# ANDROID HACKING

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# #whoami

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# AGENDA

➜ What is android ?

➜ Why Android is commonly targeted?

➜ How can android be hacked ?

➜ How do you know if your phone is hacked ?

➜ Security check ..

➜ How to fix hacked android ?

➜ Prevent android hacking .

➜ Demo

# WHAT IS ANDROID ?

➔ A mobile operating system based on a modified version of the Linux kernel and other open source software, designed primarily for touchscreen mobile devices such as smartphones and tablets

➔ Developed by OHA (Open Handset Alliance ) and Google .

➔ Largest market share ,

more than IOS and Symbian.

Global Mobile OS Market Share

Other
0.7%

iOS
28.5%
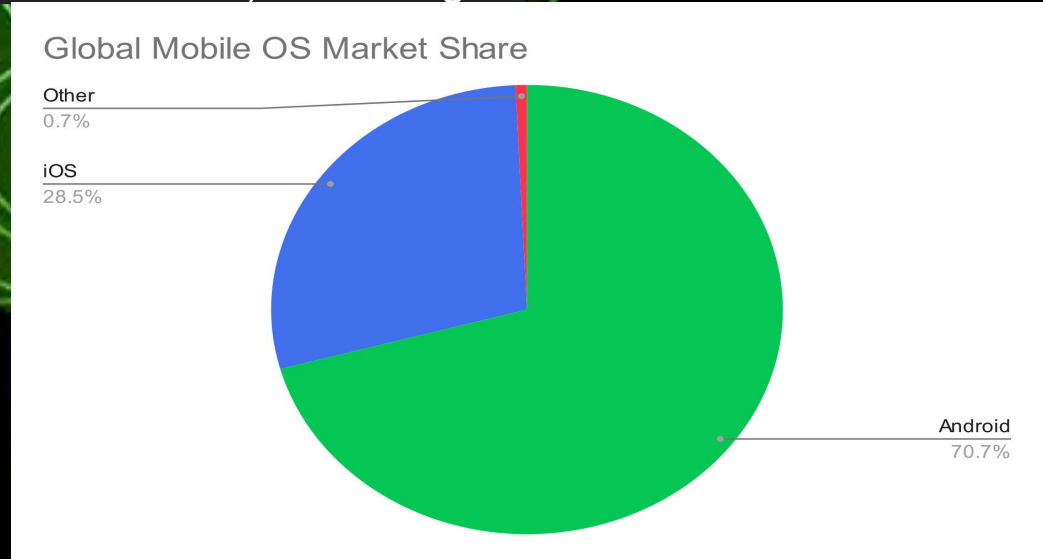
Android
70.7%

# WHY ANDROID ???

➜ Found everywhere (TV , Smartphones , Smart watches , Tablets , etc) .

➜ Easy to exploit + Open source .

➜ Huge Community base.

➜ Official market containing over  3.5 million apps  .

➜ Lack of security awareness .
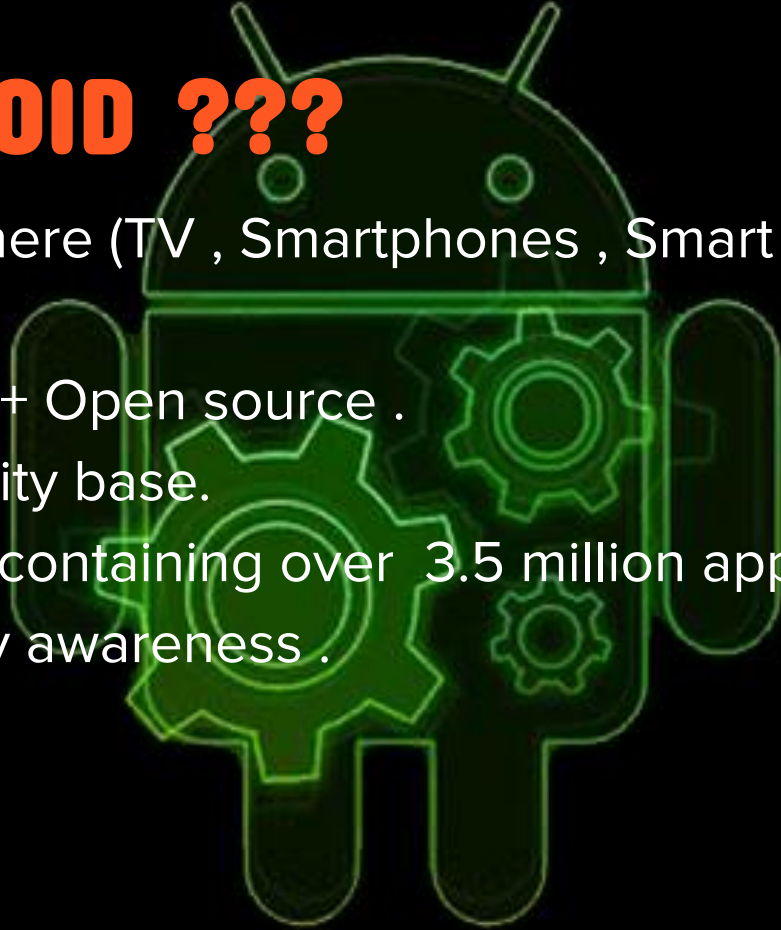
# HOW CAN AN ANDROID BE HACKED ??

The most common ways are :

- Accessing your phone via an unsecured Wi-Fi network .
- Tricking people with social engineering techniques, like getting personal information out of you after you click on links in phishing messages .
- Using tracking software .

# HOW DO YOU KNOW IF YOUR PHONE IS HACKED ?

➔ You receive unrecognized texts or calls
➔ Lots of spam pop-ups appear
➔ Battery drains quickly out of the blue
➔ Sudden spike in data usage
➔ Your phone gets suddenly hot while in use
➔ The device runs more slowly than usual
➔ There are apps you don't remember installing
➔ Changes in call forwarding
➔ Your Android turns itself on and off

# LET'S CHECK IF YOUR PHONE IS HACKED

➔ Enter *#*#4636#*#* or *#*#197328640#*#* via the dialer pad to verify if your phone is being tracked .

➔ Enter *#62* in the dialer, and the 10-digit phone number will appear - the phone number to which your mobile calls and messages are being forwarded .

➔ After you discover your phone was hacked, you can take this number and file a police report. Just enter *#06# code via the dialer pad, and the IMEI number will appear .

# ANDROID HACKED ? HOW TO FIX IT ?

➔ Run an antivirus scan ( ** Never use pirated antivirus or other softwares**)

➔ Clear your device cache
  - ➔ Turn off your phone
  - ➔ Press and hold the Power and Volume Up button at once up until the Android logo comes up
  - ➔ Once you see the Recovery screen, use 'Volume' controls to navigate and move down to select 'Wipe device cache'
  - ➔ Wait for your phone to reset
  - ➔ Once the cache is wiped clean, restart your Android

➔ Delete suspicious apps and files
  - ➔ Go to settings
  - ➔ Scroll down and tap Apps
  - ➔ Check if there are any suspicious apps and delete it .

➔ Disable call redirection and diversion
  - ➔ Open the phone's dialer and dial ##002# .

➔ Factory reset your Android phone

# 10 WAYS TO PREVENT ANDROID HACKING .

➔ Never leave your phone unattended
➔ Keep your phone locked
➔ Use two-factor authentication and biometrics
➔ Download apps from official app stores
➔ Update your operating system
➔ Avoid jailbreaking your phone
➔ Enable remote wiping of your device
➔ Log out of sites when you're through with them
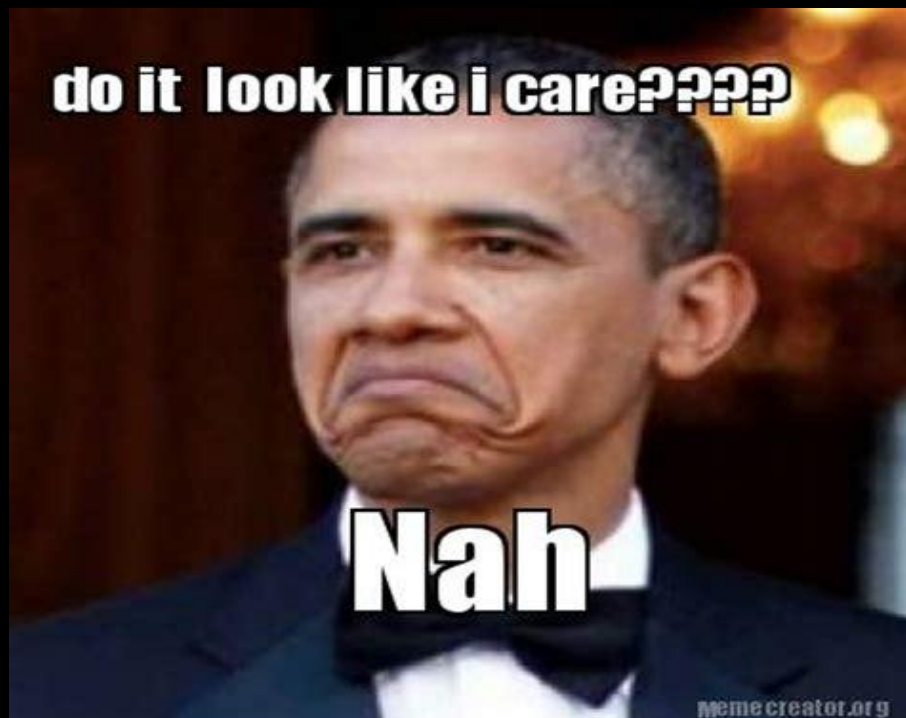➔ Be careful on public Wi-Fi
➔ Encrypt your data

There are more than 1.86 billion websites on the internet. Around 1% of these -- something like 18,500,000 -- are infected with malware at a given time each week; while the average website is attacked 44 times

Some cyber criminals are paying a monthly fee of $5,000 to rent an app that steals access credentials from hundreds of other fraudulent apps

Banking malware threats on Android devices have increased by 80%, meaning that strong phone security is more important than ever before

The site ahead contains harmful p

Attackers on **softwarez.us** might attempt to trick you
your browsing experience (for example, by changing
on sites you visit). Learn more

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Privacy policy

**Warning: Something's Not Right Here!**

_____ contains content from **example.com**, a site known to distribute malware. Your computer might catch a virus if you visit this site.

Google has found malicious software may be installed onto your computer if you proceed. If you've visited this site in the past or you trust this site, it's possible that it has just recently been compromised by a hacker. You should not proceed, and perhaps try again tomorrow or go somewhere else.

We have already notified **example.com** that we found malware on the site. For more about the problems found on **example .com** , visit the Google Safe Browsing diagnostic page.

Go back

If you understand that visiting this site may harm your computer, proceed anyway.

☐ Help improve detection of malware by sending additional data to Google about sites on which you see this warning. This data will be handled in accordance with the Safe Browsing privacy policies.

Malware Detected!

**Warning: Visiting this site may harm your computer!**

The website at **malware.testing.google.test** appears to host malware –
software that can hurt your computer or otherwise operate without your consent. Just visiting a site that hosts malware can infect your computer.

For detailed information about the problems with this site, visit the Google Safe Browsing diagnostic page for malware.testing.google.test. Learn more about how to protect yourself from harmful software online.

☐ I understand that visiting this site may harm my computer.

Proceed anyway
Back to safety

IT'S DEMO TIME !!

THANK YOU

SAFE COMPUTING