



LAB 02 Reconnaissance

TPAS

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Target

The target domain for this assignment is oculus.com

1. Task 1 - Email Reconnaissance

1.1. Email Service Provider (ESP)

Running whois command didn't give any information about the ESP.

Using *dig*: Gathered two answers which revealed MX domains associated with "Proofpoint" services.

Figure 1: MX domains

Using MXToolBox: Found "Proofpoint" to be the ESP for the target.

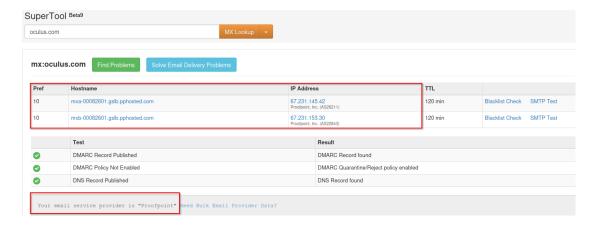


Figure 2: MX domains and ESP

1.2. Configuration



Figure 3: Test on the first mail server

Figure 4: Test on the second email server

spf:oculus.com Category Host SPF Record found More Info spf oculus.com 0 oculus.com No deprecated records found More Info spf **②** spf oculus.com Less than two records found More Info 0 No items after 'ALL'. More Info spf oculus.com The record is valid More Info **②** spf oculus.com 0 Number of included lookups is OK More Info spf oculus.com **②** oculus.com No type PTR found More Info oculus.com Number of void lookups is OK More Info spf More Info oculus.com Number of MX Resource Records is OK No Null DNS Lookups found spf oculus.com More Info

Figure 5: SPF records information for oculus.com





The email provider appears to be well configured. The assessments ran confirmed no issues on SMTP and SPF. There have been no SPF records on each the MX hosts however if i looked for SPF on domain oculus.com I became capable of discover the existence of records.

We can see that they also have a DMARC record published.

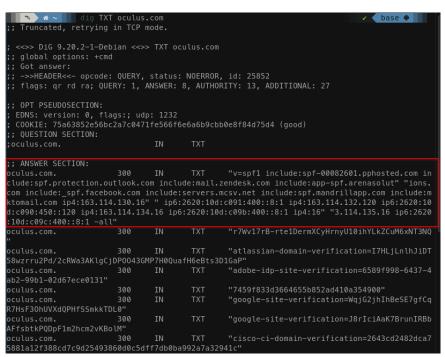


Figure 6: dig for type TXT

2. Task 2 - Passive Subdomain Enumeration

Used subfinder and assetfinder as showed in the following figures:



Figure 7: subfinder tool

Figure 8: assetfinder tool

The file subs.txt with all the unique enumerated subdomains is included in the submitted zip.

3. Task 3 - IP Tracking

Subject chosen as subdomain: auth.oculus.com.

Executing the traceroute on the mentioned subdomain gets us the following figure:

```
e to auth.oculus.com (157.240.212.50), 30 hops max, 60 byt
58.212.253 (192.168.212.253) 3.823 ms 3.545 ms 3.897 ms
                                                                                            4.26/ ms /3.608 ms
is po201.asw01.lis1.tfbnw.net (157.240.124.78) 73.543 ms 73.472 ms
.lis1.tfbnw.net (129.134.88.124) 73.344 ms psw03.lis1.tfbnw.net (129.134.87.55) 73.266 ms
```

Figure 9: traceroute auth.oculus.com

Then we use the https://www.ip-tracker.org to track the location associated to with all the IPs from the trace.

The route resulting from the trace follows the order:

Private IP Address > Lisboa > US > Lisboa

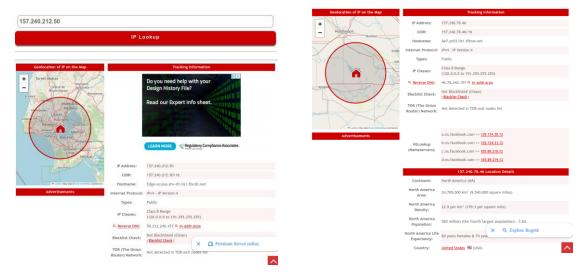


Figure 10 Figure 11

4. Task 4 - Active http and https Services

To remove subdomains that were outside of scope, it was used the command grep, and a new subs_edit.txt was generated.

```
grep -v -e 'answers.oculus.com' -e 'forums.oculus.com' -e 'suppor t.oculus.com' subs.txt > subs_edit.txt

Figure 12
```

Then httprobe was used, saving all the URLs in the file urls.txt.

```
~ > > ~/Doc/T/Lab2 cat subs_edit.txt | httprobe | >> urls.txt
```

Figure 13

5. Task 5 - URL Scanning

Many of the URLs found were deprecated links or simply redirects. I ran the nuclei for the target:

https://npm.developer.oculus.com

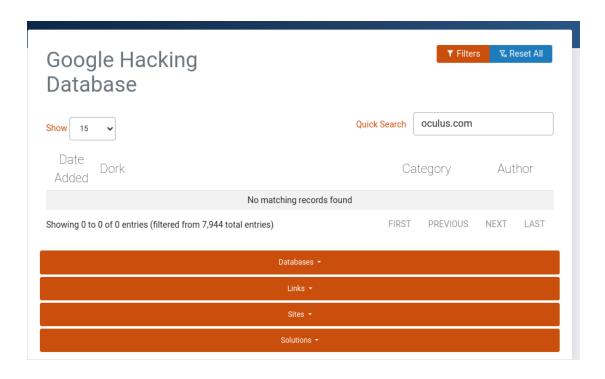
Figure 14

Nuclei detected several JavaScript files on the target missing Subresource Integrity (SRI) checks and a generic Nginx Web Application Firewall (WAF) was detected.

6. Task 6 - Special tasks

6.1. Google Dorks

By searching oculus.com on the Google Hacking Database, there was no dork published.



I tried running some google dorks that would make sense for the url but I didn't get any results.

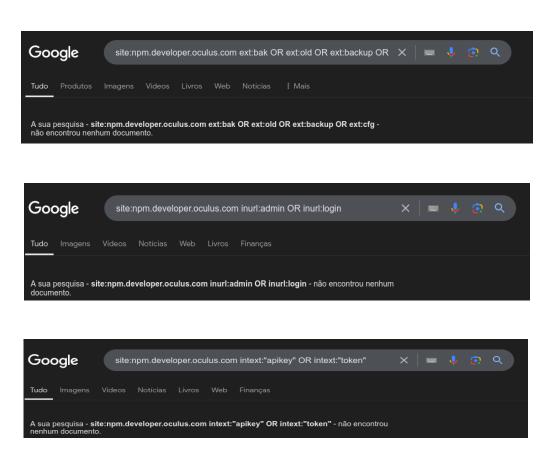


Figure 15

6.2. Sensitive endpoints

Unfortunatly, the findings of task 5 don't seem to be relevant enough or sensitive enough to explore deeper. The dorks didn't produce any relevant or sensitive information either.