

Mobile Application Security Training – program

iOS program

Introduction to iOS security

1. A brief history of Apple systems
2. iPhone disk encryption
3. Application sandboxing
4. Jailbreaking

Security test report - now what?

1. Report structure
2. Vulnerability risk valuation
3. Description of the vulnerability
4. Terms of Use
5. Test case

Configuration of the test environment

1. Network configuration
2. HTTP / HTTPS proxy
3. macOS configuration
4. Adjusting the iPhone for testing

Vulnerability 1 - Unsafe data storage on device

1. Discussion on vulnerability
2. Reconstruction of the test case
3. Fix the vulnerability

Vulnerability 2 - No SSL certificate check

1. Discussion on vulnerability
2. Reconstruction of the test case
3. Fix the vulnerability

Vulnerability 3 - Incorrect data validation in URL schemes

1. Discussion on vulnerability
2. Reconstruction of the test case
3. Fix the vulnerability

Recommendation - Implement mechanisms that hinder reverse engineering

1. Discussion of the recommendation
2. Reconstruction of the test case
3. Implementation of the recommendation

Summary

Android program

Introduction to iOS security

1. A brief history of Apple systems
2. Authorization structure
4. Rooting

Security test report - now what?

1. Report structure
2. Vulnerability risk valuation
3. Description of the vulnerability
4. Terms of Use
5. Test case

Configuration of the test environment

1. Network configuration
2. HTTP / HTTPS proxy
3. Adaptation of Android and the workstation for testing

Vulnerability 1 - Unsafe data storage on device

1. Discussion on vulnerability
2. Reconstruction of the test case
3. Fix the vulnerability

Vulnerability 2 - No SSL certificate check

1. Discussion on vulnerability
2. Reconstruction of the test case
3. Fix the vulnerability

Vulnerability 3 - Invalid WebView configuration

1. Discussion on vulnerability
2. Reconstruction of the test case
3. Fix the vulnerability

Recommendation - Implement mechanisms that hinder reverse engineering

1. Discussion of the recommendation
2. Reconstruction of the test case
3. Implementation of the recommendation

Summary