Introduction

Vulnerability Assessment Course
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Agenda

- Administrivia
- Introductions
- Course Description
- Course Goals
- Prerequisites
- Course Outline
- Expectations
Administrivia

■ Please silence all cell phones
■ Avoid other distractions while in class
■ Do not practice what you learn here in any other network without appropriate permissions
■ Questions...
Introductions

- Name
- Relevant Experience
- Expectations
Course Description

■ Purpose
  - Overview of Vulnerability Assessment practices
  - Basic tools and techniques used to test technical security controls implemented within an information system or network infrastructure

■ Present a standard methodology for conducting vulnerability assessments

■ How to identify vulnerabilities in a networked environment; examine the configuration of networking devices, critical services, operating systems, and databases; and test the security controls implemented in a Web-based application

■ Course will also discuss the impact of vulnerabilities and recommended methods of mitigation

■ Course contains some hands-on exercises
Course Objectives

- Learning a general methodology for conducting assessments
- Scanning and mapping network topology
- Identifying listening ports/services on hosts
- Fingerprinting operating systems remotely
- Conducting automated vulnerability scans
- Auditing router, switch, and firewall security
- Auditing UNIX and Windows configuration and security
- Performing Web application and associated database security assessments
Prerequisites

Participants should have...

- A good understanding of the UNIX operating system
- A good understanding of Windows operating systems
- A good understanding of networking
- A good understanding of computer and/or network security
Target Audience

- People who wish to increase their understanding and skills in vulnerability assessment processes and techniques
# Day One - Monday

<table>
<thead>
<tr>
<th>Time</th>
<th>Subject</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>0830-0900</td>
<td>Introduction</td>
<td></td>
</tr>
<tr>
<td>0915-1000</td>
<td>Terms, Methods, Preparations</td>
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<tr>
<td>1015-1100</td>
<td>Findings</td>
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<td>1100-1200</td>
<td>Lunch</td>
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<tr>
<td>1200-1400</td>
<td>Tools</td>
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<td>1415-1630</td>
<td>Unix OS Assessment</td>
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# Day Two - Tuesday

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<tr>
<td>0830-1200</td>
<td>Windows OS Assessment</td>
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<tr>
<td>1200-1300</td>
<td>Lunch</td>
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<tr>
<td>1300-1630</td>
<td>Network Devices/Services</td>
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# Day Three - Wednesday

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<td>0830-1200</td>
<td>Applications Assessment</td>
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<td>1200-1300</td>
<td>Lunch</td>
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<tr>
<td>1300-1500</td>
<td>DB Assessment</td>
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<td>1515-1600</td>
<td>Best Practices</td>
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Expectations

■ A three-day course consisting of:
  – Lectures and discussion designed to introduce the conceptual approach to vulnerability assessment
  – Supporting laboratory time to introduce various tools and techniques used to identify common vulnerabilities and mis-configurations

■ Successful participation in this course requires the student to complete hands-on exercises

■ This is not a hacker’s course
Questions