

Lab #8 – Assessment Worksheet

Auditing a Wireless Network and Planning for a Secure WLAN Implementation

Course Name and Number: _____

Student Name: _____

Instructor Name: _____

Lab Due Date: _____

Overview

In this lab, you explored the Aircrack-ng suite, a set of WLAN auditing tools, which can be used to compromise WLAN security implementations. You downloaded a video that demonstrates the use of these tools in cracking passwords on a WLAN. This video showed how an unencrypted WPA key can be recovered from a weakly protected WLAN. You also used aircrack-ng to identify a WPA key, and you used the information from this lab to craft a WLAN security implementation that will mitigate any weaknesses and security threats commonly found in a WLAN implementation.

Lab Assessment Questions & Answers

1. What functions do these WLAN applications and tools perform on WLANs: airmmon-ng, airodump-ng, aircrack-ng, and aireplay-ng?
2. Why is it critical to use encryption techniques on a wireless LAN? Which encryption method is best for use on a WLAN (WEP, WPA, WPA2)?
3. What security countermeasures can you enable on your wireless access point (WAP) as part of a layered security solution for WLAN implementations?
4. Why is it so important for organizations, including homeowners, to properly secure their wireless network?
5. What risks, threats, and vulnerabilities are prominent with WLAN infrastructures?

6. What is the risk of logging onto access points in airports or other public places?
7. Why is it important to have a wireless access policy and to conduct regular site surveys and audits?
8. What is a risk of using your mobile cell phone or external WLAN as a WiFi connection point?