NSE Coursework: Network attack and defence

Project Report

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April 23, 2024

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Chapter 1

Level 1: Build a network and test its connectivity
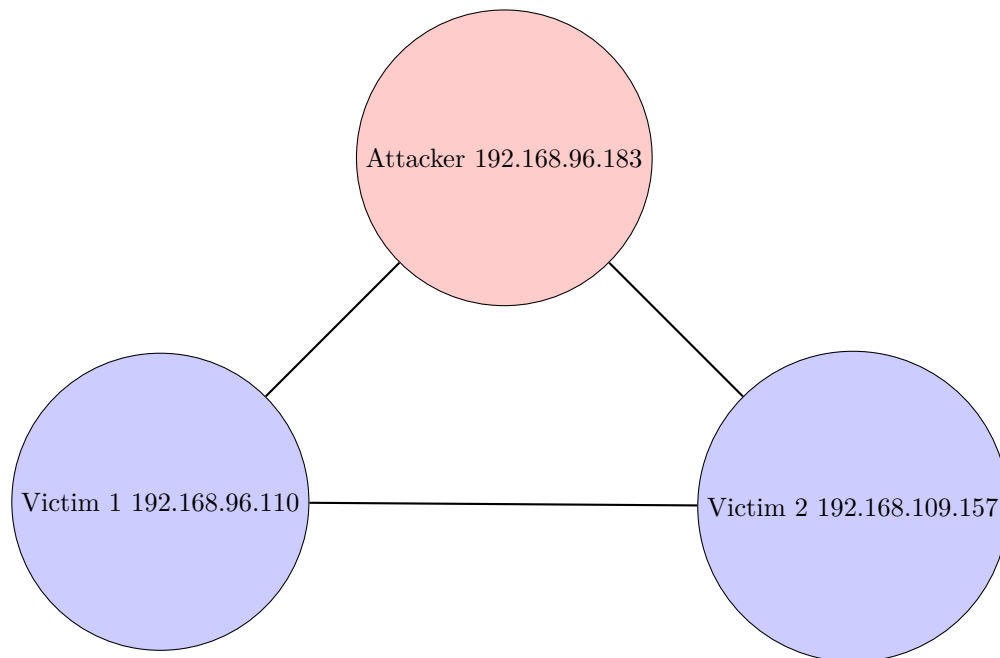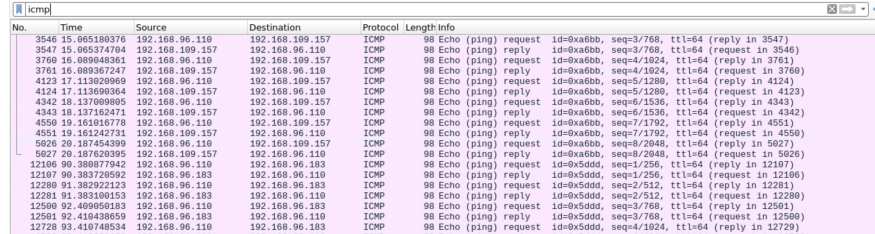
1.1 Network Topology
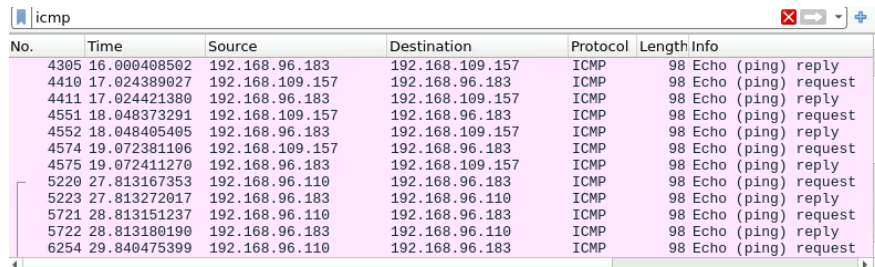

Figure 1.1: Network Topology

1.2   Connectivity Tests

The following screenshots demonstrate the successful ICMP ping tests between each machine, confirming that the machines are fully connected, as shown in Figure 1.1. The machines are also fully connected to the internet. We chose to use the `iperf` tool instead of just browsing, as it reliably generates similar traffic on demand, further enhancing our network's reliability.
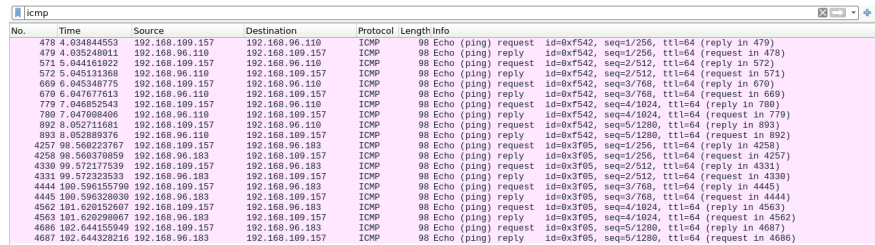

Figure 1.2: Pings from Attacker to Other Machines

Figure 1.3: Pings from Victim 1 to Other Machines

Figure 1.4: Pings from Victim 2 to Other Machines

Chapter 2

Level 2: Generate and analyse traffic on your network

Chapter 3

Level 3: Network attacks

Chapter 4

Level 4: Network defence

Chapter 5

Level 5: Critical evaluation and reflection