



# Mobile Security

Cybersecurity Awareness



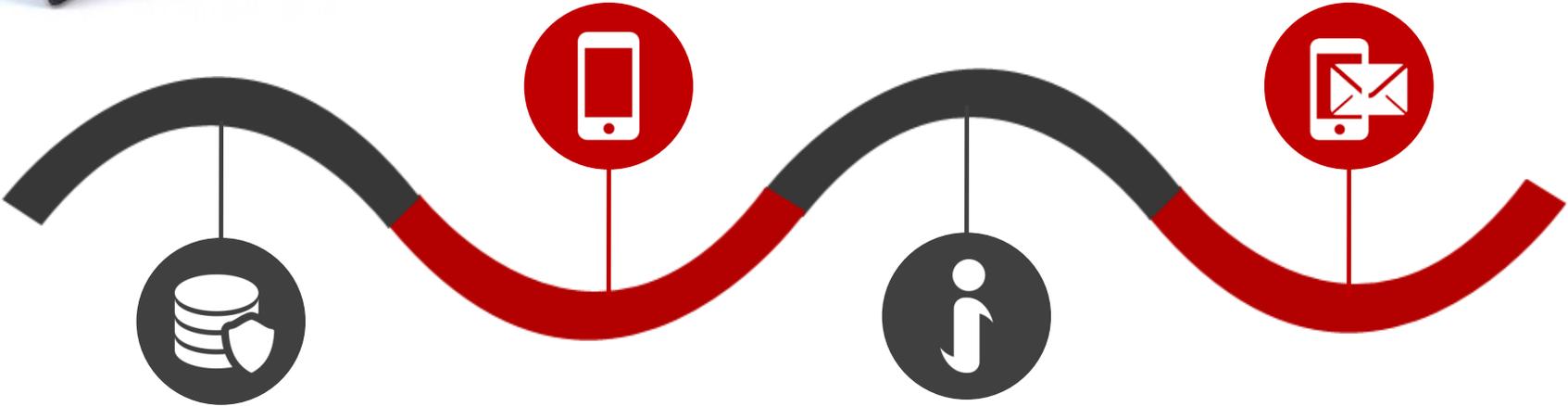
# Mobile Security Introduction

# Mobile Threats



Malware infection

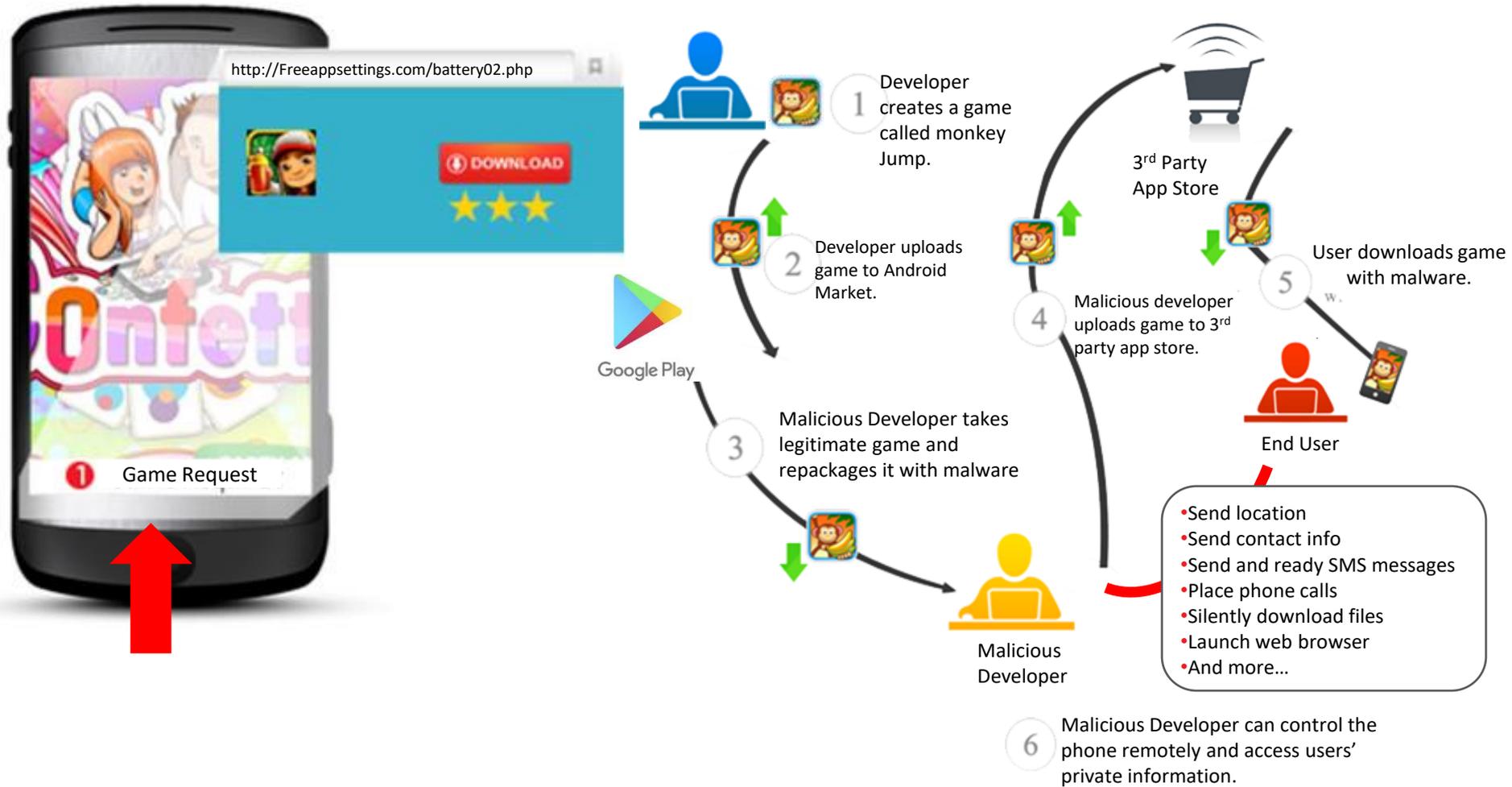
Resource abuse. Sending spam or bulk SMS from user's mobile phone



Corruption, modification or encryption of stored data

Misuse of data. Data loss due to mobile theft, lost, wipeout or deleting the files

# Rogue App



# Trojan: Android.Sockbot

- **Discovered:** October 11, 2017
- **Updated:** October 13, 2017
- **Type:** Trojan
- **Systems Affected:** Android
- **Infection source:** Malicious app on google store: Assassins skins

## How will you protect yourself?

- Update your Android system
- Use updated antivirus and security center
- Never install suspicious apps from unknown sources



# Be careful from unofficial stores

156,502 views | Sep 20, 2019, 01:38pm

## New Android Warning: 500M+ Users Have Installed Apps Hiding Nasty Malware—Uninstall Now



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Cybersecurity

*I write about security and surveillance.*



# Hackers Swiped £30 million

- Hackers swiped £30 million from the bank accounts of 30,000 customers in Italy, Germany, Spain and Holland using mobile malware.
- The fraud used malware based on the infamous Zeus cybercrime toolkit to target the PCs and mobile phones of banking customers.

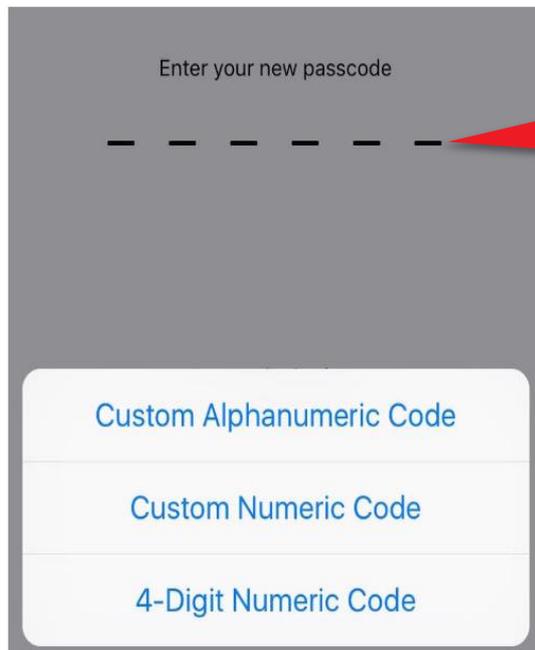




Mobile Security  
IOS and Android Security

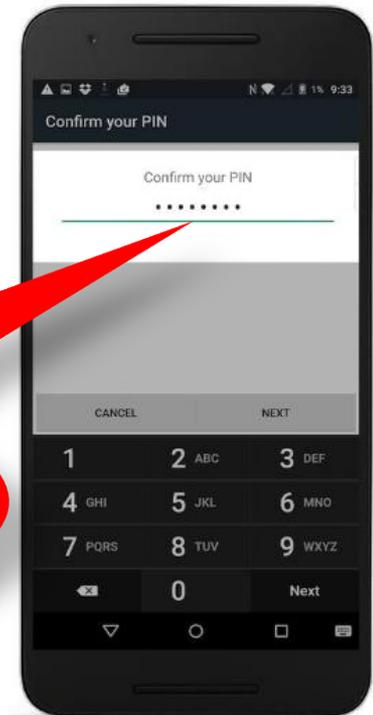
# IOS and Android Security

## Set Strong Passcode



**Settings > Touch ID & Passcode**, and enter your existing passcode if you have one  
If not, select **Turn Passcode On**, and select Passcode Options

**Settings > Screen Lock**  
For a PIN, use a six digit passcode or longer  
For even stronger protections, use an alphanumeric passcode

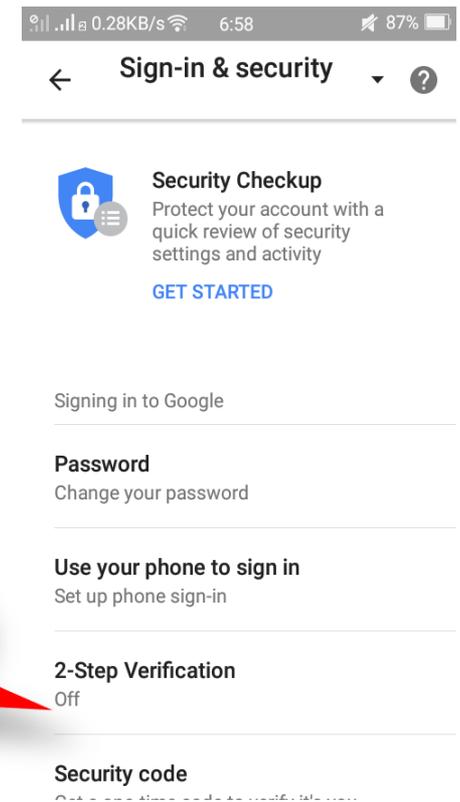


# IOS and Android Security Set Up Two-Factor Authentication



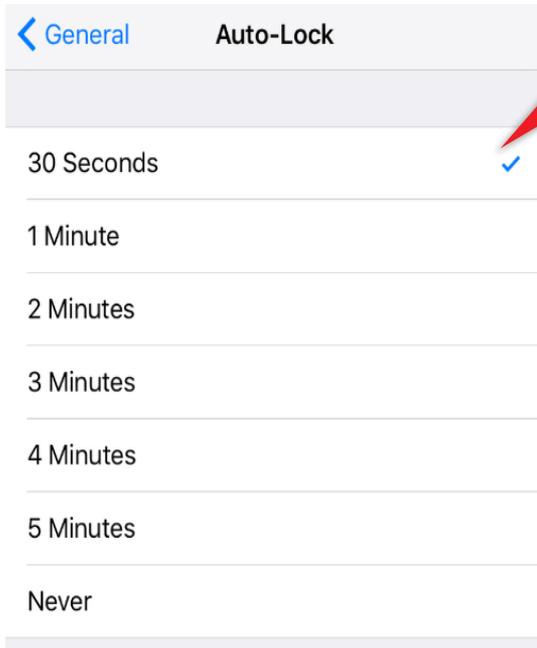
**Apple ID settings page > Manage your Apple ID  
Select Password and Security option  
Then Turn-On Two-Factor Authentication**

**Settings > Accounts > Google > Sign-in &  
Security  
Then Turn-On 2-Step Verification**



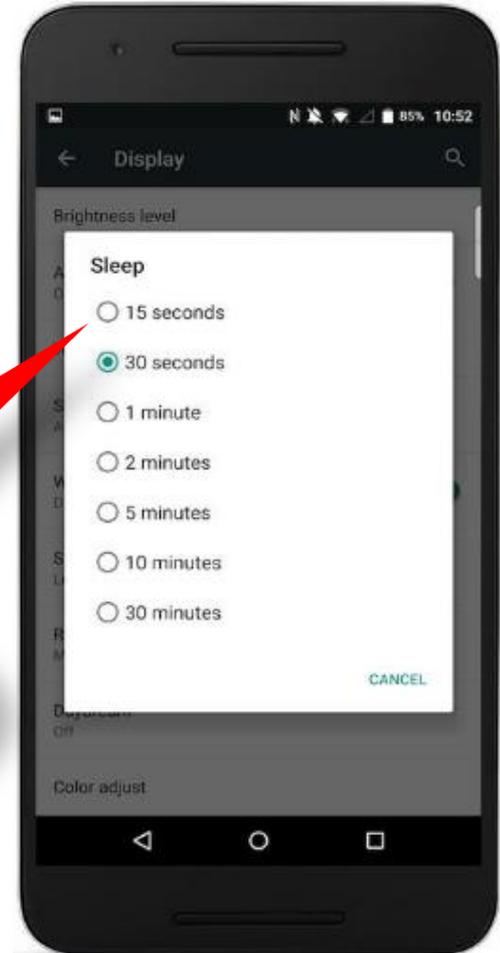
# IOS and Android Security

## Lower Auto-Lock to 30 Seconds

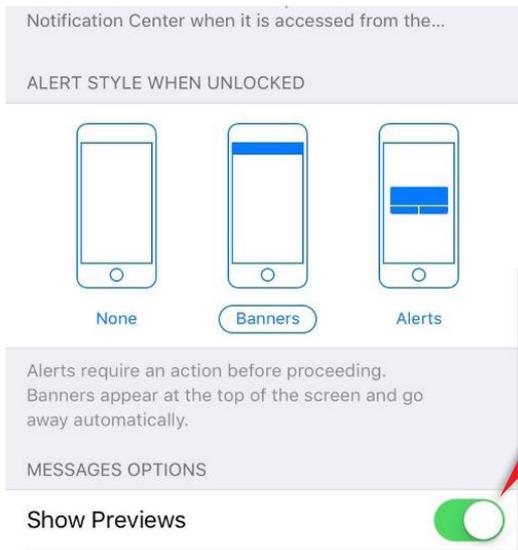


Settings > General > Auto-Lock  
Set your preferences from there  
The lower the number, the greater your overall security

Settings > Display > Sleep  
Change the inactivity timeout to **30 seconds** or lower

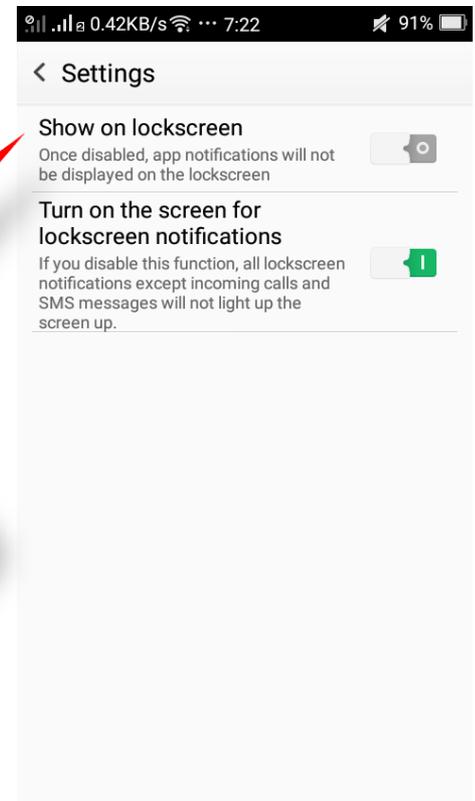


# IOS Security: Prevent Previewing on Lock Screen



**Settings > Notifications** and then disable **Show Previews** so messages won't be displayed on the lock screen

**Settings > Notifications Center > Settings** and then disable **Show on lockscreen** so



# IOS and Android Security

## Keep Your OS Updated

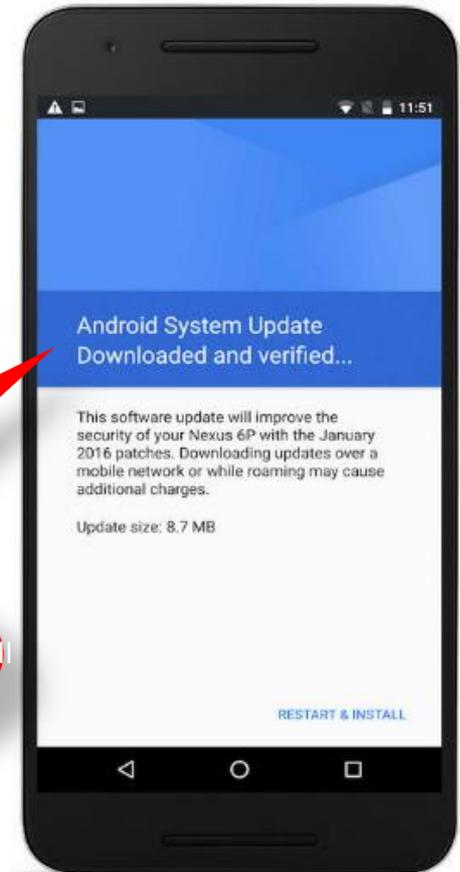


### Settings > General > Software update

If you are not running the latest version of iOS, you will be prompted to download and install it

### Settings > System updates

If you are not running the latest version of Android you will be prompted to Restart and install



# IOS and Android Security

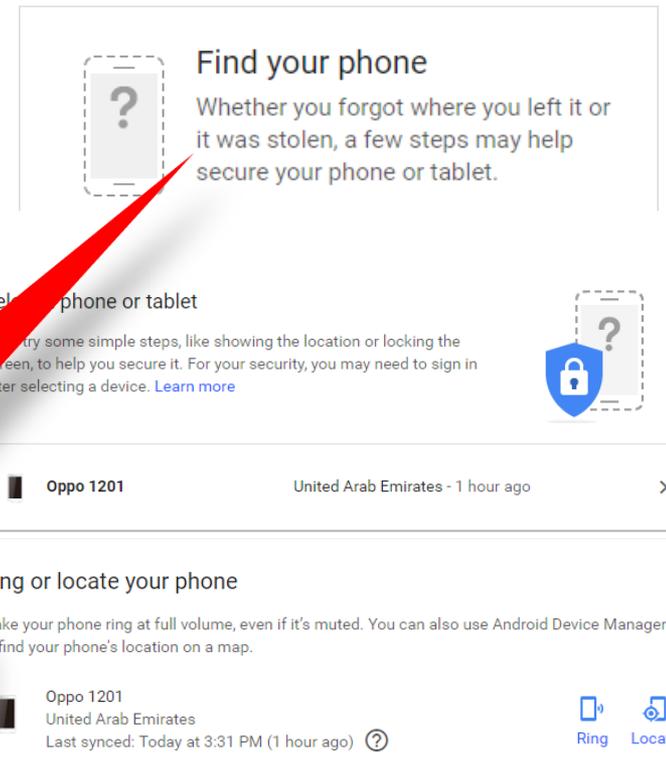
## Activate Find My Phone

**Settings > iCloud > Find My iPhone (or iPad)**

Send Last Location by enabling this option your device will update Apple's servers with the last location before it shuts down



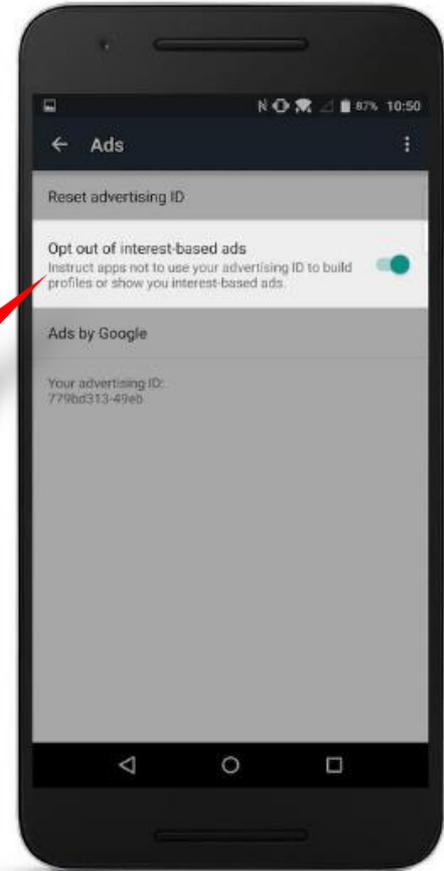
**Gmail account > My Account > Find your phone** then choose which device and which action you need to do



# IOS and Android Security Limit Ad Tracking



**Settings > Privacy > Advertising** and enable the **Limit Ad Tracking** option. From here, make sure you choose the **Reset Advertising Identifier** option, and then accept any prompts



**Google Settings > Ads > Opt out of interest-based ads**  
Enable the setting

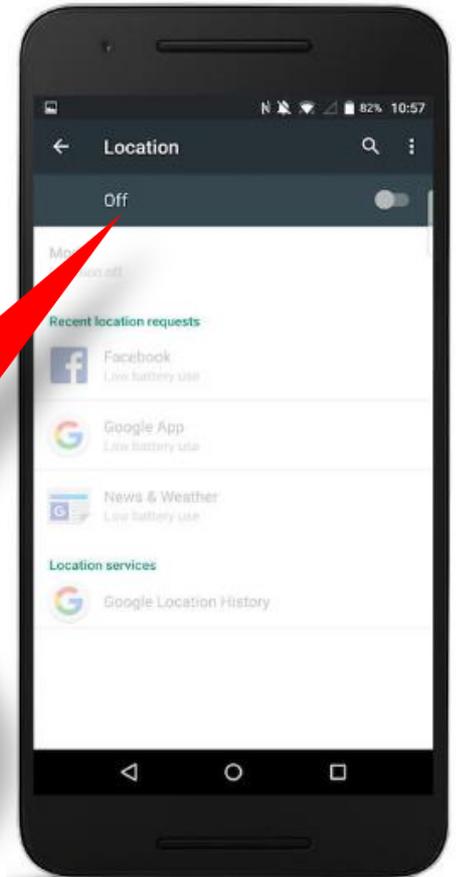
# IOS and Android Security

## Location and Location History



**Settings > Privacy > Location Services > System Services**

Keep **Find My iPhone** enabled  
Select the services you wish to disable  
**Location-Based Advertising** services, for example should not be enabled



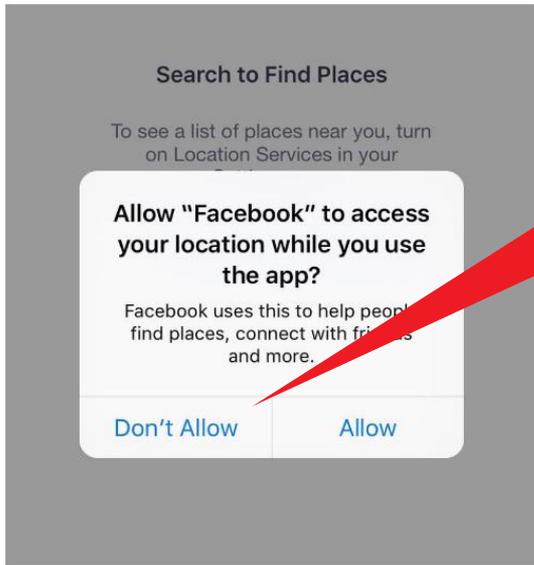
**Settings > Location**

You can turn on or off at the top switch  
You can also turn off **Google Location History** by scrolling to the bottom and turning the option off

From there, you can also **Delete Location History**

# IOS and Android Security

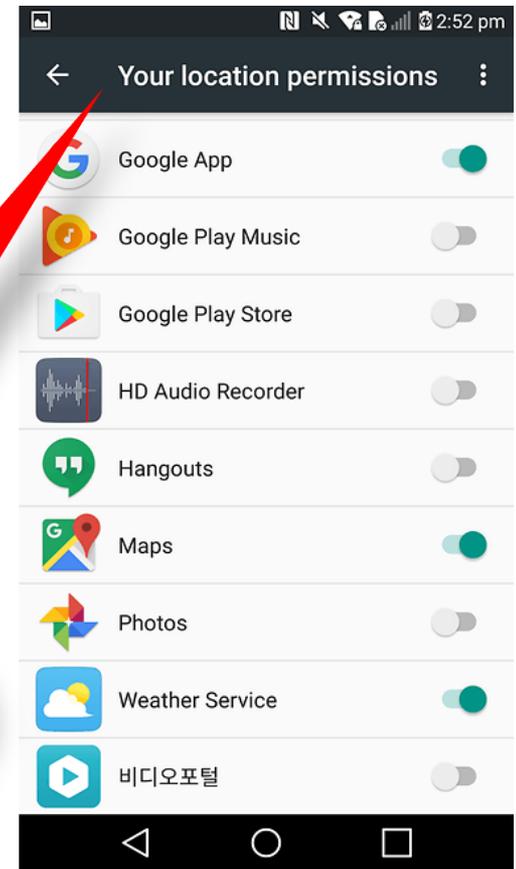
## Prevent Apps from Tracking Your Location



### Settings > Privacy

Select the permission you want to remove and toggle the application off.  
This has to be done for each permission

Settings > Apps > Configure apps or App settings, then App permissions then you can modify your location option for each app



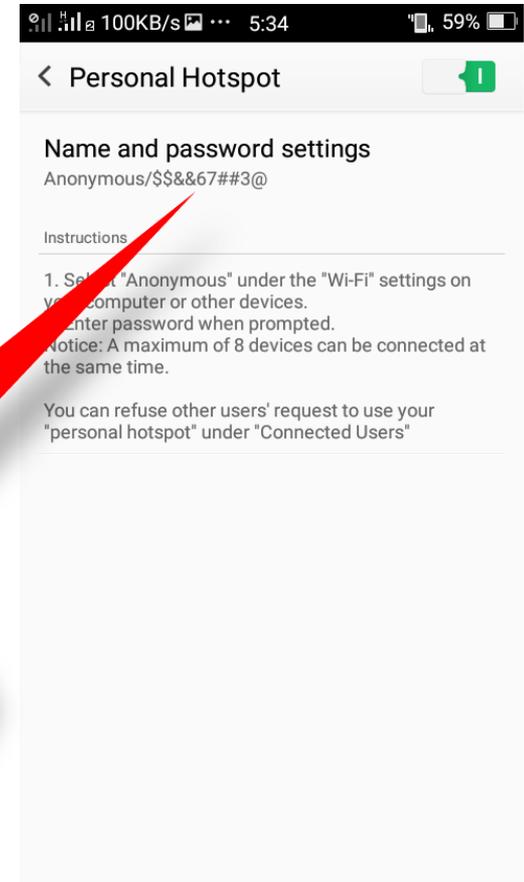
# IOS and Android Security

## Use Strong Wi-Fi Hotspot Password



**Settings > Personal Hotspot**  
Set a strong Wi-Fi password

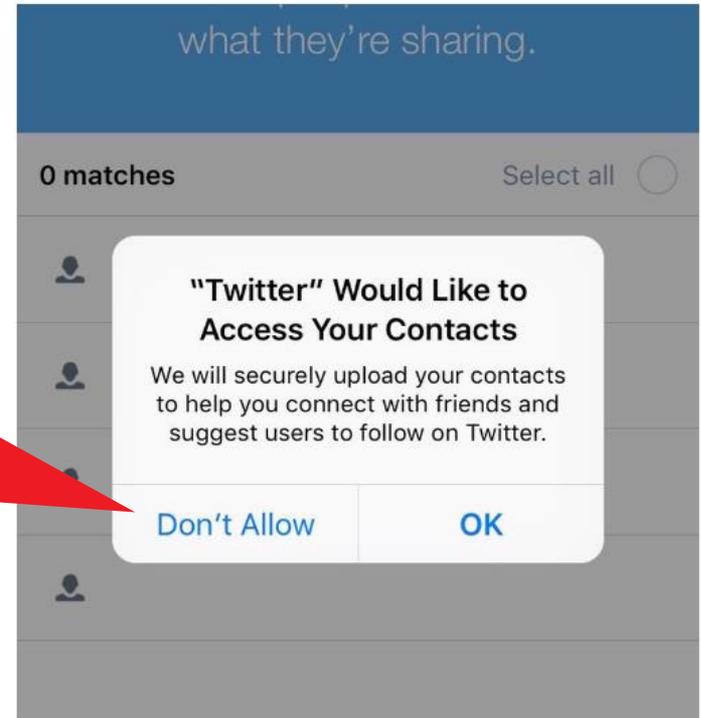
**Settings > More.... > Personal Hotspot**  
a strong Wi-Fi password



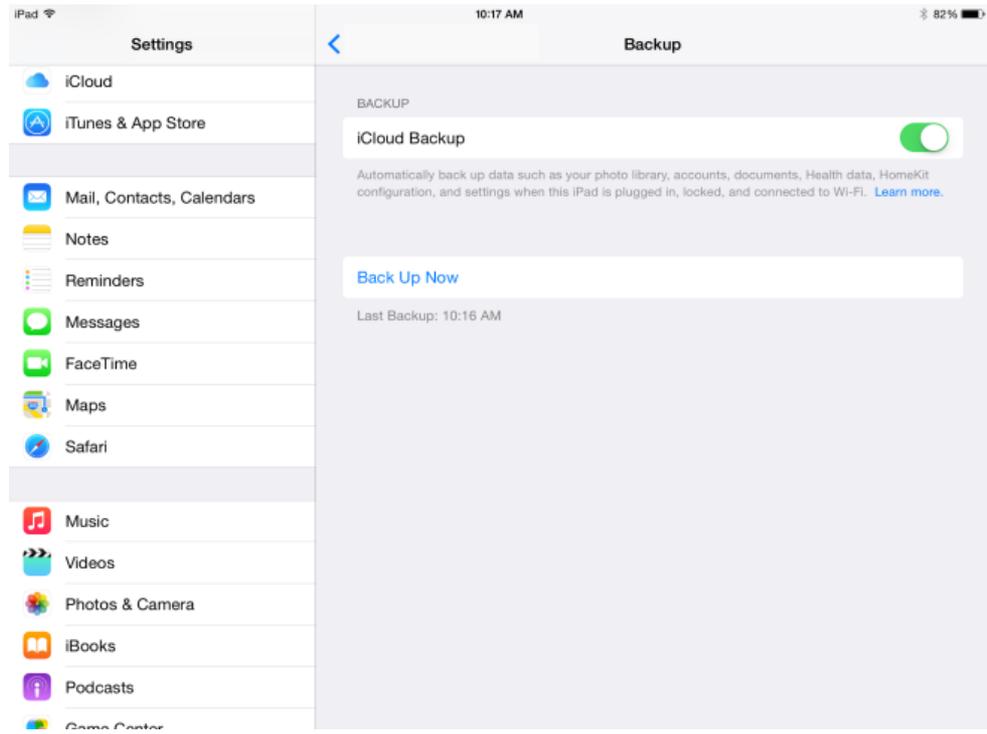
# IOS Security: Prevent Apps from Uploading your Data

## Settings > Privacy

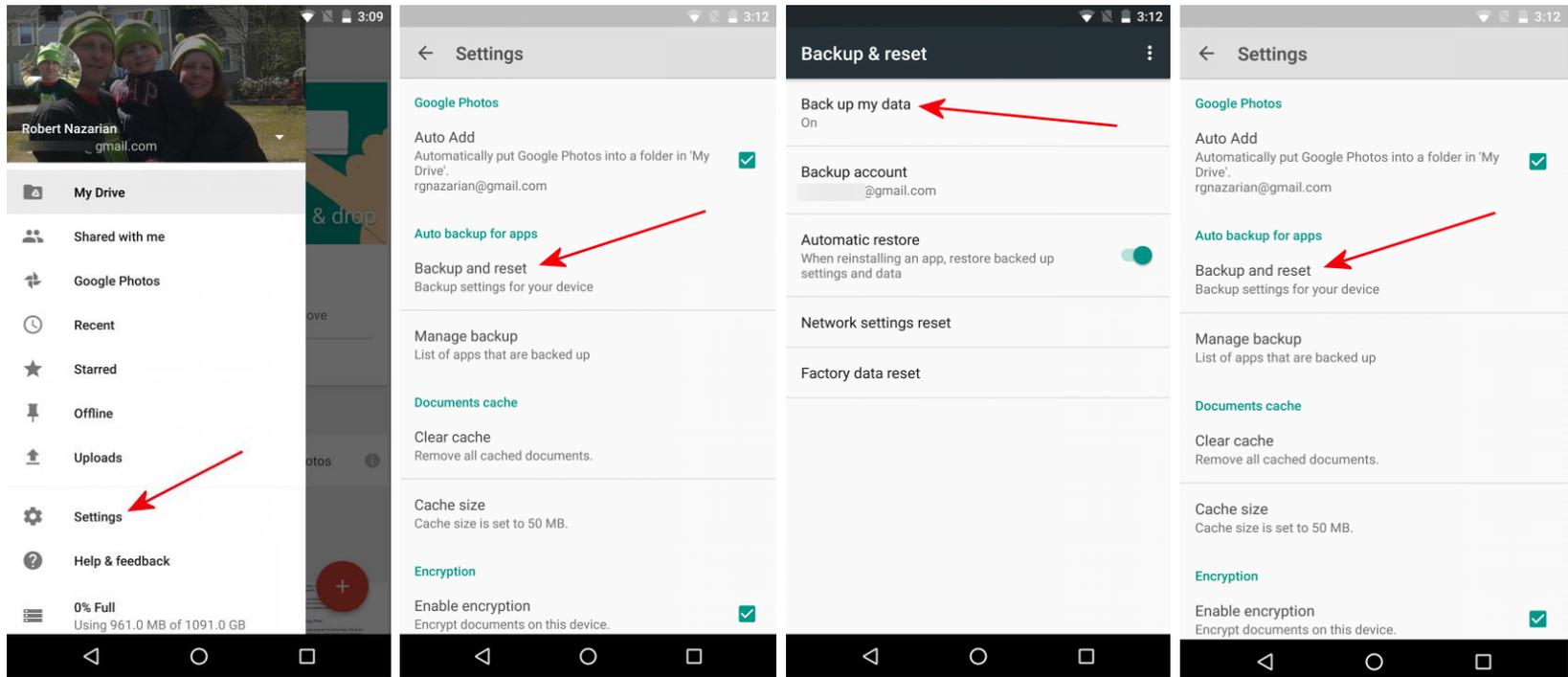
Select each app, like Contacts, and swipe on or off which third-party apps you want to grant access to



# IOS Security: Backup



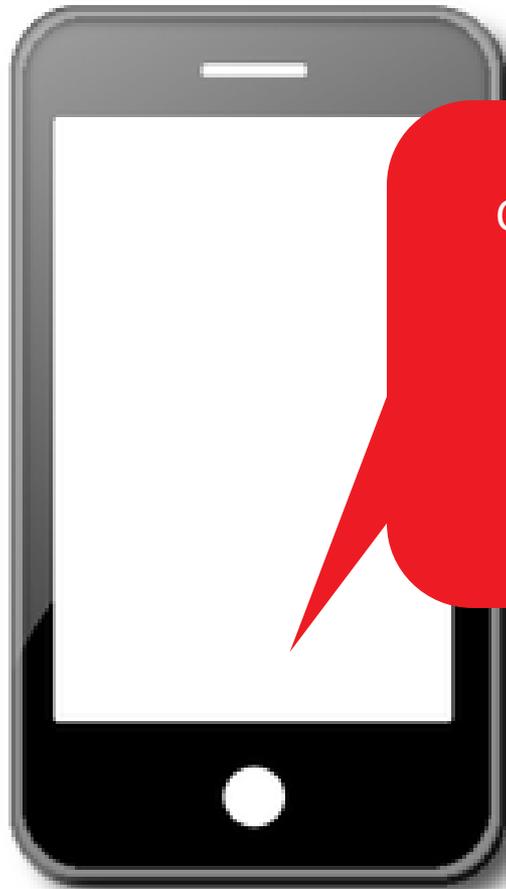
# Android Security: Backup





Mobile Security  
Other Threats

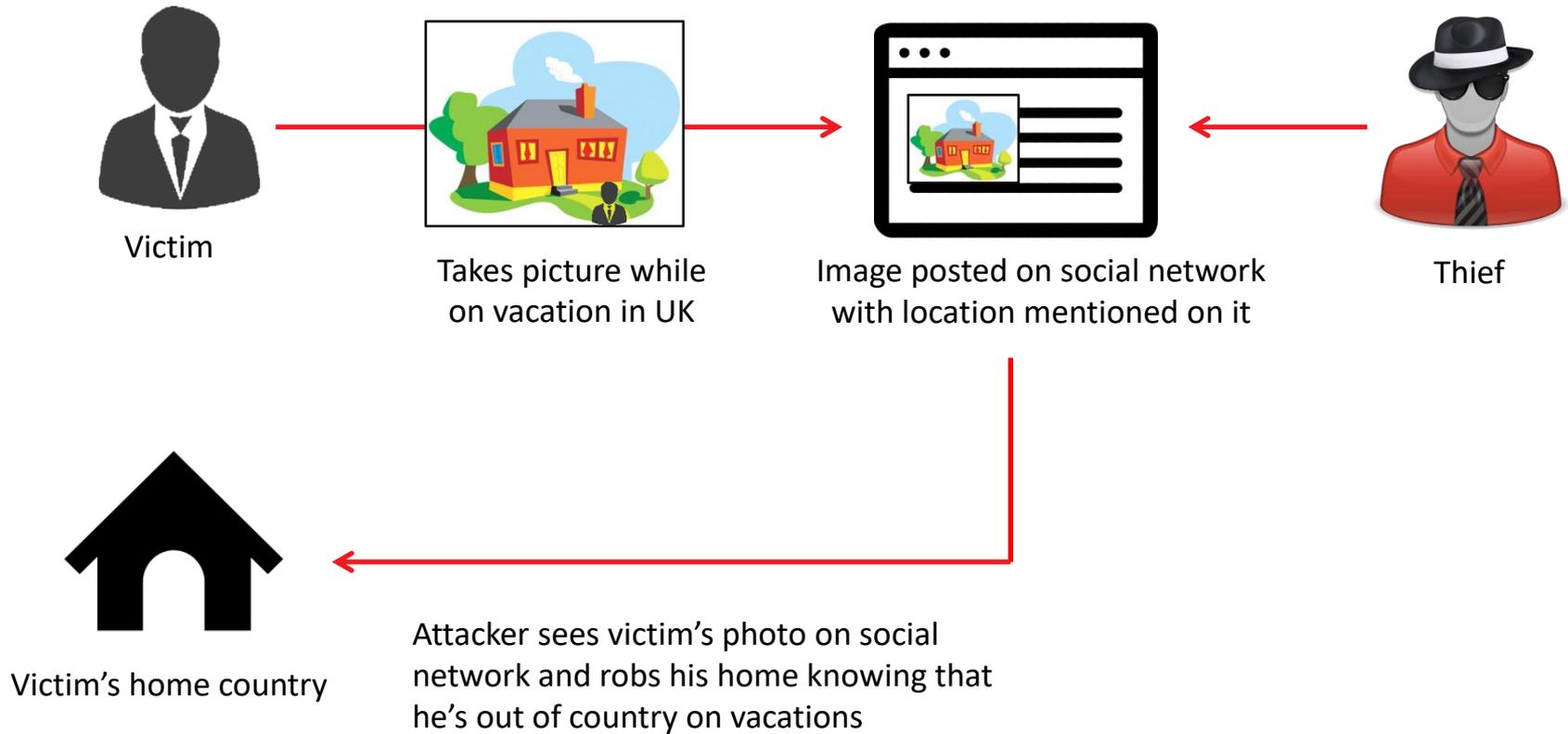
# SMS Scams Threat



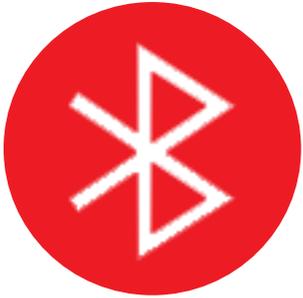
Congratulation Your number was  
selected in the annual lottery.  
You just won  
300,000 \$ Please call  
the number below to collect  
your money

**This is a lie.**

# Geo-location Threat



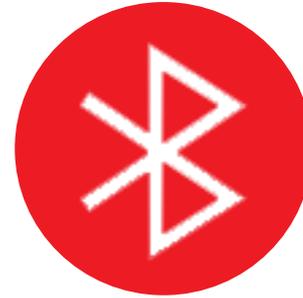
# Bluetooth & Wi-Fi



Bluetooth allows your phone to wirelessly communicate with other devices, such as your headphones, other mobiles or with your computer.



Disable both Bluetooth and Wi-Fi if and when not needed.



It is easy to exploit these functions to send malicious code.



Sensitive information may be intercepted by a sniffer when these functions are enabled.

# Antivirus



best free antivirus for android 2019



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About 73,800,000 results (0.61 seconds)

## According to TechRadar

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Avast  
Antivirus



Bitdefender  
Antivirus



AVG  
Technolo...



McAfee



Kaspersky



Sophos



Norton  
AntiVirus

## Best Android antivirus app of 2019

1. Avast Mobile Security. Gives you handy extras like a firewall and remote wipe. ...
2. Bitdefender **Antivirus Free**. A lightweight app from a trusted brand. ...
3. AVG. ...
4. McAfee Security & Power Booster **Free**. ...
5. Kaspersky Mobile **Antivirus**. ...
6. Sophos **Free Antivirus** and Security. ...
7. Norton Security and **Antivirus**. ...
8. Trend Micro Mobile Security & **Antivirus**.

# Questions

WHAT? HOW? WHEN?  
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