations

Impact below the surface

Hidden or less visible costs

- Insurance premium increases
- Increased cost to raise debt
- Operational disruption or destruction
- Lost value of customer relationships
- Value of lost contract revenue
- Devaluation of trade name
- Loss of intellectual property (IP)

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Actionable Tips To Protect Yourself

1. Know how to identify scam emails from Legitimate one
2. Backup your files securely online and offline
3. Strengthen your home network and avoid using Public WiFi
4. Use strong passwords
5. Keep software updated especial Windows updates, web browser, etc
6. Use 2-Factor Authentication on your social media and email accounts
7. Install and use a good anti-virus
8. Catch red flags such as unexplained urgency, last minute changes to wire-instructions or established communication channels or refusal to communicate via video calls.
9. Don’t download files, software or apps from shady websites.

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Responsible Use of Digital

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Cybersecurity is everyone’s responsibility

Do you know?

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Responsible Use of Digital

- Secure your secrets (Online security and passwords)
- Share with care and caution
- Be Kind Online
- Don’t fall for fake (Online scams, fake news, etc.)
- When in doubt, verify

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Topic Activity

In your peer learning groups, discuss how a cyber-attack can cause harm to your favorite business in your community.

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