

# W01 Vocabulary: Availability, Confidentiality, Integrity

## Main Concepts

The fundamental principles of cybersecurity are confidentiality, integrity, and availability. Many use the term “CIA triad” as an easy way to remember them.

Term	Definition
confidentiality	The assurance that an information resource is protected from unauthorized exposure.
disclosure	The loss of confidentiality.
integrity	The assurance that an information resource is correct and protected from unauthorized modification.
tampering (also “alteration”)	The loss of integrity.
availability	The assurance that an information resource is accessible in a timely manner.
denial of service	The loss of availability.
breach	A cybersecurity event that results in a loss of confidentiality, integrity, or availability.

## Intellectual Property Legal Jargon

intellectual property	An idea, invention, or process derived from the work of the mind or intellect.
copyright	The legal control of how a creative work may be disseminated, distributed, or exhibited.
patent	The legal control of how an invention may be manufactured and distributed.
trademark	The legal control of how names and images representing a product, creative work, or brand may be used.
trade secret	Organizational control of confidential intellectual property.
identity theft	Crimes in which someone wrongfully obtains and uses another person’s personal data.

## Enabling Resources

account	An arrangement in which a person may use computer or network services.
privileged account	An account with additional authorization beyond a regular user's account.
shell access	Authorization to operate a computer system using a command-line or graphical user interface.

## Words that Describe Location and Disposition of Assets

Phishing is a type of communications fraud. A phishing attack is usually an email or web site, which impersonates a legitimate enterprise or individual, and attempts to use social engineering principles to get the reader to divulge passwords or other private information.

On-premise	Local information resources, owned and operated by an organization.
cloud	External Internet-based information resources, which may be rented or leased.
data being processed	Information being used or manipulated by a computer.
data at rest	Information saved to long-term storage media.
data in transit	Information being copied or moved from one machine to another.

## Health-related Computer Problems

repetitive strain injury	Painful injury to muscles and nerves, caused by cumulative damage from repetitive movements.
noise-induced hearing loss	Reduced ability to hear due to chronic exposure to loud sounds, such as high volume audio from earbuds or headphones.
screen addiction	Compulsive behavior associated with cravings to use devices to connect with online media and negative psychological symptoms when unable to connect.

## Generic IT Terms

application	Software and systems used to accomplish tasks.
information systems	Integrated components for collecting, storing, and processing data and for providing intelligence, knowledge, and digital products.
user	A person operating an application or an information system.
user interface	The systems that let a human and a machine interact with each other.
BYOD	Bring your own device; an information system that allows anyone to connect with their own gadgets, instead of restricting the system to only those devices owned by its controlling organization.