



MINISTRY OF COMMUNICATIONS
AND MULTIMEDIA MALAYSIA

NETWORK SECURITY ASSESSMENT

Level: Intermediate | **Duration: 2 days**

Attackers often take advantage of vulnerabilities in routers, wireless access point, firewalls, DNS, web and database servers, and other systems to gain access to the internal network of organization. Therefore, organization must secure their network infrastructure to mitigate risk from within and outside the network by conducting network security assessment.

Objectives

1. Understand the methodology and components in building secured network architecture
2. Learn network data flow
3. Identify industry best practices on secured network architecture
4. Understand the methodology used in conducting network security assessment and wireless network security
5. Identify common vulnerabilities found under network infrastructure and ways to mitigate these vulnerabilities.
6. Identify hands-on network security assessment using mostly open source distributions tools

Target Participants

1. Management, Administrator, IT Security personnel who are in charge of security in their organization
2. Related personnel or individuals who are interested to understand and learn with technical hands-on about network security assessment

Modules

1. Security Posture Assessment

- Introduction to Network Security
- Overview of Network Security Assessment Methodologies
- Vulnerability Investigation and Exploitation
- Common Vulnerabilities Found in Network Infrastructure and Mitigation
- Hands-on Activity

2. Wireshark Introduction

- Introduction to Wireshark
- Wireshark Functions
- Wireshark GUI
- Packet Capture

3. Exploitation

- Exploitation Fundamentals
- Client-Side Exploits
- Service-Side Exploits
- Local Exploits
- Attacks and Defenses
- Exploiting System
- Password Attacks

4. Wireless Network Assessment

- Introduction
- Information Gathering
 - Active/Passive Scanning
 - Wardriving
- Penetration Testing
- Encryption Cracking
- Vulnerabilities Testing
 - Attacks Execution
 - Sniffing
- Data/Traffics Analyzing
- Packets Analyzing

For additional information, please visit www.cyberguru.my. You can also contact us at training@cybersecurity.my or call at 03 8800 7999



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