

# Cryptography and Network Security

Dr.G.Sanjiv Rao

Professor

Department of C.S.E

Aditya College of Engineering & Technology

Surampalem

Subject: Cryptography and Network Security

Topic: Attacks

Teaching Methodology: Problem based learning



Fig.1. Creating problem and articulating learning outcomes



Fig.2. Cyber Security

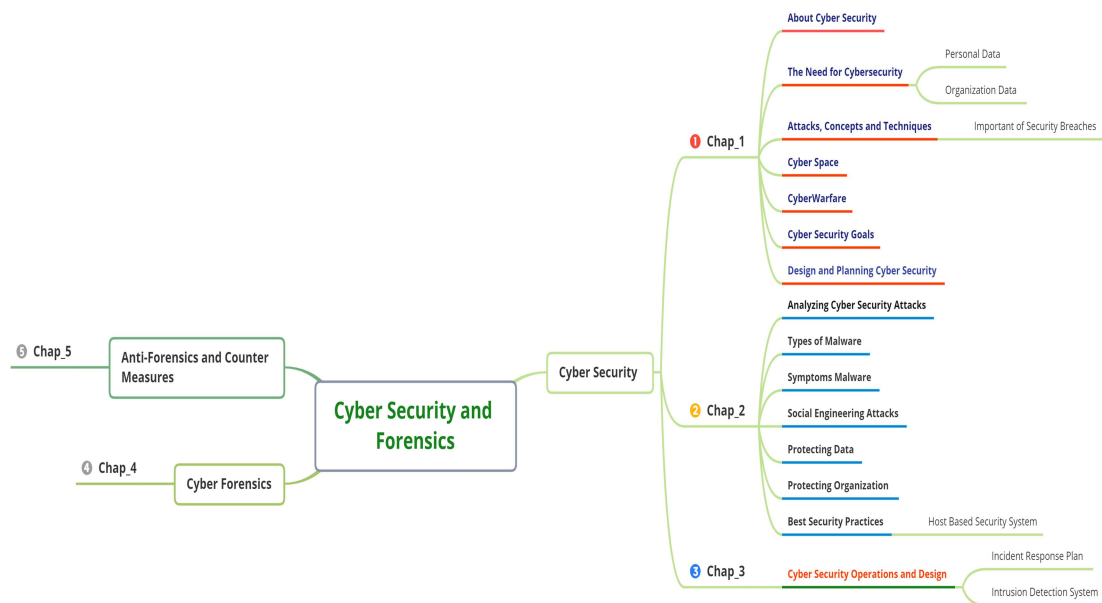


Fig.3. Identifying types of attacks

What is meant by Cyber Security?

- The term cyber security is used to refer to the security offered through on-line services to protect your online information
- Cyber security refers to the body of technologies, processes, and practices designed to protect:
  - Networks
  - Devices
  - Programs
  - data from attack
  - Damage
  - unauthorized access.
- Cyber security may also be referred to as information technology security.
- Protection of networked system and data from unauthorized use or harm



Fig.4. The need for Cyber security attacks

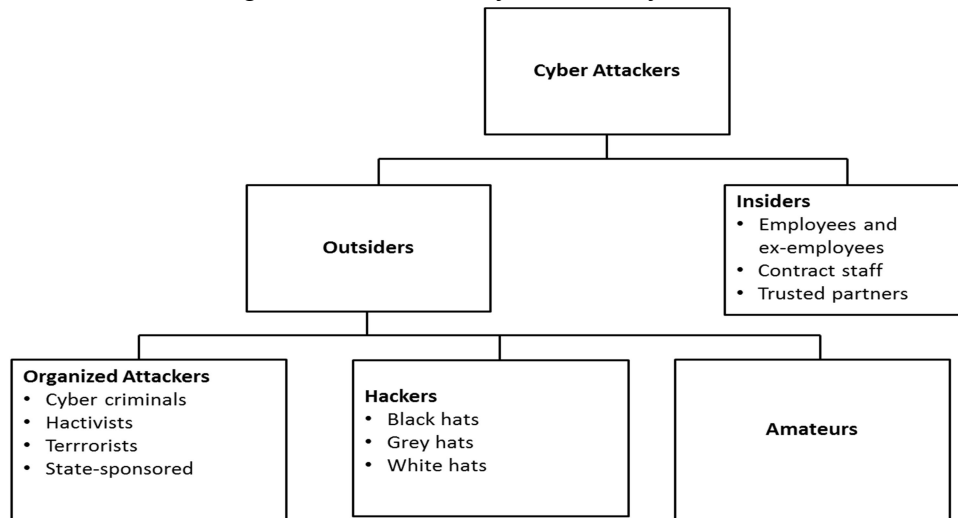


Fig.5.Cyber Security Goals



Fig.6. Protecting Data

- The objective of Cybersecurity is to protect information from being stolen, compromised or attacked.
- Cybersecurity can be measured by at least one of three goals-
  1. Protect the confidentiality of data.
  2. Preserve the integrity of data.
  3. Promote the availability of data for authorized users.