CYBER SECURITY

Presented By



Debraj Karmakar

I am pursuing my B. Tech degree in Computer Science & Engineering from JIS College of Engineering, Kalyani, Nadia, West Bengal.









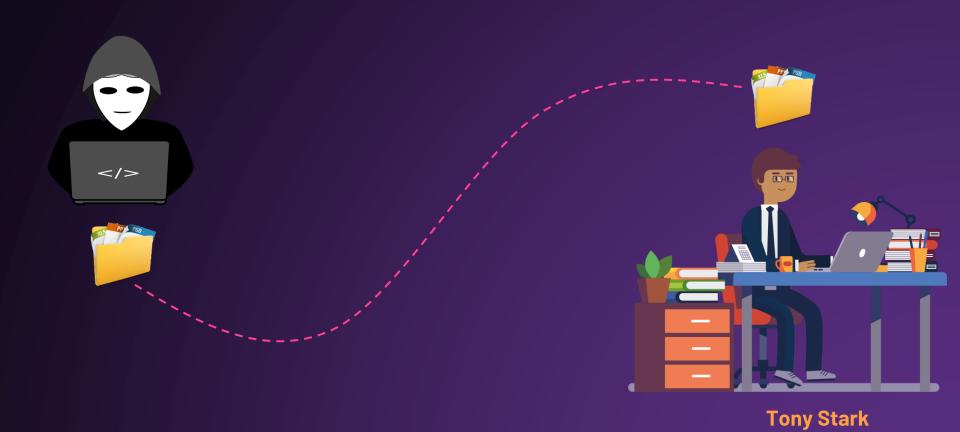




What's in it for you?

- I. What is Cyber Security?
- 2. Why Cyber Security?
- 3. Big Concept CIA
- 4. Cybercrimes | Hackers
- 5. How Cyber Security Work?
- 6. Who is a Cyber Security expert?
- 7. Statistics & Facts about Cyber Security





Cyber Attack



What can happen due to this?





Industrial Espionage



Asking Company for Ransom



Selling the Information to Criminals

What is Cyber — Security



What is Cyber Security

Cyber Security is the technology and process that is designed to protect networks and devices from attack, damage, or unauthorized access.





Protection of your business



Increase productivity





Stops your website from crashing



Protection for your customers or clients

Why Cyber Security



Why Cyber Security

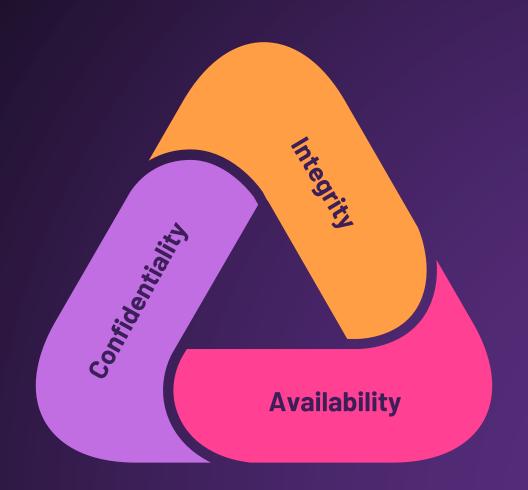
Confidentiality, Integrity, Availability have served as the industry standard for Computer Security since the time of first mainframes.

CIA



Big Concept CIA

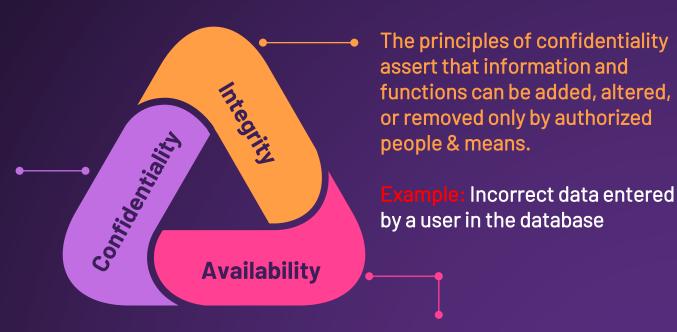




CIA

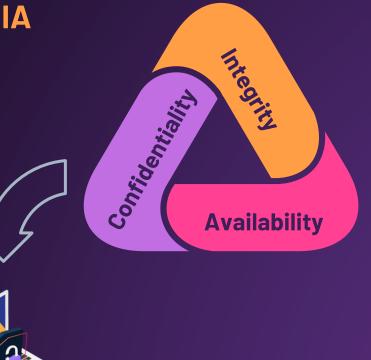
The principles of confidentiality assert that information and functions can be accessed only by authorized parties.

Example: Military Secrets



The principles of availability assets that systems, functions, and data must be available on demand according to agreed-upon parameters based on levels of service.

Threats to CIA







Hacking

Threats to CIA-Cybercrime



Cybercrime are carried out against computers or devices directly to damage or disable the, spread malware, steal secret information, etc.



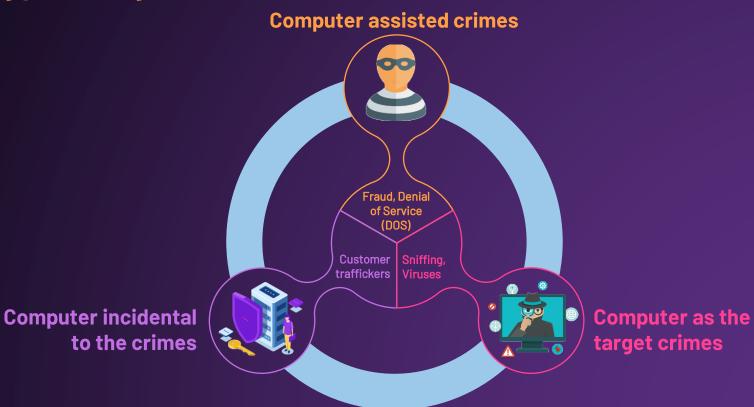
Cybercrime is any criminal activity that involves a computer, network device or a network

Most Cybercrime are carried out in order to generate profit for the Cyber Criminals.

Types of _Cybercrime



Types of Cybercrime



Motives behind Cybercrime



Motives behind Cybercrime



Threats to CIA Integrity Confidentiality **Availability**

Cybercrime

Hacking

Threats to CIA-Hacking



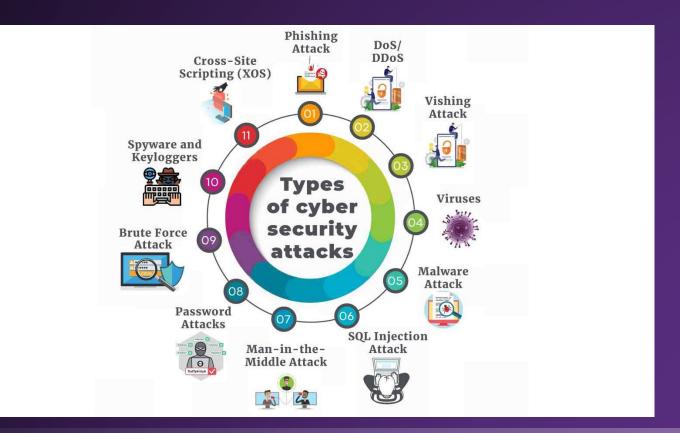
Types of Hackers



Common attacks in Cyber Security



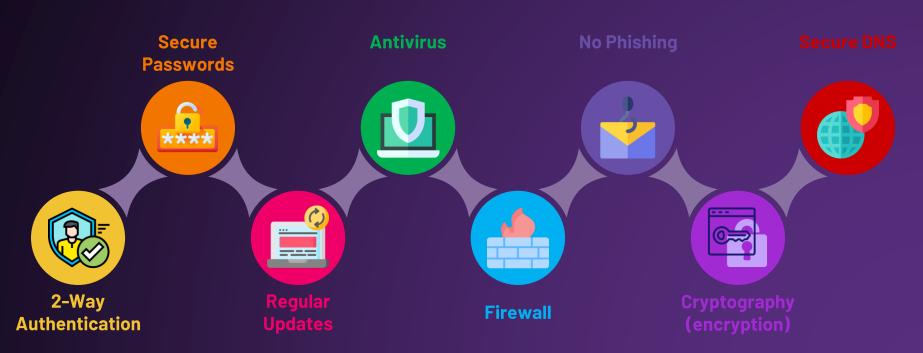
Common attacks in Cyber Security



How Cyber Security Works?



How Cyber Security Works?



Who is Cyber Security expert?



Who is Cyber Security expert?



After they find weakness, they repair and strengthen the areas where an attack may have occurred.

Cyber Security Average by Job

Security Analyst

₹ 486,959



Information Security Analyst

₹ 539,300



Cyber Security Analyst

₹ 578,913



Security Consultant, (Computing / Networking / IT)

₹ 868,697



Technical Consultant



Network Security Engineer

₹ 475,000



Ethical Hacker

₹ 501,529



Chief Information Security Officer

₹ 3,630,335





Security Manager, IT

₹ 1,466,79

Famous names in Cyber Security

1988

1990

1999

2004



Robert T Morris

First Internet Worm



Kevin Lee Poulsen

Hacked telephone lines of KIIS_FM (Los Angeles)



David L Smith

Created Melissa virus



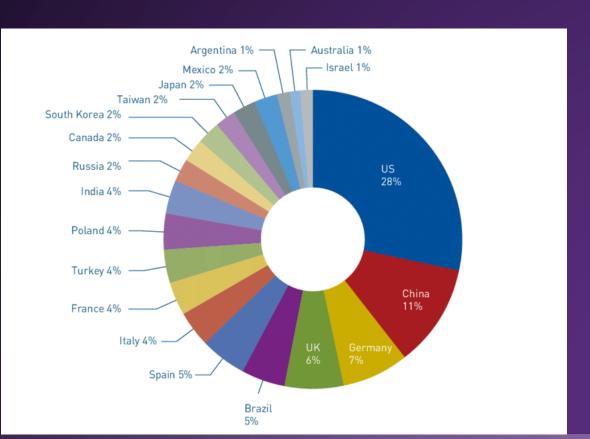
Adam Botbyl

Steal credit card information

Statistics & Facts about Cyber Security



TOP 20-COUNTRIES GENERATING CYBER CRIME



44,546
Number of cyber crimes

Karnataka

State with most cyber crime cases (2019)

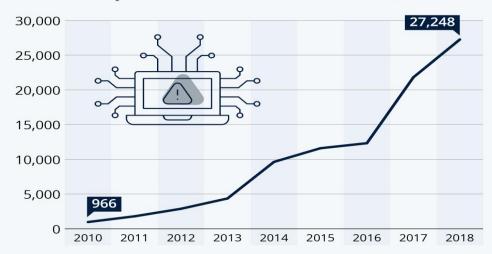
₹ 14,50,91,800

Cost of data breach in 2020

CYBER CRIME Graph

Sharp Increase of Cyber Crime in India During Last Decade

Recorded cyber crime cases in India (2010-2018)



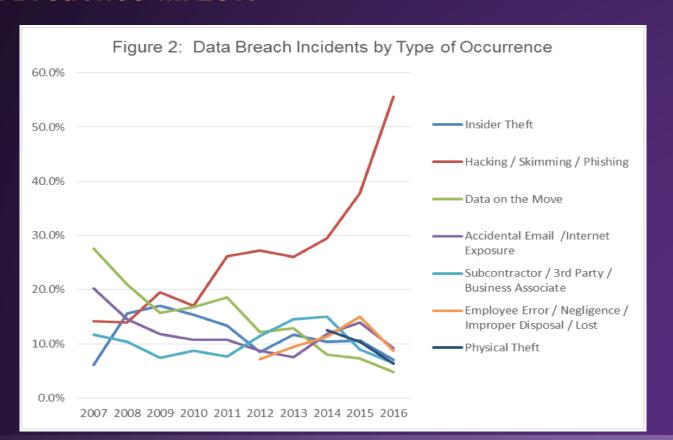
Source: National Crime Records Bureau of India



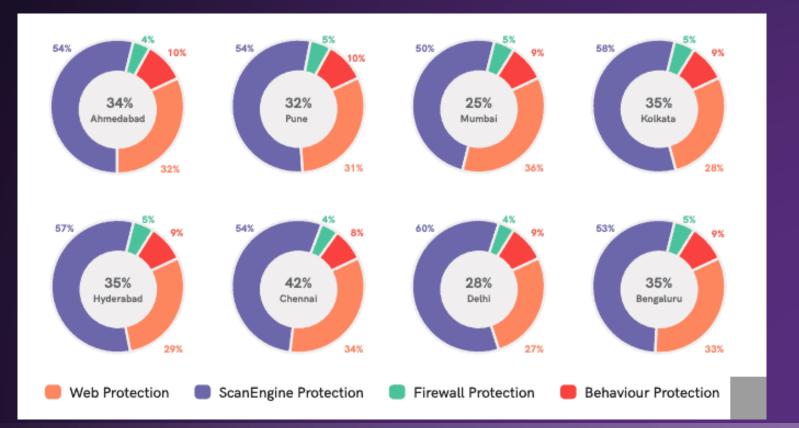




Data Breaches till 2016



Cyber-Attacks in the city during COVID-19



The quieter you become, the more you are able to hear...

- Kali Linux

THANKS!



You can find me at:









