

CompTIA Mobile App Security+ - iOS Edition

Duration

Classroom Learning - 5 Day(s)

Overview

In this course, you will learn why it is critical to build security into your iOS apps, how to improve your programming processes to promote security, & how to provide countermeasures for the numerous threats to which an iOS app and its users are exposed.

Who Should Attend

Students taking this course are software developers who are experienced with mobile app development in iOS and want to improve the security of apps they develop. The student has experience developing iOS apps, and is familiar with the iOS SDK, development tools, and processes.

Prerequisite Comments

To ensure your success in this course you should have experience developing native apps in iOS using Xcode and the Objective-C programming language.

Outline

Lesson 1: The Rationale for iOS App Security

Identify Why Security is Necessary
Strengths and Weaknesses of the iOS Security Architecture

Lesson 2: The iOS Security Architecture

Strengths and Weaknesses of the iOS Security Architecture
iOS App Construction
iOS Vulnerabilities

Lesson 3: Employing Secure Mobile App Development Strategies

Follow App Security Best Practices
Identify Vulnerable Areas within a Mobile App
Write Secure Objective-C Code

Lesson 4: Accessing Local Processes and Devices Securely

Identify Threats to Access of Local Processes and Hardware
Select Countermeasures to Local Process and Hardware Threats
Implement Secure Access of Local Processes and Hardware

Lesson 5: Securing Data through Encryption

The Need for Encryption



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Select Appropriate Encryption to Secure Data
Develop an App that Secures Data through Encryption

Lesson 6: Accessing Local Storage Securely

Identify Threats to Local Storage
Select Countermeasures to Local Storage Threats
Implement Secure Access of Local Storage

Lesson 7: Communicating over Networks Securely

Identify Threats to Network Communication and Web Services
Select Countermeasures to Network Communication Threats
Implement Secure Network Communication

Lesson 8: Using the UIWebView Component Securely

Identify Countermeasures for UIWebView Component Threats
Implement UIWebView Security

Lesson 9: Protecting Credentials in Storage and Transit

Identify Countermeasures for Threats to Credentials
Implement Secure User Authentication
Implement Keychain

Lesson 10: Hardening Apps Against Attack

Threats Related to Reverse Engineering
Select Appropriate Countermeasures for Reverse Engineering Threats
Harden an Application