Network Interface coul (NIC) - Networking device Also known as NIW Adapter card, ethernot and, LAN card > NIC converts sevices destactions parallel data stream into sevial data & Types I (a). Media specific: Different types of wice are used to connect with different types of media.

(b). No design apecific: A specific who design needs a specific

3 hothods to dotect halware:

@ Signature detection setects the pattern

10 - Charge dotection: detecte charge in files.

10 - State Detection: Anomaly based. Detects charge in behaviour

HoneyPot: -> HoneyPot is a trap to detect unauthorized access.

-> It is a computer or an IP address space that appears to be a past of new unprotected 2 monitored which scome to condain information but its just a trap for attackers. Honeynet > network of honeypok.

Cellphone Security

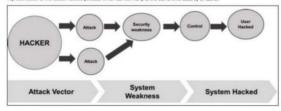
Mobile Security as a concept deals with the protection of our mobile devices from possible attacks by other mobile devices, or the wireless environment that the device is connected to.

Following are the major threats regarding mobile security -

- Loss of mobile device. This is a common issue that can put at risk not only you but even your contacts by pos-phishing.
- Application hashing or breathing. This is the second most importer issue. Many of us have downloaded and installed priore application, Some of them repeate etria access or printinges such as access to your tection, contact, bring history for marketing purposes, but on the other hand, the site provides access to other contacts too. Other factors of concern are Trojack, viruses, etc.
- Smartphone theft is a common problem for owners of highly coveted smartphones such as iPhone or Android devices. The danger of corporate data, such as account credentials and access to email falling into the hands of a tech third is a threat.

Mobile Security - Attack Vectors

By definition, an Attack Vector is a method or technique that a hacker uses to gain access to another computing device or rehelow in order to inject a "bat code" often called page-odd. The vector helps hackers to explicit



Some of the mobile attack vectors are -

- - Virus and Rootkit
 - o Application modific
 - o OS modification
- Data Exfiltration
 - Data leaves the organization
 - o Print screen

- o Copy to USB and backup loss
- Data Tampering
 - o Modification by another application
 - Undetected tamper attempts
- Data Loss

 - Unauthorized device access
 - Application vulnerabilities

Consequences of Attack Vectors

rectors is the hacking process as explained and it is successful, following is the impact on your mobile dev

- Losing your data If your mobile device has been hacked, or a virus introduced, then all your stored data is lost and taken by the attacker.
- Bad use of your mobile resources Which means that your network or mobile device can go in overload so you are unable to access your genuine services. In worse scenarios, to be used by the hacker to attach another machine or
- Reputation loss In case your Facebook account or business email account is hacked, the hacker can send fake messages to your friends, business partners and other contacts. This might damage your reputation.
- Identity theft There can be a case of identity theft such as photo, name, address, credit card, etc. and the same can
 be used for a crime.

Anatomy of a Mobile Attack

Following is a schematic representation of the ana vectors. ny of a mobile attack. It starts with the infe



Infecting the device with mobile spyware is performed differently for Android and iOS dev

Android – Users are tricked to download an app from the market or from a third-party application generally by using so engineering attack. Remote infection can also be performed through a Man-in-the-Middle (MifM) attack, where an active advers intercepts the user's mobile communications to inject the malware.

IOS – iOS infection requires physical access to the mobile. Infecting the device can also be through exploiting a zero-day such as the JailbreakME exploit.

Installing a backdoor

To install a backdoor requires administrator privileges by rooting Android devices and jailbreaking Apple devices. Despite de manufacturers placing rooting/jailbreaking detection mechanisms, mobile spyware easily bypasses them –

Android - Rooting detection mechanisms do not apply to intentional rooting.

iOS - The jailbreaking "community" is vociferous and motivated.

Bypassing encryption mechanisms and exfiltrating info

Spyware sends mobile content such as encrypted emails and messages to the attacker servers in plain text. The spyware does not directly attack the secure container. It grats the data at the point where the user pulss of data from the secure container in order to read it. All that stage, when the content is decrypted for the user's usage, the spyware takes controls of the content and sends it

