Everyday Cybersecurity

Hysun Chung (hysun@hysun.com)
LinkedIn: https://linkedin.com/in/hysun-c
X/Twitter: @azmaveth
Blog: https://azmaveth.com

Today’s Topics

- **Introduction**
  - Importance of smartphone privacy and security
  - Overview of potential risks
- **Basic Security Measures**
  - Strong passwords and PINs
  - Biometric security
  - Keeping software and apps updated
  - Device encryption
  - Physical device security
- **Data Privacy**
  - Understanding app permissions
  - Managing location services
  - Controlling ad tracking
  - Privacy settings on social media apps
  - Safe browsing practices

Importance of Smartphone Privacy and Security

- **Your smartphone: A treasure trove of personal information**
- **Privacy and security: Key to protecting your digital life**

Potential Risks

- Identity theft
- Financial fraud
- Data breaches
- Unauthorized access to personal information
- Location tracking
- Malware and viruses
- Everyone is a target (Yes, even you!)

Basic Security Measures

- Strong passwords and PINs
- Biometric security (fingerprint, face recognition)
- Keeping software and apps updated
- Device encryption
- Physical device security

Strong Passwords & PINs

- **Use at least 6 digits for PINs (more is better)**
- **Avoid obvious numbers (birthdays, address, etc.)**
- **For passwords, use a mix of:**
  - Upper and lowercase letters
  - Numbers
  - Special characters
- **Avoid using the same password across multiple accounts**
- **Consider using a password manager**

- **Demonstration: Setting up a strong password**

Biometric Security

- **What is biometric security?**
  - Fingerprint recognition
  - Face recognition
- **Benefits:**
  - Convenient and quick
  - Generally more secure than short PINs
  - Difficult to replicate or guess
- **Considerations:**
  - Not foolproof - can sometimes be tricked
  - May still need a backup PIN or password
- **Demonstration: Setting up fingerprint or face recognition**

Keeping Software and Apps Updated

- **Why updates are important:**
  - Fix security vulnerabilities
  - Improve performance
  - Add new features
- **What to keep updated:**
  - Operating system (iOS/Android)
  - Individual apps
- **How to update:**
  - Enable automatic updates
  - Check for updates manually
- **Demonstration: Checking for and installing updates**

Device Encryption

- **What is device encryption?**
  - Scrambles data to make it unreadable without the key
- **Why is it important?**
  - Protects your data if your phone is lost or stolen
  - Prevents unauthorized access to your information
- **How it works:**
  - Encrypts all data on your device
  - Decrypts data when you unlock your phone
- **Enabling encryption:**
  - Often on by default in newer phones
  - Can be turned on in settings for older devices
- **Demonstration: Checking encryption status and enabling it if necessary**

Physical Device Security

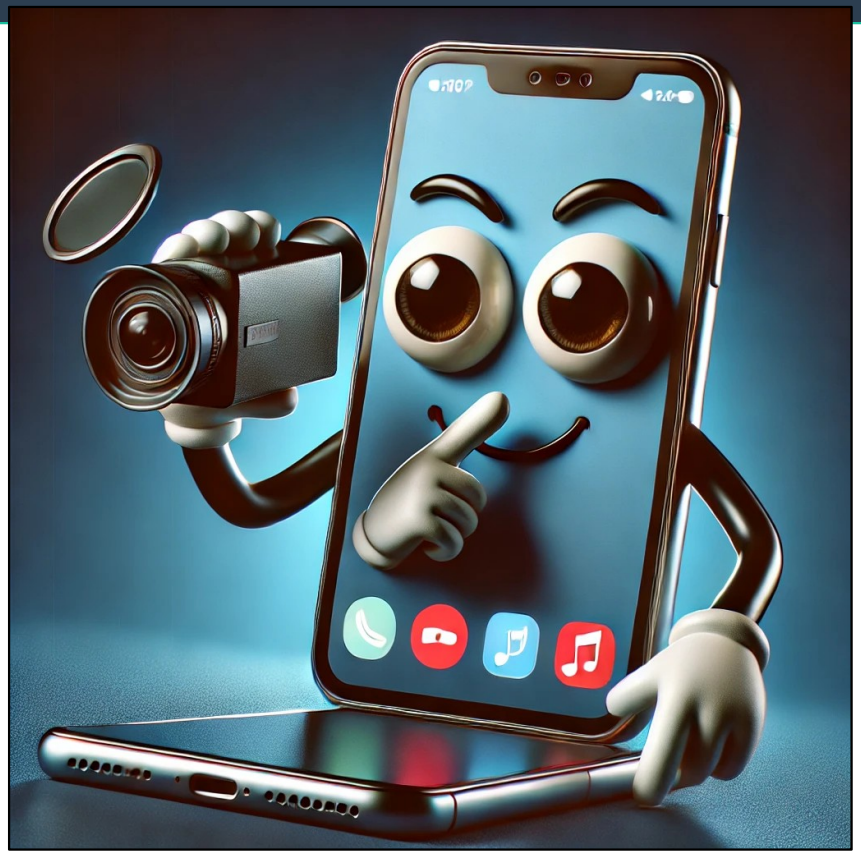
- Keep your device with you or in a secure location
- Be aware of your surroundings when using your phone in public
- Don't leave your phone unattended, even briefly
- Use "Find My Device" features
- Back up your data regularly
- Demonstration: Setting up "Find My Device"

Data Privacy

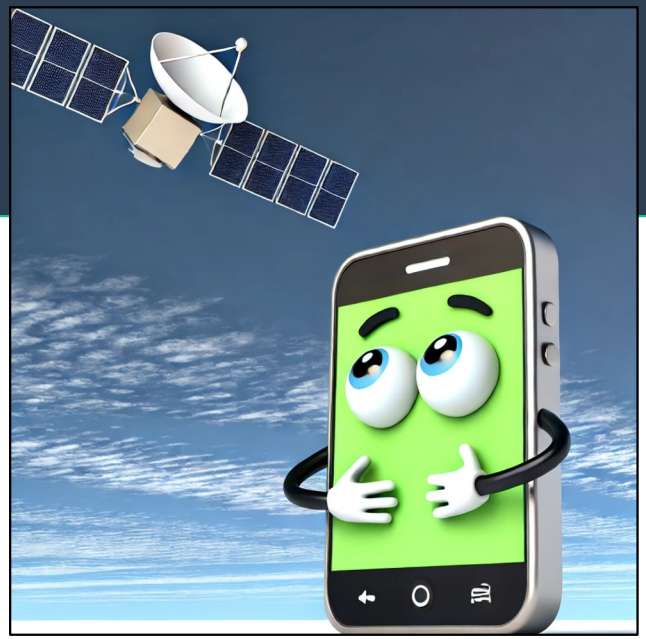
- **Key topics we'll cover:**
  - Understanding app permissions
  - Managing location services
  - Controlling ad tracking
  - Privacy settings on social media apps
  - Safe browsing practices
- **Why it matters:**
  - Protect your personal information
  - Control who sees your data
  - Prevent unwanted tracking

Understanding App Permissions

- **What are app permissions?**
  - Requests to access specific features or data on your phone
- **Common types of permissions:**
  - Camera
  - Microphone
  - Location
  - Contacts
  - Storage
- **Why permissions matter:**
  - Control what information apps can access
  - Protect your privacy and security
- **Demonstration: Reviewing and adjusting app permissions**

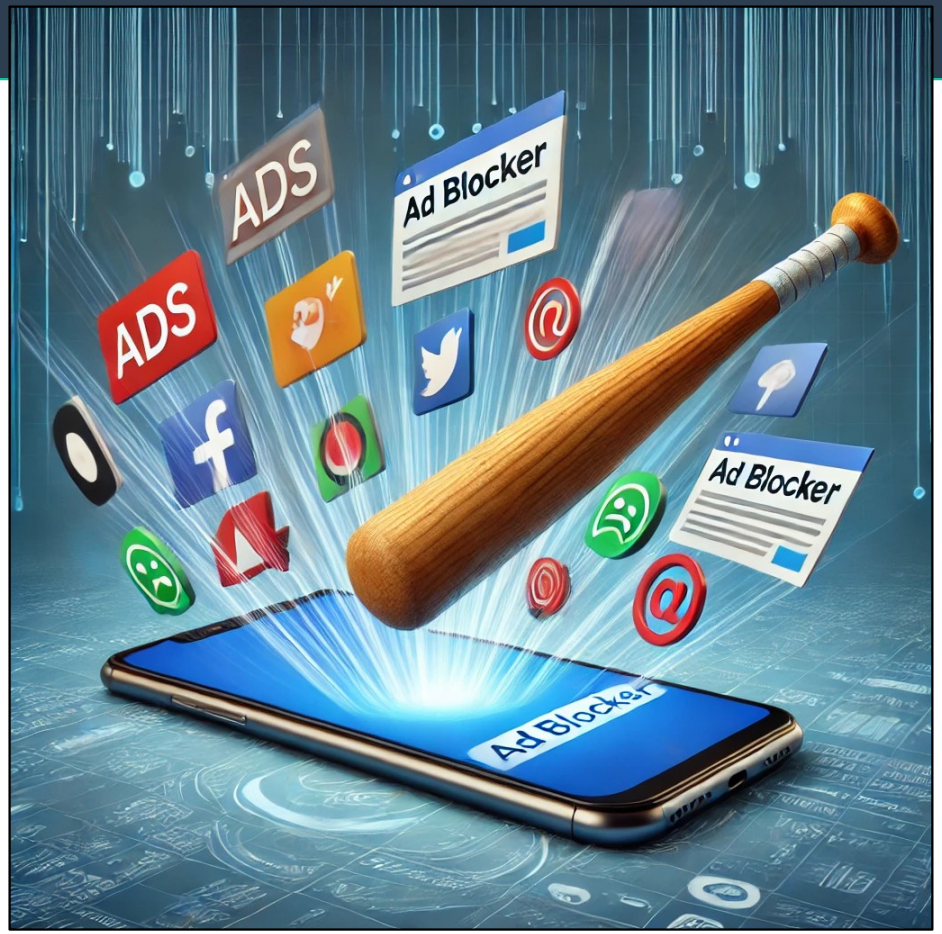


Managing Location Services



- **What are location services?**
  - Features that use your phone's location
- **Benefits of location services:**
  - Navigation and maps
  - Finding nearby businesses
  - Weather updates
- **Privacy concerns:**
  - Apps tracking your movements
  - Location history being stored
- **How to manage:**
  - Control which apps can access your location
  - Choose when apps can access location (always, while in use, never)
- **Demonstration: Adjusting location settings**

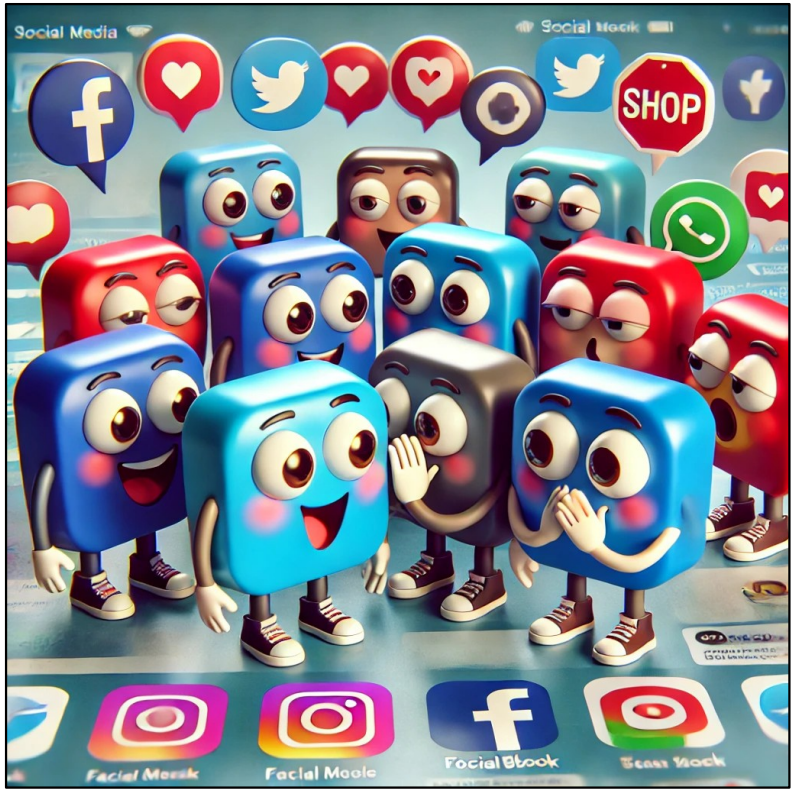
Controlling Ad Tracking



- **What is ad tracking?**
  - Collection of your online activity to show personalized ads
- **How it works:**
  - Apps and websites track your behavior
  - This data is used to create a profile of your interests
- **Privacy concerns:**
  - Extensive data collection about your habits
  - Potential for data breaches or misuse
- **How to limit ad tracking:**
  - Use built-in phone settings
  - Opt out of personalized ads
  - Use privacy-focused browsers and search engines
- **Demonstration: Adjusting ad tracking settings**

Privacy Settings on Social Media Apps

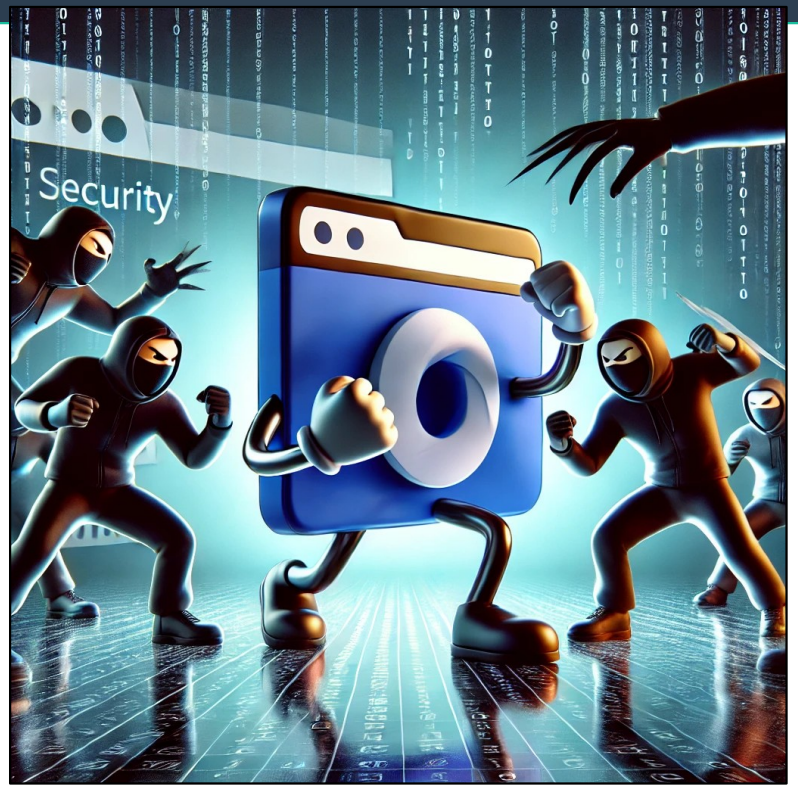
- **Why social media privacy matters:**
  - Control who sees your posts and information
  - Protect personal data from misuse
- **Key privacy settings to review:**
  - Profile visibility
  - Post audience
  - Friend/follower approvals
  - Data sharing with third-party apps
- **Common social media platforms:**
  - Facebook
  - Instagram
  - Twitter
- **Demonstration: Adjusting privacy settings on a popular platform**



Safe Browsing Practices

- **Use secure websites (look for "https" and padlock icon)**
- **Be cautious with public Wi-Fi**
- **Use private browsing mode when appropriate**
- **Clear browsing data regularly**
- **Be wary of phishing attempts**
- **Keep your browser updated**

- **Demonstration:**
  - Identifying secure websites
  - Enabling private browsing
  - Clearing browsing data



Questions?

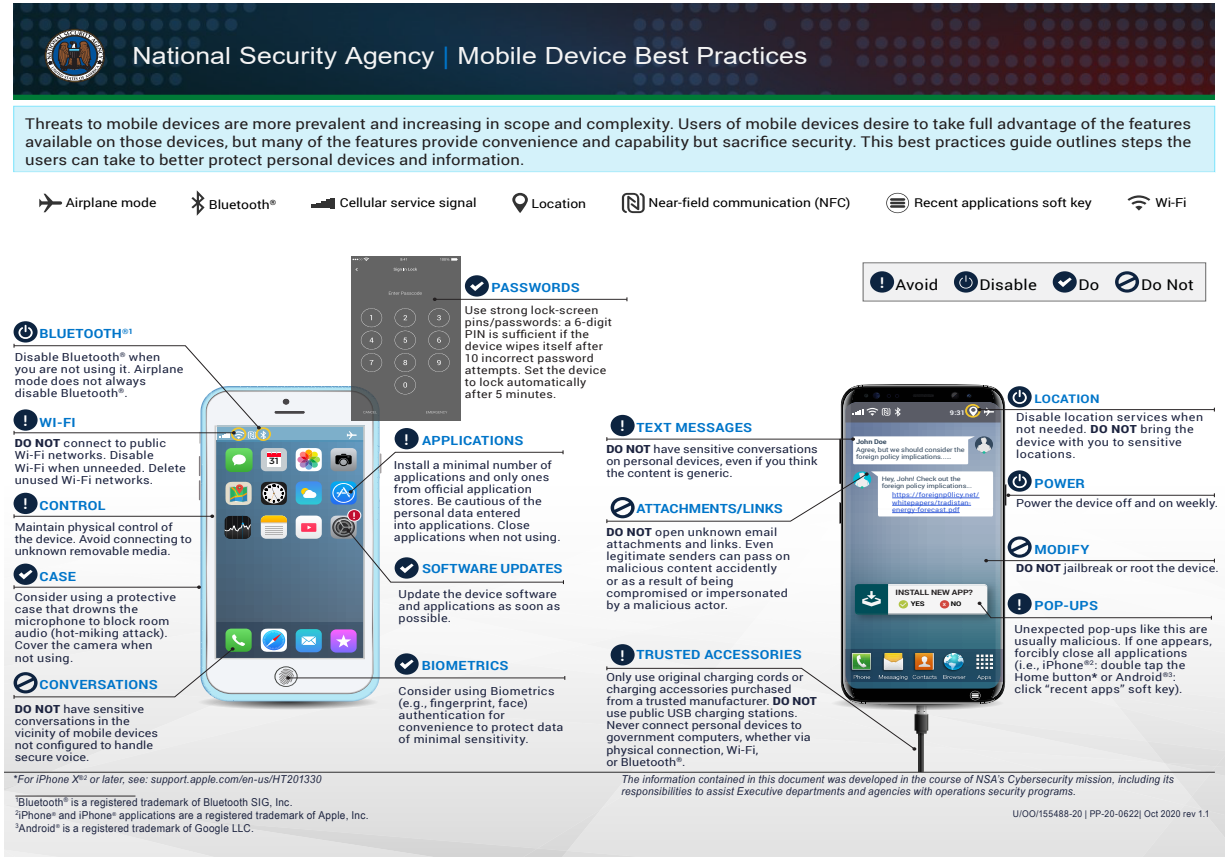
Q&A

- **Introduction**
  - Importance of smartphone privacy and security
  - Overview of potential risks
- **Basic Security Measures**
  - Strong passwords and PINs
  - Biometric security
  - Keeping software and apps updated
  - Device encryption
  - Physical device security
- **Data Privacy**
  - Understanding app permissions
  - Managing location services
  - Controlling ad tracking
  - Privacy settings on social media apps
  - Safe browsing practices

Resources

- **Youtube**
  - https://www.youtube.com/@NaomiBrockwellTV
  - https://www.youtube.com/@AllThingsSecured
- **Blogs/News**
  - https://www.privacytools.io/guides/category/smartphones
  - NSA's Mobile Device Best Practices

Mobile Device Best Practices from the NSA



Mobile Device Best Practices from the NSA