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8/28/2024

EFFECT OF THE CHANGE: HACKERS GETTING EASY ACCESS



WHO IS ON THE OTHER END OF



WHAT IS THE INFORMATION?

- Knowledge is something you know for eg the earth is spherical in shape, KJSCE is an engg college, amazon is a shopping website etc
- Data which is physicaly or electronically available like name, address, places etc
- Information is processed data for eg calculating age of a person by knowing the DOB, drawing some statistics by looking into the shopping or spending habit of a person etc
- Any More examples you can add

IN TECHNICAL TERMS

'Information is an asset which, like other important business assets, has value to an organization and consequently needs to be suitably protected'

WHAT IS CYBER CRIME

- First cyber crime took place in 1820
- Cybercrime can be defined as misuse of technology to do any unlawfullactivity.

MOTIVE

- Just for fun
- Financial gain
- Revenge purpose
- Political gain
- Media coverage

- Computer used as a tool
- Computer used as a weapon

Fraud and Crime

- Unauthorised Access and Hacking
- Web Hijacking
- Pornography
- Child Pornography
- Cyber Stalking
- Denial of Service Attacks
- Virus attacks
- Software policy
- Salami Attacks

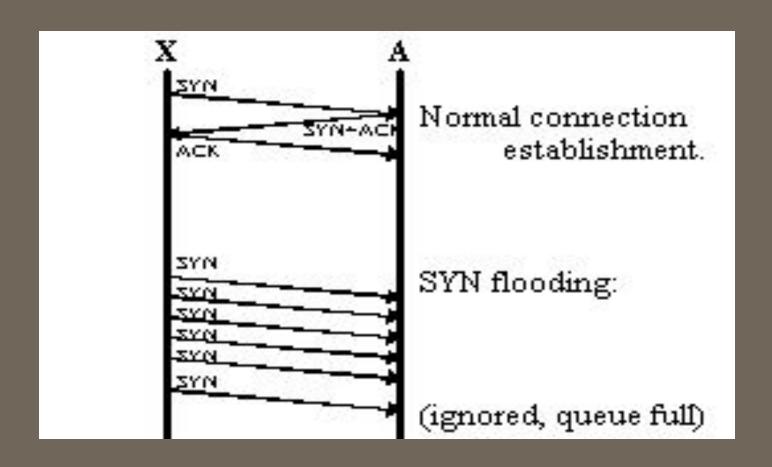
- Phishing
- Sale of illegal articles
- Online gambling
- Email spoofing
- Cyber defamation
- Forgery
- Theft of information contained in electronic form
- Email bombing
- Data Diddling
- Internet time Theft

- Theft of Computer system
- Physically damaging a computer system
- Breach of privacy and confidentiality
- E-commerce / investment frauds
- Cyber Terrorism

DENIAL OF SERVICE ATTACK

• http://study.com/academy/lesson/what-is-a-denial-of-service-d os-attack-definition-types-examples.html

DOS ATTACK AND DDOS ATTACK



WHAT IS MALWARE?

• Malware is an abbreviated term meaning "malicious software." This is software that is specifically designed to gain access or damage a computer without the knowledge of the owner.

Most common types of Malware of 2020

- Virus: Spreads with user action, such as opening an infected file. They depend on a host file.
- Worms: They replicate themselves automatically, without the use of a host file.
- Trojan Horse: Malware that disguises as legitimate software. Once you install the "legitimate software" the malware takes control of your system.
- **RootKit**: Hidden deeply within the computer files. It provides continued privilege or backdoor access to the computer.

Most common types of Malware of 2020 cont..

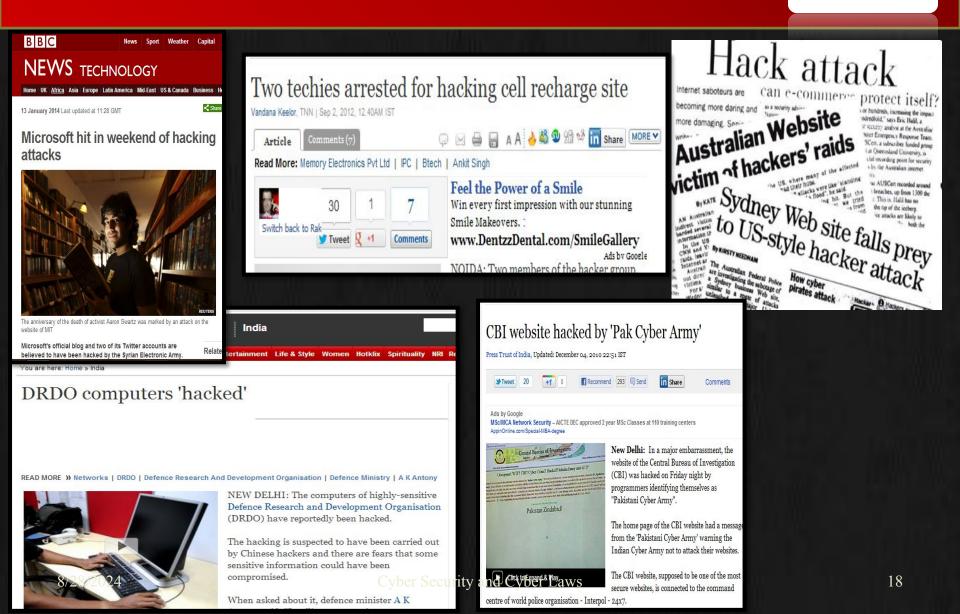
- Logic Bomb: A set of instructions inserted into software that sets off a malicious action when a certain condition is triggered.
- Exploit Kit: Searches for software vulnerabilities. It is very effective on unpatched systems.
- Adware: Stands for Malicious Ads. It presents continuous unwanted ads on a computer. Some adware monitors the user's behavior so it can serve tailored ads.
- Ransomware: It blocks (kidnaps) key files or data on the computer and asks for money so they can be liberated.

CHALLENGES OF TECHNOLOGY

- Lack of Awareness
- Lack of Training
- Lack of Security standard model
- No international collaboration to combat the attacks
- Sophistication of the Hackers

Hacking





Hacking





15 Goa govt websites hacked claims ehacking site

07 Jul 2013

According to Sabari Selvan reporting for e-Hacking News claims that a hacker known as "H4x0r HuSsY" from Pakistan has managed to take control of few Indian Government websites and has defaced them. All of the hacked websites belong to Goa State.

The affected websites includes NRI Commission of Goa (nri.goa.gov.in), Directorate of Agriculture (www.agri.goa.gov.in), Directorate of Art and Culture (artandculture.goa.gov.in/uploads/index.html), Directorate of Fire & Emergency Service (goadfes.gov.in/media/index.php), Goa Dental College(gdch.goa.gov.in), Government Printing Press & Stationery(goaprintingpress.gov.in). Other affected websites dfda.goa.gov.in,dsya.goa.gov.in, Deapartment of Labour & Employment (labour.goa.gov.in), Captain of Ports Department (ports.goa.gov.in), River Navigation Department Goa(rnd.goa.gov.in/uploads/index.php), Department of Sainik Welfare Govt. of Goa(www.dosw.goa.gov.in). socialwelfare.goa.gov.in/media/index.php, Department of Tourism(goatourism.gov.in/images/index.php)

This is not the first time Indian websites being hacked by this hacker. In the past, he hacked into a number of Indian Government websites and left them defaced

Unknown column '3www tare clause'





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Breaking News: next session of Parliament: Finance minister Arun Jaitley

Email ID hacked, Rs 1.13 crore withdrawn from NRI's account

PTI | Nov 25, 2014, 09.05 PM IST

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READ MORE "DEmail Id Hacked | Rs 1.13 Crore Withdrawn From NRI's Account | FCNR | Manipal Branch Of Syndicate



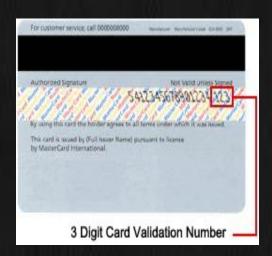
The fraud was committed after hackers made their way into the NRI's personal email ID and sent mails to the Manipal Branch of Syndicate Bank

MANGALURU: A Canada-based NRI has lost Rs 1.13 crore from his account with a bank in Manipal after hackers made their way into his email account and got the money transferred to two of their accounts overseas, according to a complaint lodged with the police.

The fraud was committed after hackers made their way into the NRI's personal email ID and sent mails to the Manipal Branch of Syndicate Bank asking for transfer of the money from his Foreign Currency Non-Resident Account (FCNR) police said

Ecommerce Frauds







Case:- Paytm Database Hacking







CASES

- https://economictimes.indiatimes.com/tech/software/whatsapp-says-it-moved-fast-to-contain-spyware-attack-damage/articles-how/69435047.cms
- https://economictimes.indiatimes.com/magazines/panache/mumbai-police-initiates-probe-into-hacking-of-big-bs-twitter-account-informs-maharashtra-cyber-unit/articleshow/69737199.c
 ms
- https://economictimes.indiatimes.com/industry/banking/finance/e/banking/un-security-council-panel-finds-cosmos-bank-cyber-attack-motivated-by-n-korea/articleshow/68589549.cms

CURRENT ATTACKS

- https://www.cisomag.com/amazon-suffers-fraud-attack-from-c
 ybercriminals/
- https://www2.deloitte.com/be/en/pages/risk/articles/insurance.
 httml

CYBER WARFARE

• https://www.bbc.com/news/world-us-canada-48735097

THE UNPROTECTED CONNECTED





TOP 3 MOBILE SECURITY CONCERNS



Bank details stolen



Online fraud



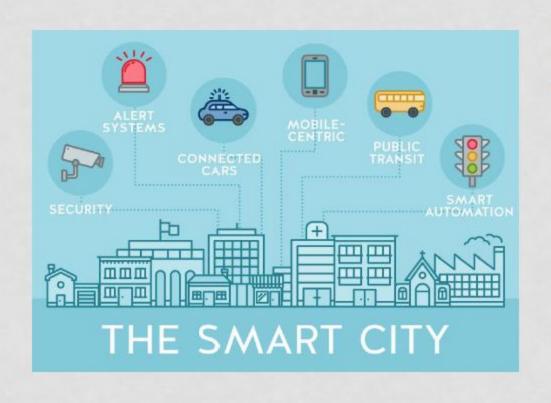
Phishing attacks for personal information

HIGH-RISK MOBILE SPYWARE OF THE RISE



of emerging mobile malware threats monitor location, calls, text and emails and track the victims' web browsing.

TOP 7 SMART CITIES PRONE TO CYBI ATTACKS



Below is the list of Top 7 developed smart cities arouthe world, but also labelled the most vulnerable Cities to Cyber threats:

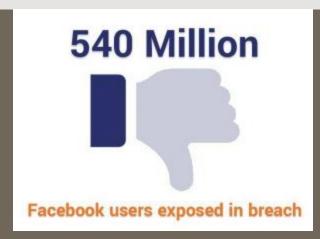
- Santander, Spain
- New York City, USA
- Aguas De Sao Pedro, Brazil
- Songdo, South Korea
- · Tokyo, Japan
- Hong Kong
 - Arlington County, Virginia, U

ATTACKS THROUGH EMAIL

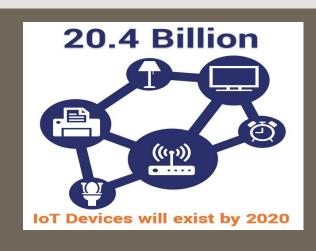
Malicious Email Per User by Industry (per year)

Industry	Users Targeted (%)
Mining	38.4%
Wholesale Trade	36.6%
Construction	26.6%
Non-classifiable Establishments	21.2%
Retail Trade	21.2%
Agriculture, Forestry & Fishing	21.1%
Manufacturing	20.6%
Public Administration	20.2%
Transportation & Public Utilities	20.0%
Services	11.7%
Finance, Insurance & Real Estate	11.6%
(62)	

CYBER SECURITY STATISTICS FOR 2019









CYBER SECURITY STATISTICS FOR 2019



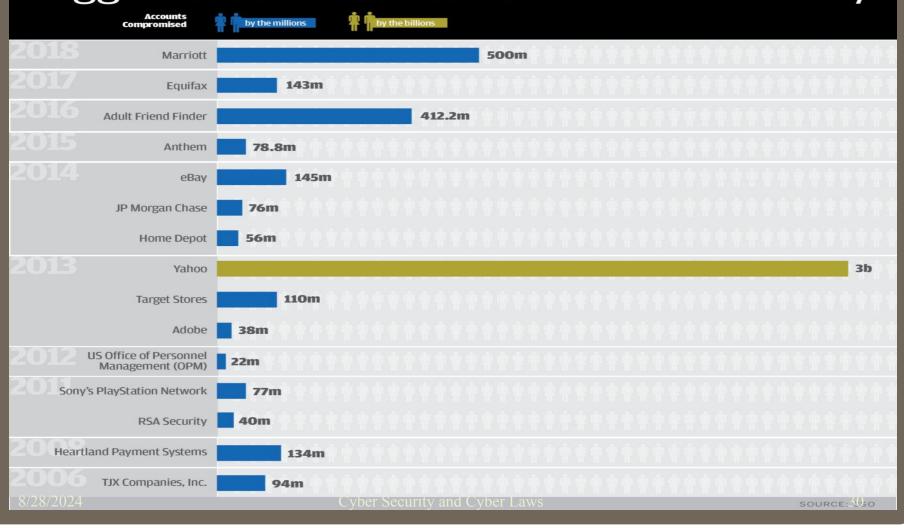






TAYLOR ARMERDING CSO

Biggest DATA BREACHES of the 21st century



CLOUD SECURITY

According to

Gartner

Through 2020, more than half of security failures

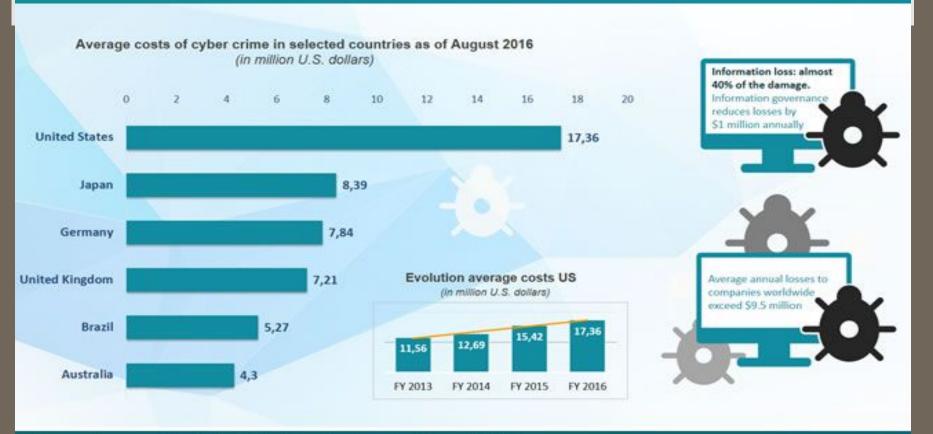
associated with laaS and PaaS will be attributable to significant

security gaps caused by failure to adopt Privileged Access

Management technology and processes.²

Cyber crime: average company loss in selected countries 2016





Source: Ponemon Institute - HP Enterprise Security (August 2016)

http://www8.hp.com/us/en/software-solutions/ponemon-cyber-security-report/ https://www.hpe.com/h20195/V2/getpdf.aspx/4AA6-7930ENW.pdf

AADHAR CARD DATA BREACH, WORLD'S LARGEST BREACH

• https://www.moneylife.in/article/aadhaar-data-breach-largest-i-
n-the-world-says-wefs-global-risk-report-and-avast/56384.htm
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https://www.moneylife.in/article/aadhaar-data-breach-largest-i-
https://www.moneylife.in/article/aadhaar-data-breach-largest-i-">https://www.moneylife.in/article/aadhaar-data-breach-largest-i-
<a href="https://www.moneylife.in/article/aadhaar-data-brea

- https://krebsonsecurity.com/2019/05/first-american-financial-c
 orp-leaked-hundreds-of-millions-of-title-insurance-records/
- https://www.forbes.com/sites/zakdoffman/2019/04/18/facebook-illegally-harvested-data-from-1-5m-users-as-it-leveraged-its-data-machine/#3761d2f26a2e

PREVENTIVE APPROACH EXPECTED IN INDIA

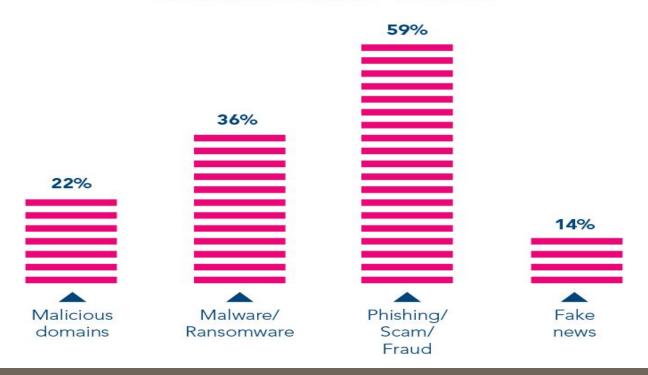
• https://www.pwc.in/consulting/cyber-security/blogs/seven-cyb
er-security-trends-that-india-will-witness-in-2019.html

INDIAN MARKET DEMAND

• https://www.business-standard.com/article/companies/india-ne-eds-3-million-cyber-security-professionals-right-now-ibm-118
<a href="https://www.business-standard.com/article/companies/india-ne-eds-article/com/article/com/article/com/article/com/article/com/article/com/article/com/article/com/article/com/article/com/article/com/article/com/article/com/article/

https://www.interpol.int/en/crimes/cybercrime/covid-19cyberthreats

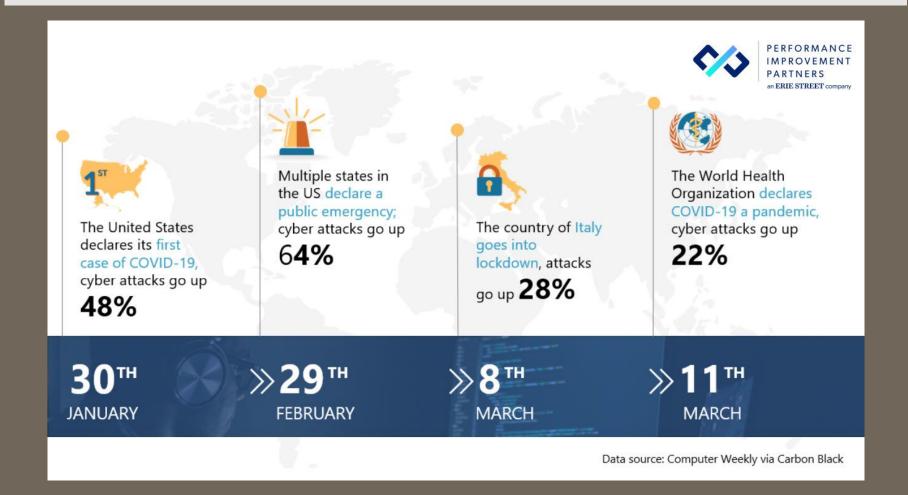
Distribution of the key COVID-19 inflicted cyberthreats based on member countries' feedback



- https://www2.deloitte.com/ch/en/pages/risk/articles/impact-co
 vid-cybersecurity.html
- https://www.thehindubusinessline.com/info-tech/surge-in-cybe rcrime-amidst-covid-pandemic-86-involved-in-phishing-study/article34140656.ece

• https://economictimes.indiatimes.com/news/company/corporat e-trends/3x-increase-in-cyber-attacks-results-in-increased-bud gets-and-attention-on-cyber-security-issues-etilc-members/arti cleshow/83949181.cms

https://www.pipartners.com/covid-19-cyber-security-statistics-40 -stats-and-facts-you-cant-ignore/



THANK YOU