

# Network Penetration Testing

Network Penetration Testing is a critical skill for penetration testers and red teamers to master. Designed for experienced penetration testers, this course dives deep into the critical skills and techniques needed to identify and exploit vulnerabilities within complex network environments. This course offers an in-depth exploration of these advanced techniques, providing both theoretical knowledge and hands-on experience through the use of INE's labs.

Through a series of comprehensive videos and guided lab exercises, you will learn how to perform host discovery, port scanning, and service enumeration using advanced scanning techniques and tools like the Nmap Scripting Engine. You will also learn how to enumerate information from critical network protocols and services in Windows and Linux systems like SMB, NetBIOS, and SMTP to name a few. This course will also introduce you to Man-in-the-Middle (MITM) attacks where you will get an understanding of the principles and techniques behind ARP spoofing, NBT-NS poisoning, and SMB relaying. Finally, you will learn how to identify and exploit vulnerabilities in Windows and Linux systems for initial access and how to perform various post-exploitation tasks on these systems.



+ Add



INSTRUCTOR  
**Alexis Ahmed**

COURSE DURATION  
**19h 3m**

DIFFICULTY LEVEL  
**Professional**

COURSE FILES  
**INE-Network-Penetration-Testing-Co  
urse-File.zip**



Course Progress

Begin

## Welcome

Jump to category

### Introduction

Activities: 1

0/1 items finished

[Hide details](#)

Course Introduction  
9m 8s

Start video

## Host Discovery & Port Scanning

### Information Gathering

Activities: 2

0/2 items finished

[Hide details](#)

Active Information Gathering  
7m 13s

Start video

Test your knowledge: Active Information Gathering  
2 questions

Start quiz

### Networking Primer

Activities: 6

0/6 items finished

[Hide details](#)

Networking Fundamentals  
15m 34s

Start video

Test your knowledge: Networking Fundamentals  
3 questions

Start quiz

Network Layer  
31m 36s

Start video

Test your knowledge: Network Layer  
2 questions

Start quiz

Transport Layer  
37m 25s

Start video

Test your knowledge: Transport Layer  
2 questions

Start quiz

### Host Discovery

Activities: 9

0/9 items finished

[Hide details](#)

Network Mapping  
12m 58s

Start video

Test your knowledge: Network Mapping  
1 question

Start quiz

Host Discovery Techniques  
10m

Start video

Test your knowledge: Host Discovery Techniques  
1 question

Start quiz

Ping Sweeps  
23m 21s

Start video

Test your knowledge: Ping Sweeps  
1 question

Start quiz

Host Discovery with Nmap - Part 1  
26m 10s

Start video

Host Discovery with Nmap - Part 2  
23m 43s

Start video

Test your knowledge: Host Discovery with Nmap - Part 2  
2 questions

Start quiz

### Port Scanning

Activities: 8

0/8 items finished

[Hide details](#)

Port Scanning with Nmap  
36m 42s

Start video

Test your knowledge: Port Scanning with Nmap  
2 questions

Start quiz

Windows Recon: Nmap Host Discovery  
Cyber Security

Start lab

Service Version & OS Detection  
16m 12s

Start video

Test your knowledge: Service Version & OS Detection  
1 question

Start quiz

Nmap Scripting Engine (NSE)  
32m 18s

Start video

Test your knowledge: Nmap Scripting Engine (NSE)  
1 question

Start quiz

Scan the Server 1  
Cyber Security

Start lab

### Firewall/IDS Evasion

Activities: 2

0/2 items finished

[Hide details](#)

Firewall Detection & IDS Evasion  
26m 16s

Start video

Test your knowledge: Firewall Detection & IDS Evasion  
1 question

Start quiz

### Scan Timing & Performance

Activities: 1

0/1 items finished

[Hide details](#)

Optimizing Nmap Scans  
20m 17s

Start video

### Output & Verbosity

Activities: 3

0/3 items finished

[Hide details](#)

Nmap Output Formats  
21m 33s

Start video

Test your knowledge: Nmap Output Formats  
1 question

Start quiz

Windows Recon: SMB Nmap Scripts  
Cyber Security

Start lab

## Enumeration

### Enumeration Overview

Activities: 2

0/2 items finished

[Hide details](#)

Introduction to Enumeration  
5m 48s

Start video

Test your knowledge: Introduction to Enumeration  
1 question

Start quiz

### Windows Enumeration

Activities: 6

0/6 items finished

[Hide details](#)

SMB & NetBIOS Enumeration  
38m 18s

Start video

Test your knowledge: SMB & NetBIOS Enumeration  
3 questions

Start quiz

NetBIOS Hacking  
Cyber Security

Start lab

SNMP Enumeration  
16m 52s

Start video

Test your knowledge: SNMP Enumeration  
2 questions

Start quiz

SNMP Analysis  
Cyber Security

Start lab

### Linux Enumeration

Activities: 3

0/3 items finished

[Hide details](#)

Linux Service Enumeration  
32m 22s

Start video

Test your knowledge: Linux Service Enumeration  
2 questions

Start quiz

Linux Exploitation: Lab 1 - Remote Enumeration  
Cyber Security

Start lab

## Exploitation

### Windows Exploitation

Activities: 5

0/5 items finished

[Hide details](#)

SMB Relay Attack  
20m 8s

Start video

Test your knowledge: SMB Relay Attack  
1 question

Start quiz

DNS and SMB Relay Attack  
Cyber Security

Start lab

MSSQL DB User Impersonation to RCE  
14m 54s

Start video

MSSQL DB User Impersonation to RCE  
Cyber Security

Start lab

### Linux Exploitation

Activities: 2

0/2 items finished

[Hide details](#)

Linux Black-Box Penetration Test  
23m 31s

Start video

Linux Exploitation: Lab 3 - Remote Exploitation and Post Exploitation  
Cyber Security

Start lab

## Post-Exploitation

### Windows Post-Exploitation

Activities: 4

0/4 items finished

[Hide details](#)

Dumping & Cracking NTLM Hashes  
14m

Start video

Windows: NTLM Hash Cracking  
Cyber Security

Start lab

Windows Post-Exploitation Lab  
21m 12s

Start video

Post-Exploitation  
Cyber Security

Start lab

## Goodbye

### Conclusion

Activities: 1

0/1 items finished

[Hide details](#)

Course Conclusion  
5m 33s

Start video

## Additional Resource

### Lab

Activities: 1

0/1 items finished

[Hide details](#)

Bypassing AV  
Cyber Security

Start lab

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