PENTESTER ACADEMYTOOL BOX PENTESTING

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TEAM LABSPENTES TO THE PENTESTER

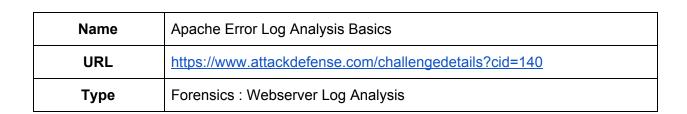
TEAM LABSPENTES TO THE PENTESTER

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Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic.

Question 1: How many requests were made for non-existent pages?

Answer: 229112

Solution:

Command: cat error.log | grep " File does not exist" | cut -d "]" -f4 | cut -d ":" -f2 | wc -l

student@attackdefense:~\$ cat error.log | grep " File does not exist" | cut -d "]" -f4 | cut -d ":" -f2 | wc -l 229112 student@attackdefense:~\$

Question 2: How many unique usernames were used to bruteforce the basic authentication protected page?

Answer: 75

Solution:

Command: cat error.log | cut -d "]" -f4 | cut -d ":" -f1 | grep user | cut -d " " -f3 | sort | uniq | wc -l

```
student@attackdefense:~$ cat error.log | cut -d "]" -f4 | cut -d ":" -f1 | grep user | cut -d " " -f3 | sort | uniq | wc -l student@attackdefense:~$ student@attackdefense:~$
```

Question 3: Create a list of all unique usernames used to bruteforce the basic authentication protected page?

Command: cat error.log | cut -d "]" -f4 | cut -d ":" -f1 | grep user | cut -d " " -f3 | sort | uniq > list

```
student@attackdefense:~$ cat error.log | cut -d "]" -f4 | cut -d ":" -f1 | grep user | cut -d " " -f3 | sort | uniq > list
student@attackdefense:~$ cat list
1502
ADMIN
Admin
Administrator
AdvWebadmin
Bobo
Cisco
Coco
Flo
Jetform
Joe
LDAP Anonymous
Manager
Moe
Polycom
QCC
```

Question 4: How many requests were made to perform directory traversal or Local File Inclusion attack? And, also list the files which attacker was trying to access.

Answer: 15

boot.ini, sam, config.dat, passwd, win.ini, vmlnventory.xml, dvr2.ini, shadow

Solution:

Command: grep "/\.\./\.\/" error.log

But this grep expression may not cover all, so we can use

Command: grep "Invalid URI" error.log

```
student@attackdefense:~$ grep "Invalid URI" error.log
[Wed Jun 20 09:17:32 2018] [error] [client 91.218.225.68] Invalid URI in request GET /../../../../../../../../../../etc/passwd HTTP/1.1
[Wed Jun 20 09:17:32 2018] [error] [client 91.218.225.68] Invalid URI in request GET /%2E%2E/%2E%2E/%2E%2E/%2E%2E/%2E%2E/windows/win.ini HTTP/1
wd HTTP/1.1
[Wed Jun 20 09:18:00 2018] [error] [client 91.218.225.68] Invalid URI in request GET /file/../../../../../../../etc/ HTTP/1.1
[Wed Jun 20 09:18:17 2018]
                     [error] [client 91.218.225.68] Invalid URI in request GET /../webserver.ini HTTP/1.1
[Wed Jun 20 09:18:24 2018] [error]
                           [client 91.218.225.68] Invalid URI in request GET ../../../../../../../../etc/* HTTP/1.1
[Wed Jun 20 09:18:24 2018]
                     [error] [client 91.218.225.68] Invalid URI in request GET ../../../../../../../../../etc/passw* HTTP/1.1
[Wed Jun 20 09:18:25 2018]
                     [error]
                           [client 91.218.225.68] Invalid URI in request GET /../config.dat HTTP/1.1
hostd/vmInventory.xml HTTP/1.1
[Wed Jun 20 09:24:03 2018] [error] [client 91.218.225.68] Invalid URI in request GET /../../windows/dvr2.ini HTTP/1.1
[Wed Jun 20 09:24:03 2018] [error] [client 91.218.225.68] Invalid URI in request GET /htdocs/../../../../../../../../../../../etc/passwd HTTP/1
shadow HTTP/1.1
student@attackdefense:~$
```

And the total count will be 15

Command: grep "Invalid URI" error.log | wc -l

Question 5: How many URLs were requested in path bruteforcing attack?

Answer: 229112

Solution:

Command: grep "File does not exist" error.log | wc -l

```
student@attackdefense:~$ grep "File does not exist" error.log | wc -l
student@attackdefense:~$
student@attackdefense:~$
student@attackdefense:~$ grep "File does not exist" error.log | head -10
[Sat Dec 12 19:02:36 2015] [error] [client 191.182.199.16] File does not exist: /var/www/www.almhuette-raith.at/templates/_system/css/general.c
[Sat Dec 12 19:44:06 2015] [error] [client 188.45.108.168] File does not exist: /var/www/www.almhuette-raith.at/templates/_system/css/general.c
[Sat Dec 12 19:44:15 2015] [error] [client 188.45.108.168] File does not exist: /var/www/www.almhuette-raith.at/favicon.ico
                                     [client 157.55.39.3] File does not exist: /var/www/www.almhuette-raith.at/icons/text.gif
[Sun Dec 13 01:01:19 2015] [error]
                                     [client 212.95.7.131] File does not exist: /var/www/www.almhuette-raith.at/templates/_system/css/general.css
[client 40.77.167.66] File does not exist: /var/www/www.almhuette-raith.at/apache-log/error.log.44.gz
[Sun Dec 13 11:28:41 2015] [error]
[Sun Dec 13 12:05:25 2015] [error]
[Sun Dec 13 15:56:36 2015] [error] [client 185.104.219.254] File does not exist: /var/www/www.almhuette-raith.at/apache-log/access.log.69.gz
                             [error]
[Sun Dec 13 16:14:58 2015]
                                     [client 157.55.39.8] File does not exist: /var/www/www.almhuette-raith.at/apache-log/error.log.55.gz
[Sun Dec 13 18:29:14 2015] [error] [client 188.23.50.138] File does not exist: /var/www/www.almhuette-raith.at/templates/_system/css/general.cs
[Sun Dec 13 18:29:18 2015] [error] [client 188.23.50.138] File does not exist: /var/www/www.almhuette-raith.at/favicon.ico
```

Question 6: Create a list of all unique URLs used during the path bruteforcing.

Solution:

Command: grep "File does not exist" error.log | cut -d "]" -f4 | cut -d ":" -f2 | sort | uniq > list

```
student@attackdefense:~$ grep "File does not exist" error.log | cut -d "]" -f4 | cut -d ":" -f2 | sort | uniq > list
student@attackdefense:~$
student@attackdefense:~$ cat list | head -10
   /bin/public_html
   /home/ftp/public_html/
   /nonexistent/public_html/etc/passwd
   /root/public_html/
   /var/www/www.almhuette-raith.at/
   /var/www/www.almhuette-raith.at/ .php
   /var/www/www.almhuette-raith.at/ /
   /var/www/www.almhuette-raith.at/ -
   /var/www/www.almhuette-raith.at/ -.php
   /var/www/www.almhuette-raith.at/ -.php
   /var/www/www.almhuette-raith.at/ -/
student@attackdefense:~$
```



Question 7: Print the super-set of all types of errors present in the log file?

Answer:

- user X not found
- no acceptable variant
- script not found or unable to stat
- Invalid URI in request
- client denied by server configuration
- File does not exist
- Invalid Content-Length

Solution:

The following command can be used to sort and remove duplicates upto some extent. But, then either you have to check the different logs manually or using other commands.

Command: cat error.log | cut -d "]" -f4 | cut -d ":" -f1 | sort | uniq