Chapter 26

Maintaining and Securing Mobile Devices

Episode Maintaining Mobile Devices

title:

3.3 Given a scenario, troubleshoot common mobile OS and application security issues

Objective:

- Security concerns
 - o Developer mode
 - o Unauthorized/malicious application
 - App spoofing

- 0:32 Objective term- Code division multiple access (CDMA) phones
- 0:38 Objective term Global System for Mobile Communications (GSM)
- 1:27 Firmware
- 1:44 Baseband updates
- 1:50 Broadband updates and radio firmware updates
- 2:10 Objective term Preferred Roaming List (PRL)

- 2:42 Product Release Information (PRI)
- 4:05 International Mobile Subscriber Identity (IMSI)
- 4:14 International Mobile Equipment Identity (IMEI)
- 6:04 Objective term Virtual private network (VPN)
- 7:02 1. Give it a name
- 7:02 2. Set up VPN
- 7:02 3. Know the server IP address
- 7:21 Objective term Remote backups/syncing data

- 7:54 Objective term Antivirus/Anti-malware
- 9:12 Objective term Android Package Kit (APK) are for Android files
- 9:27 Objective term Android phones can be configured with root access for more (possibly unsafe) options. Similarly, you can jailbreak iPhones.
- 9:39 Objective term Trusted sources from the store are safer. Untrusted sources can introduce malicious applications or malware.
- 9:47 Objective term Firewalls

- Developer mode (macOS)
- Developer options (Android)
- App Spoofing

Troubleshooting Security Issues Verifying the operating system

Security elements

- Same features as other computing devices

Unauthorized or Malicious Apps Downloaded from an untrusted source

Keep issues or change to identifiers or symptoms(etc.)?

Episode **Mobile Synchronization** title:

Objective:

1.3 Given a scenario, configure basic mobile device network connectivity and provide application support.

•Mobile device synchronization

o Recognizing data caps

- 0:15 Objective term Synchronization
- 0:43 Objective term Contacts
- 0:57 Synchronization vs. backups
- 1:28 1. Synchronize to the desktop
- 1:59 iTunes
- 2:21 2. Synchronize to an automobile
- 2:54 3. Synchronize to the cloud

- 3:25 Objective term Types of data to synchronize
- 4:10 Bookmarks
- 5:03 Location data
- 5:26 eBooks
- 5:54 Social media data
- 6:31 Hootsuite
- 6:52 Applications
- 7:10 Software requirements to install
- Data cap

Data Cap

Represents a limit on data

- Amounts
 - Transferred
 - Stored
 - In a synchronized location
- Over a period
 - Downloads
 - Uploads
 - Synchronized
 - Back ups
 - Typically takes a month

Keep issues or change to identifiers or symptoms (etc.)?

Episode **Mobile Device Security** title:

Objective: 2.8 Given a scenario, apply common methods for securing mobile devices

- 0:49 Objective term Screen lock
- 1:27 Objective term Screen lock options can include facial recognition, PIN codes, fingerprints, patterns, or swipe
- 1:58 Objective term Face recognition
- 2:16 Objective term Multifactor authentication (MFA)/Two-factor authentication (2FA)

- 2:34 Objective term MFA can include requiring a voice call or code verification via SMS text
- 3:07 Objective term Failed login attempt restrictions
- 3:22 Objective term Some failed login security settings will remotely erase/wipe your device
- 3:34 Objective term Authenticator apps
- 4:43 Objective term Locator apps
- 5:36 Device lockout

L3s

- 5:51 Objective term Erase/remote wipe device
- 6:12 Objective term Mobile device management (MDM)
- 6:25 Objective term Bring Your Own Device (BYOD)
- Hardening
- Hardening configuration profile
- Endpoint security
- Mobile device management

Hardening

Eliminates vulnerabilities and reduces threat exposure

- Create a hardened device
 - Avoid granting apps root access
 - Use a secure browser for personal actions
 - Use encryption
 - Set up a secure lock screen
 - Backup to the cloud

Episode **Mobile Security Troubleshooting** title:

Objective: 2.1 Summarize various security measures and their purposes

- •0:50 Signal drop/weak signal/connectivity issues
- •1:46 Objective term Power drain, slower data speeds, high resource utilization
- •2:05 Objective term Run antimalware
- •2:27 Change your passwords if you think you've been hacked

- 2:43 Objective term Unintended Wi-Fi/Bluetooth connection
- 4:19 Leaked personal files/data
- 4:31 Unauthorized account access
- •4:40 Objective term Unauthorized location tracking
- 4:46 Unauthorized camera/microphone activation
- Security Assertion Markup Language (SAM-L)
- Single sign-on (SSO)
- •Just in time (JIT) access
- Privileged Access Management (PAM)
- •Identity and Access Management (IAM)
- Data Loss Prevention (DLP)

Episode Mobile Device Troubleshooting title:

Objective:

5.4 Given a scenario, troubleshoot common mobile device issues

3.2 Given a scenario, troubleshoot common mobile OS and application

- 0:30 Objective term Inaccurate/nonresponsive touchscreen or digitizer
- 1:06 Objective term Try to calibrate the touch sensors
- 1:22 Dim display
- 2:17 Cannot display to external monitor
- 2:58 No sound from speakers

- 3:25 Intermittent/no wireless connectivity
- 4:33 Objective term No Bluetooth connectivity
- 5:09 Objective term Apps fail to launch/update, log errors, crashing
- 6:03 Slow performance/slow to respond
- 6:22 Extremely short battery life
- 6:55 Objective term Overheating

- 7:19 Objective term (Overcharging overheating can lead to swollen batteries that can explode...watch out!)
- 7:43 Frozen system
- 8:35 System lockout
- Swollen battery
- 3:38 Digitizer issues