AMERICA'S SBDC DELAWARE Small Business Development Center

UNIVERSITY OF DELAWARE ECONOMIC INNOVATION & PARTNERSHIPS

Mobile Security

Protecting All Devices Equally!

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What Is Mobile Device Security

Mobile device security refers to the measures designed to protect sensitive information stored on and transmitted by laptops, smartphones, tablets, wearables, and other portable devices.

The main goal of mobile device security is to keep unauthorized users from accessing your business/personal devices and in turn keeping them out of your network.

This is just one aspect of a data protection policy

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Why Is Mobile Device Security Important

54%

Mobile Payments

Total annual retail e-commerce sales in the U.S. are made via a mobile device

70M

Lost Smartphones

Only 7% are ever recovered. One laptop is stolen every 53 seconds

61%

Mobile Web Traffic

Increased functionality of mobile devices has made them a cheaper and better alternatives to desktops

66%

Mobile Device Protection

34% do nothing at all, 11% use more than 4-digit passcode, 14% install antivirus apps, and 7% do more than just a lock screen

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Types of Mobile Security Malware

Mobile Spyware

Monitors and records information about a user's actions without the user's knowledge or permission.

Rooting Malware

Targets Android users to gain control over their root privileges, ultimately taking full control over the device.

Mobile Banking Trojans

Hacks into your mobile banking app to steal information and money from your bank account.

SMS Malware

Ability to send unauthorized text messages and calls while also intercepting text messages and calls.

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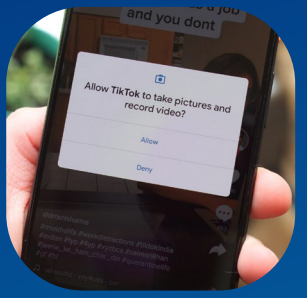
Mobile Security Threats

Phishing

Malware & Ransomware

Unsecured Wi-Fi

Outdated OS/App



Excessive App Permissions

Jailbroke or Root Phone

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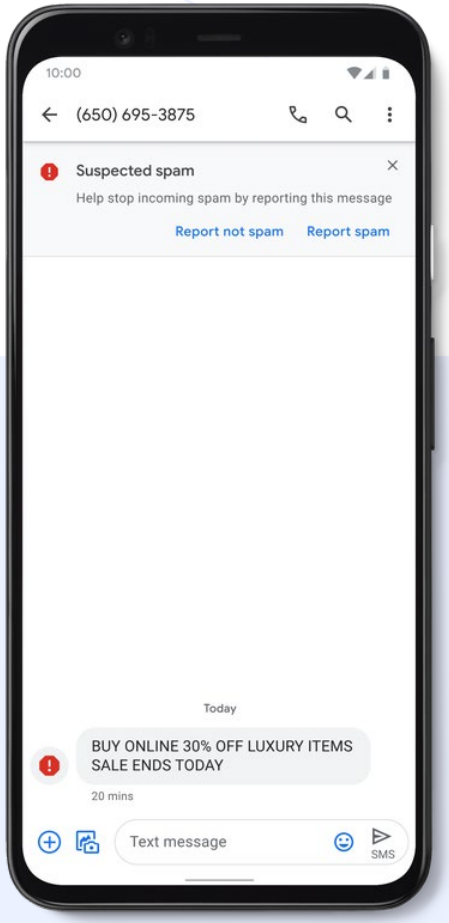
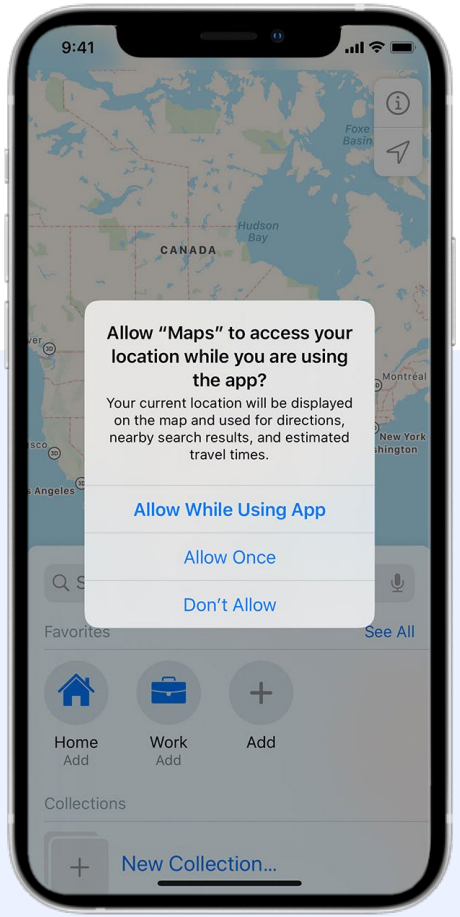
Mobile Security Examples

Unsecure Wi-Fi

SMS Phishing



App Permissions



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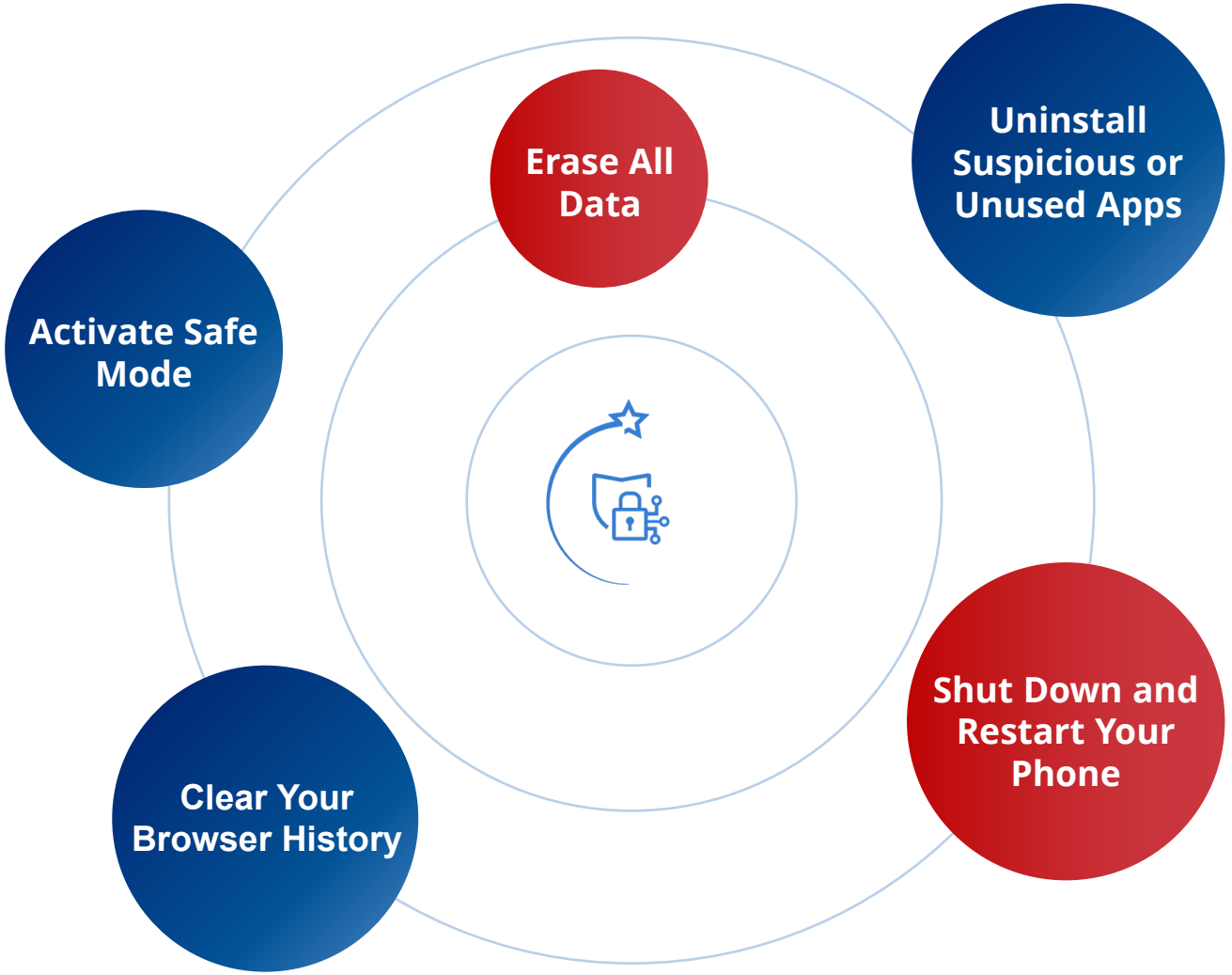
Signs of Compromise

- Overall reduced performance
- Unexplained charges to a phone bill
- A sudden increase in mobile data usage
- An abundance of pop-up advertisements
- Device battery draining faster than usual
- Unexplained apps downloaded onto your device

Steps To Remove Malware



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Safeguard Your Devices

Passcodes

Use 6 digits at the very least. It is better to use alphanumeric passwords like you would on your computer

Multi-Factor Authentication

Add additional login layers to your accounts with MFA Apps, SMS verification, and E-Mail verification

Auto-Lock

Set your device to auto lock after 30 sec. Additional measures include devices wiping

Biometrics

Use the biometrics that come native to your device as an added layer, FaceID, Fingerprint, retina

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Securing Your Connection

Avoid Public Wi-Fi

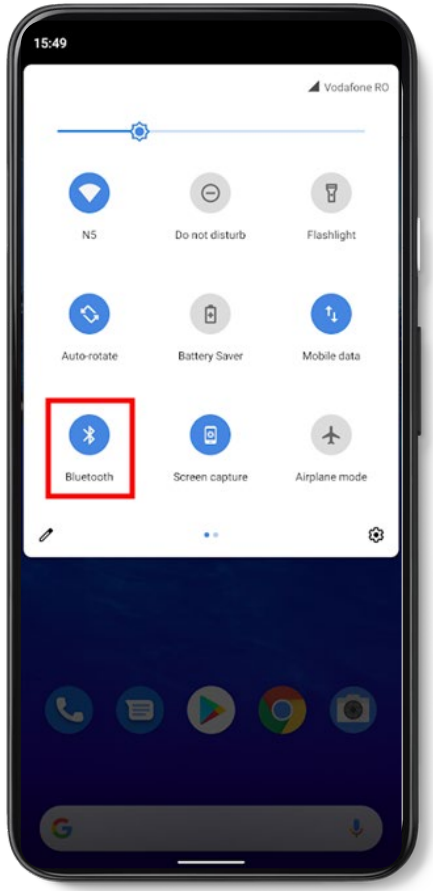
Do not connect to unsecure networks without proper security measures in place

Virtual Private Network

Whenever connecting to unknow networks use a VPN to encrypt the traffic

Bluetooth & Wi-Fi

Turn off Bluetooth and Wi-Fi on your devices when not using them



NordVPN®

ExpressVPN

CyberGhost

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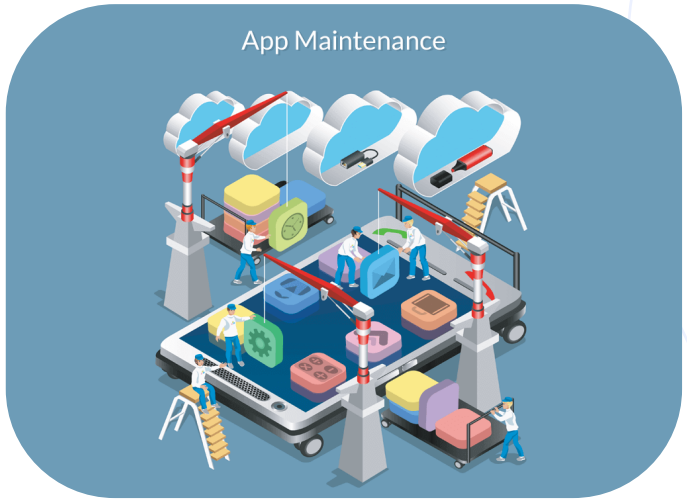
Device Maintenance



Updates

Apps and OS patching needs to be done regularly.

Backups

Run regular backups of devices to the cloud on to a dedicated machine

Encryption

Make sure your devices have some of encryption for data in transit and at rest

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Managing Applications

Don't Jailbreak

Avoid using your devices in ways outside of its manufactured OS. This will prevent you from creating holes in the system

Install Antivirus

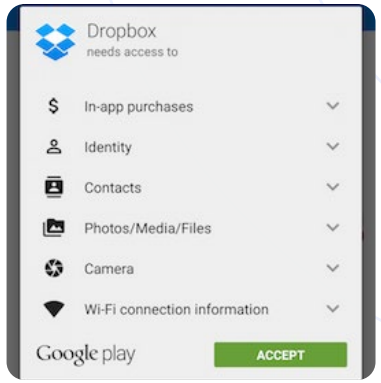
Protect your mobile devices just like any other computer

McAfee®

TREND MICRO

Check App Permissions

Not every app needs access to everything on your device. Beware apps tracking your location services and apps asking for access to things they do not need



Benefits of Mobile Device Management (MDM)

- Regulatory Compliance
- Remote Device Update
- Data Backup
- Security Policy Enforcement
- Support of "Bring Your Own Device"
- Application Control

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Thank You!

Questions?

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