Cybersecurity

This is a **list of cybersecurity information technology**. Cybersecurity is security as it is applied to information technology. This includes all technology that stores, manipulates, or moves data, such as computers, data networks, and all devices connected to or included in networks, such as routers and switches. All information technology devices and facilities need to be secured against intrusion, unauthorized use, and vandalism. Additionally, the users of information technology should be protected from theft of assets, extortion, identity theft, loss of privacy and confidentiality of personal information, malicious mischief, damage to equipment, business process compromise, and the general activity of cybercriminals. The public should be protected against acts of cyberterrorism, such as the compromise or loss of the electric power grid.

Cybersecurity is a major endeavor of the IT industry. There are a number of professional certifications given for cybersecurity training and expertise.[1] Although billions of dollars are spent annually on cybersecurity, no computer or network is immune from attacks or can be considered completely secure. The single most expensive loss due to a cybersecurity exploit was the ILOVEYOU or Love Bug email worm of 2000, which cost an estimated 8.7 billion American dollars.[2]

This article attempts to list all the important Wikipedia articles about cybersecurity. There are a number of minor articles that can be reached by means of links in the listed articles

Introductory articles about cybersecurity subjects:

Security

Computer security[3]

Internet security[4]

Network security[5]

Information security, Data security[6]

List of computer security certifications

CryptographyEdit

The art of secret writing or code. A "plaintext" message is converted by the sender to "ciphertext" by means of a mathematical algorithm that uses a secret key. The receiver of the message then reverses the process and converts the ciphertext back to the original plaintext.[7]

History of cryptography

Enigma machine

Alan Turing

Cipher

Substitution cipher

One-time pad

Beale ciphers

The Codebreakers[8]

Cryptanalysis

Cryptographic primitive

Cryptographic Service Provider

Data Encryption Standard

Advanced Encryption Standard

International Data Encryption Algorithm

HMAC

HMAC-based One-time Password algorithm

Cryptographic hash function

Hash collision

List of hash functions

Comparison of cryptographic hash functions

Hash-based cryptography

SHA-1

SHA-2

SHA-3

SHA-3 competition

Cryptographic nonce

Salt (cryptography)

Cryptographic strength

Block cipher

Block cipher mode of operation

Stream cipher

Key (cryptography)

Key size

Cryptographic key types

Symmetric-key algorithm

Public-key cryptography

Public-Key Cryptography (conference)

Digital signature

Non-repudiation

Public key certificate

Certificate authority

X.509

Public key fingerprint

RSA (cryptosystem)

Secret sharing

Internet key exchange

Pretty Good Privacy

Strong cryptography

SteganographyEdit

The art of hidden writing. The secret message is hidden within another object, such as a digital photograph.[9]

Steganography

BPCS-Steganography

Steganography tools

Steganalysis

OpenPuff

Kristie Macrakis[10]

Modes of potential attacks on IT facilities.[13]

Cyberattack

STRIDE (security)

Vulnerability (computing)

Common Vulnerabilities and Exposures

Privilege escalation

Social engineering (security)

Malware

Spyware

Backdoor (computing)

Computer virus

Computer worm

Macro virus

Keystroke logging

Trojan horse

Hardware Trojan

Eavesdropping

Zombie

Botnets

Advanced persistent threat

Man-in-the-middle attack

Man-on-the-side attack

Meet-in-the-middle attack

Length extension attack

Replay attack

Pre-play attack

Dictionary attack

Biclique attack

Denial-of-service attack

Resource exhaustion attack

Brute-force attack

Watermarking attack

Mangled packet

Reverse connection

Polymorphic code

Password cracking

Spoofing attack

POODLE

Cybercrime agencies

AgenciesEdit

ASEAN[115]

Australian High Tech Crime Centre

Cyber Crime Investigation Cell, a wing of Mumbai Police, India

Cyber Crime Unit (Hellenic Police), formed in Greece in 1995

EUROPOL

INTERPOL

National Cyber Crime Unit, in the United Kingdom

National White Collar Crime Center, in the United States