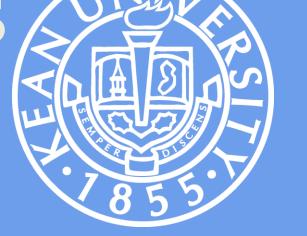


# Understanding of Mobile Hacking with existing vulnerabilities

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#### Introduction

In this project we study current Mobile security problems. Mobile devices are used for our most sensitive transactions, including email, banking, and social media. But they have a unique set of vulnerabilities, which hackers are all too willing to exploit.

We need to know how to close the gaps and protect devices, data, and users from attacks.

## **Ensure the Security**

- To ensure the highest mobile shopping security, you should follow these steps:
- Download authorized apps from Apple and Google stores only.
- Ignore the apps that want to access your contact, message and also requires a password.
- If the developer is untrusted and unusual, do not use their apps.
- Always see the warning message while you download any app.
- Keep your device updated with the latest OS.
- Do not use public Wi-Fi without any serious reason and use VPN.
- Only browse "HTTPS" e-commerce sites. Because they have security encryption.

### **Mobile Threats**

- Bluetooth
- Wifi
- App cracked
- Root Access(super Admin)
- Data Storage
- Internet
- Mobile Adware Pop-Ups
- Mobile Spyware Programs
- Wireless Sniffers & Signal Jammers

#### **Mobile Platform**

- Android It is the biggest and by far most popular. So it is also the biggest target.
- iOS The next biggest platform is Apple's iOS. It seems to be more secure than Android.
- Windows Windows Mobile which is now known as Windows 10. Its market share is reducing day by day.
- BlackBerry It is not used much nowadays.

## Mobile Vulnerabilities

- Operating System The first vulnerability is actually found in the Operating System. There are specific vulnerabilities in each OS that bad actors exploit to gain access or implant malware, etc.
- Apps / App Stores There are a few rogue app stores that hackers have put out into the market from people download malicious apps.
- Malware There are malwares that are specifically written for mobile platforms and perform activities like blocking device, data stealing, send SMS or spoof email, etc.
- "Jail Breaking" It is also known as routing. In the attacker try to get access to the actual OS.
- Privacy Mobile device is a personal property and if it gets compromised in any form it is a big privacy mobile vulnerability.
- Physical Theft Because of the size and portability property of a mobile device, it can be easily stolen and the whole device is automatically compromised.