

## Home Work

### 1. What is a honeypot? What are its functions?

Honeypot is a class of powerful security tools that go beyond routine intrusion detection.

Its functions are:

- Divert an attacker from critical systems
- Collect information about the attacker's activity
- Encourage the attacker to stay on the system long enough for administrators to document the event and, perhaps, respond

### 2. What are the advantages and disadvantages of using a padded cell?

*Advantages:*

- Attackers can be diverted to targets that they cannot damage.
- Administrators have time to decide how to respond to an attacker
- Attackers' actions can be easily and more extensively monitored, and the records can be used to refine threat models and improve system protections.
- Honeypots may be effective at catching insiders who are snooping around a network.

*Disadvantages:*

- The legal implications of using such devices are not well understood.
- Honeypots and padded cells have not yet been shown to be generally useful security technologies.
- An expert attacker, once diverted into a decoy system, may become angry and launch a more aggressive attack against an organization's systems.
- Administrators and security managers need a high level of expertise to use 106 these systems.

### 3. Compare "Enticement" and "Entrapment"

Enticement is the act of attracting attention to a system by placing tantalizing information in key locations. Entrapment is the act of luring an individual into committing a crime to get a conviction. Enticement is legal and ethical, whereas entrapment is not.