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| --- | --- |
| Student Name | <Enter Name Here> |
| Activity Type | Guided Practice / Computer Lab |

## Instructions

Perform the Guided Practice per the instructions in your course. As you complete each lab, insert a screenshot of your results. Perform all the tasks shown below.

**Note: Some tasks in the labs are not completed in this class, instead they are completed in the associated lab class.**

**Only** provide screenshots for the tasks that specify a screenshot. There should be a total of **13** screenshots for this lab.

Complete the following lab tasks in the **Scanning Networks** ILab Module:

1. **Lab 1** - Perform host discovery.
   * **Task 1** - Perform host discovery using Nmap
     1. Screenshot step 11
2. **Lab 2** - Perform port and service discovery.
   * **Task 3** – Perform Port Scanning using sx Tool
   * **Task 4** – Explore various network scanning techniques using Nmap
   * **Task 5** - Explore various network scanning techniques using Hping3
     1. Screenshot step 16
3. **Lab 3** - Perform OS discovery.
   * **Task 2** - Perform OS discovery using Nmap Script Engine (NSE)
   * **Task 3** – Perform OS Discovery using Unicornscan
     1. Screenshot step 8
4. **Lab 4** - Scan beyond IDS and Firewall
   * **Task 1** - Scan beyond IDS/firewall using various evasion techniques
   * **Task 3** - Create custom UDP and TCP packets using Hping3 to scan beyond IDS/firewall
     1. Screenshot step 20
5. **Lab 5** - Perform network scanning using various scanning tools.
   * **Task 1** - Scan a target network using Metasploit
     1. Screenshot step 32

Complete the following lab tasks in the **Enumeration** ILab Module:

1. **Lab 1** - Perform NetBIOS enumeration.
   * **Task 3** - Perform NetBIOS enumeration using an NSE Script
     1. Screenshot step 9
2. **Lab 2** - Perform SNMP enumeration.
   * **Task 1** - Perform SNMP enumeration using snmp-check
   * **Task 3** - Perform SNMP enumeration using SnmpWalk
   * **Task 4** - Perform SNMP enumeration using Nmap
     1. Screenshot step 11
3. **Lab 3 -** Perform LDAP enumeration.
   * **Task 2** - Perform LDAP Enumeration using Python and Nmap
   * **Task 3** - Perform LDAP Enumeration using ldapsearch
     1. Screenshot step 6
4. **Lab 4** - Perform NFS enumeration.
   * **Task 1** - Perform NFS enumeration using RPCScan and SuperEnum
     1. Screenshot step 23
5. **Lab 5** - Perform DNS enumeration.
   * **Task 1** - Perform DNS enumeration using zone transfer
   * **Task 2** - Perform DNS enumeration using DNSSEC zone walking
   * **Task 3** - Perform DNS Enumeration using Nmap
     1. Screenshot step 9
6. **Lab 6** - Perform SMTP enumeration.
   * **Task 1** - Perform SMTP Enumeration using Nmap
     1. Screenshot step 9
7. **Lab 7** – Perform RPC, SMB, and FTP enumeration.
   * **Task 2** - Perform RPC, SMB, and FTP enumeration using Nmap
     1. Screenshot step 28
8. **Lab 8** - Perform enumeration using various enumeration tools.
   * **Task 3** - Enumerate information from Windows and Samba host using Enum4linux
     1. Screenshot step 20

Summary: As a result of this lab, I have learned:

* Include a few paragraphs summarizing the key skills you have acquired during this guided practice.