

Day 25: Exploitation on Metasploitable Machine

Date: July 17, 2025

Topics Covered:

- Introduction to Metasploitable Machine
 - Basic Exploitation using Metasploit
 - Nmap scanning
 - Wireshark tool
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Metasploitable Overview

- Metasploitable is a **UNIX-based** operating system specifically designed for vulnerability testing and exploitation practice.
 - It is completely **Command-Line Interface (CLI)** based.
 - When booted in a virtual environment (such as VMware), it runs multiple services, including **PostgreSQL**.
 - PostgreSQL is an open-source relational database management system.
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Accessing Metasploitable from Kali Linux

Use Kali Linux as the attacker machine. The following steps demonstrate a basic workflow:

1. **Start the Metasploit Framework**
`msfconsole -q`
2. **Scan Metasploitable for FTP (Port 21) Using Nmap**
`nmap -sV -p 21 <target_IP>`
3. **Start the Exploitation Console Again (If Closed)**
`msfconsole -q`

Use various **Metasploit modules** depending on the detected services and vulnerabilities.

Wireshark

Wireshark is a widely used network protocol analyzer. It is commonly utilized by Security Operations Center (SOC) analysts and penetration testers for:

- Capturing and analyzing live network traffic
 - Filtering traffic using custom expressions
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- Identifying suspicious activities such as FTP login attempts, DNS queries, and unencrypted HTTP requests

To launch Wireshark:

wireshark

Then select the appropriate network interface (e.g., eth0) for capturing traffic.

Vulnerable Websites for Practice

- textphp
- ocunefix
- Global ERP

These names refer to vulnerable web applications commonly found in lab setups or training networks used for ethical hacking and VAPT practice.