The OSI security Architecture:

* Security attack : Any action that compromises the security of information owned by an organization
* Security Mechanism : A process that is designed to detect , prevent , or recover from a security attack
* Security service: A processing or communication service that enhance the security of the date processing systems and the information transfers of an organization. The Services are intended to counter security attacks, and they make use of one or more security mechanism to provide the service.
* Threat: a potential for violation of security, which exist when there is a circumstance, capability, action, or event that could breach security and cause harm. Threat is a possible danger that might exploit a vulnerability.

13- April- 2021

Denial of Services (DoS)

Incident in which our user or organization is derived of the services of a resource they put normally expect to help, in a distributed denial services a large numbers of compromised systems called boat net attack a single target,

Advanced Persistent threat (APT):

It is a network attack in which an unauthorized person gain access to a network and stays there undetected for a long period of time. The intention of an APT attack is to steal data. Rather than caused damaged to the network or organization. APT attack target organization in sector with high value information. Such as national defense manufacturing and financial industry.

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**Digital communication system**

Channel

(received signal)

Demodulator

Channel decoder (estimation of channel code word)

Source decoder (estimation of source code word)

User of information

….Data streans originating from digital computer and multiplex then for tdm. TDM transmission over a public switch telephone network. The implementation of this first group of multiplexers requires the use of models.

The Second group of digital multiplexers form the part of the data transmission service provided by telecommunication carriers At&t . in particular these multiplexers

Received signal

(wave form)

Source decode

Channel decode

demodulator

channel

Modulater

Channel encoder (channel code word)

Source encoder (source code word)

Source of information