Getting Started with Cybersecurity

Bharathi M – *SSCP, CISSP*

– Image source: internet

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August 07, 2021
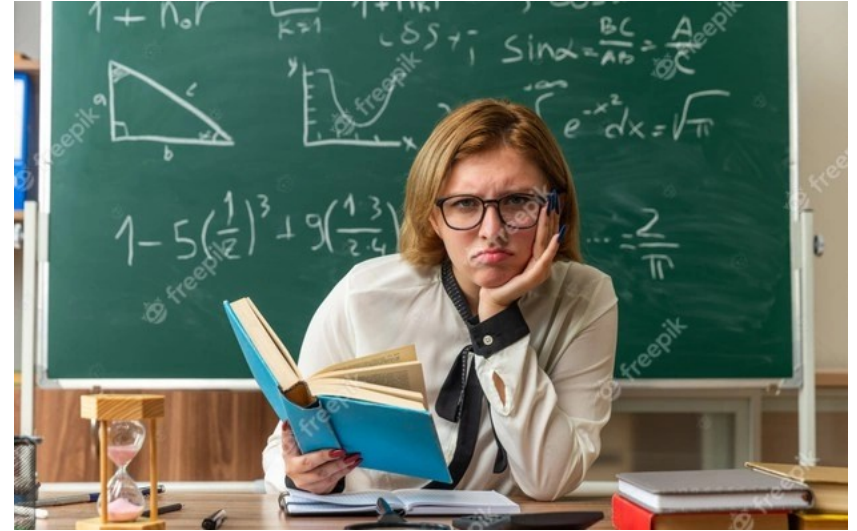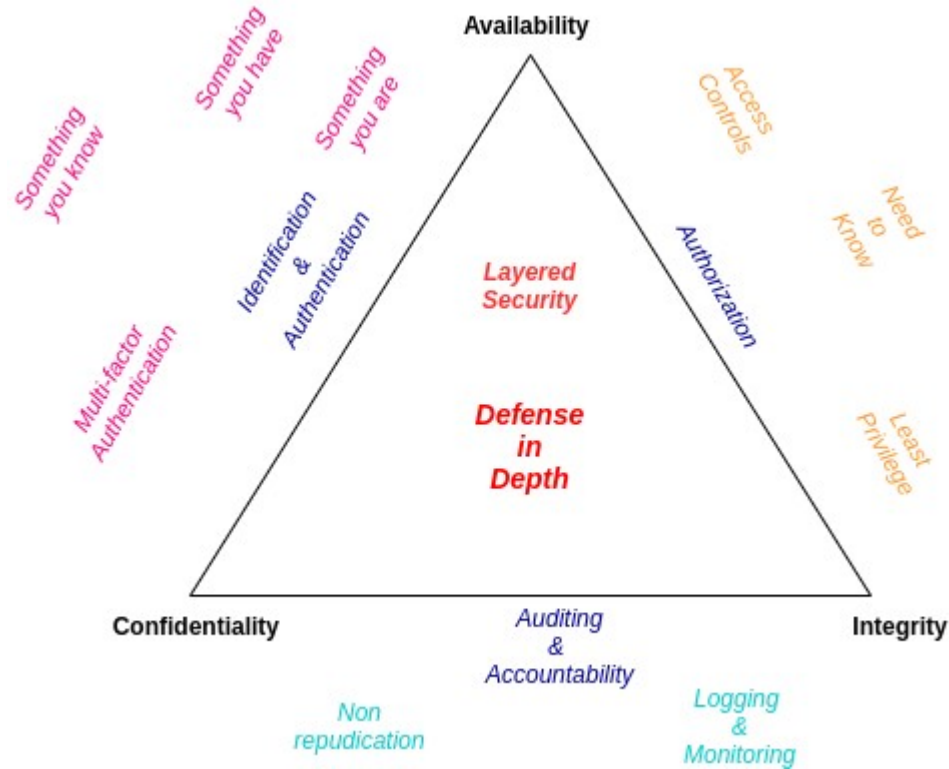
The Importance Of Cybersecurity

"I dream of a digital India where cyber-security becomes an integral part of national security"

Narendra Modi – Prime Minister of India

– Image source: internet

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August 07, 2021

All 3 Billion Yahoo Accounts Were Affected by 2013 Attack

Adobe hack: At least 38 million accounts breached

AdultFriendFinder network hack exposes 412 million accounts

Almost every account password was cracked, thanks to the company's poor security practices. Even "deleted" accounts were found in the breach.

– Image source: internet

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Details On 700 Million LinkedIn Users For Sale On Notorious Hacking Forum

Facebook has suffered yet another data breach, only this time, private information from 533 million accounts have been leaked online. Even the company's founder and CEO Mark Zuckerberg's private credentials are part of the larger leaked data set from 2019.

Sony employees who logged on to their desktops early on Monday morning, November 24, 2014, were greeted with the sound of digital gunfire and the image of an ominous red skeleton under the title "Hacked By #GOP," which stood not for the Grand Old Party, but for a shadowy organization called Guardians of Peace. Below was a message that read, in not very good English, "We've already warned you, and this is just a beginning. We continue till our request be met. We've obtained all your Internal data Including your secrets and top secrets. If you don't obey us, we'll release [that] data." It read like the opening of a bad script for a cyber-thriller.

– Image source: internet

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Russian Hackers Broke Into Federal Agencies, U.S. Officials Suspect

37 government websites hacked till August: Minister

Thirty-seven websites belonging to Central Ministries and State governments were hacked till August, Parliament was told on Wednesday.

"As per the information reported to and tracked by Computer Emergency Response Team (CERT-In), 54 and 37 websites of Central Ministries/Departments and State governments were hacked during 2019 and 2020 respectively," Minister of State for Electronics and IT Sanjay Dhotre told the Lok Sabha.

– Image source: internet

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Cybersecurity Is Important For Everyone

● We need to protect
  - ➢ Back A/C
  - ➢ Aadhaar card, PAN card, Passport, et.,
  - ➢ Marksheets & Certificates
  - ➢ Other PII

● We need to be protected from
  - ➢ Malware
  - ➢ Ransomware
  - ➢ Social Engineering
  - ➢ Phishing, etc.,

PayPal is one of the most popular payment methods. However, that also means it is a magnet for many scammers and hackers. An 82-year-old-woman from Lewisville, NC was a victim of an identity thief. She got an e-mail from a hacker that represented himself as "PayPal" support. He made a similar e-mail account and asked for some personal data.

The woman did not even know that she was a victim of a crime until one ridiculous moment. She received more than $2000 in sex toys that were delivered to her home address. Luckily for her, the scammer forgot to change the address.

– Image source: internet

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My Story – How I Become A Cybersecurity Professional

- **WannaCry ransomware attack**
  - ➢ May 2017
  - ➢ Over the course of just 72 hours, much of the online world was captivated (and held captive) by a novel threat
  - ➢ infected 300,000 computers in 150 countries

– Image source: internet

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Gregg Steinhafel has resigned as Target Corp.'s chairman, president and CEO following the **data breach** late last year that exposed 40 million credit and debit card accounts, along with personal information on 70 million customers.

Equifax CEO Richard Smith Resigns After Backlash Over Massive Data Breach

– Image source: internet

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What is Cybersecurity

●Cybersecurity is the art of protecting networks, devices, and data from unauthorized access or criminal use

– us-cert.cisa.gov

*– Image source: internet*

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Why Cybersecurity Is Important

- Today everything (business and personal life) relies on computers
  - ➢ Communication (e.g., email, smartphones, tablets)
  - ➢ Entertainment (e.g., interactive video games, social media, apps)
  - ➢ Transportation (e.g., navigation systems)
  - ➢ Shopping (e.g., online shopping, credit cards)
  - ➢ Medicine (e.g., medical equipment, medical records), etc.,

– Image source: internet

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Cybersecurity – Inch Deep; Mile Wide

- Cyber Security Analyst
- Cyber Security Consultant
- Cyber Security Architect
- Cyber Security Auditor
- Cyber Security Engineer
- Penetration Testers
- Vulnerability Analysts
- Cyber Security Manager
- Chief Information Security Officer (CISO)

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- *Zero Unemployment*

Cybersecurity Talent Crunch To Create 3.5 Million Unfilled Jobs Globally By 2021

With rising crimes online, India faces acute shortage of cyber security experts

India faced a shortage of 1.5 million cyber security professionals by end of 2020

* 1 Million = 10 Lakhs

– Image source: internet

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- SSCP – https://www.isc2.org/en/Certifications/SSCP
- Security+ – https://www.comptia.org/certifications/security
- CISSP – https://www.isc2.org/en/Certifications/CISSP

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Any Questions?

I don't want to live in a world where every expression of creativity or love or friendship is recorded

– Edward Snowden

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Thank you!

If people are doubting how far you can go, go so far that you can't hear them anymore!!!