1. DNS

a. ADDR IPV4 of piosky.fr

```
(tiziano® kali)-[~]

dig plosky.fr -4

; <<>> DiG 9.16.15-Debian <<>> plosky.fr -4

;; global options: +cmd

;; Got answer:

;; —>>HEADER«— opcode: QUERY, status: NOERROR, id: 62905

;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 2, ADDITIONAL:

;; OPT PSEUDOSECTION:
;; EDNS: version: 0, flags:; udp: 4096
;; QUESTION SECTION:
;plosky.fr. IN A

;; ANSWER SECTION:
plosky.fr. 2049 IN A 51.15.248.243
```

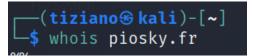
By tapping the command **dig domainName -4** we obtain the IPV4 address of the domain name "piosky.fr": 51.15.248.243

b. ADDR IPV4 of google.fr

```
Actions Edit View Help
;; \rightarrow HEADER \leftarrow opcode: QUERY, status: NOERROR, id: 3285 ;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 4, ADDITIONAL: 9
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 4096
;; QUESTION SECTION:
;google.fr.
;; ANSWER SECTION:
google.fr.
                                                    IN
                                                                              142.250.74.227
;; AUTHORITY SECTION:
google.fr.
                                                                              ns4.google.com.
google.fr.
google.fr.
                                                    IN
IN
IN
                                                                 NS
NS
                                                                              ns3.google.com.
ns1.google.com.
ns2.google.com.
                                       282
google.fr.
```

By tapping the command **dig domainName -4** we obtain the IPV4 address of the domain name "google.fr": 142.250.74.727

c. Registrar of piosky.fr



registrar: OVH

The command **whois domainName** prints the registrar name of the domainName

PRATICAL WORK 1: NARDONE - ANITER

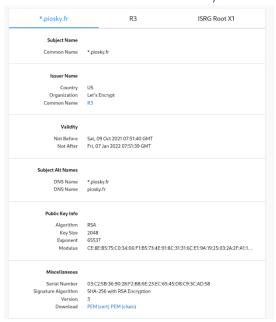
d. Host company of piosky.fr

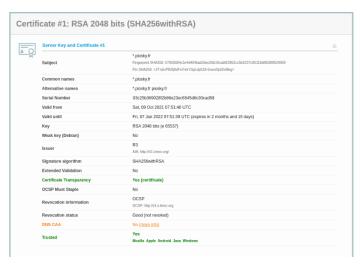
To find the host company of the domain name "piosky.fr" we can use the following command: dmitry domainName | grep descry

And we discover that Scaleway is actual company which host the domain name piosky.fr

2. OSINT

a. Certificate Authority



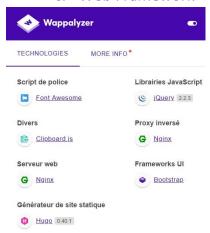


Let's Encrypt is the Authority which delivered the certificate

b. Vulnerabilities about the certificate

There is no vulnerabilities because SHA-256 with RSA-2048 Encryption is not a certificate hashing algorithm

c. Web Framework



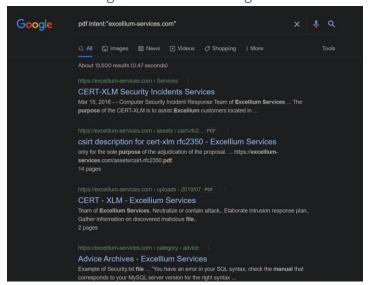
d. Sub domains



The search took more than 30 minutes because of a network problem

PRATICAL WORK 1: NARDONE - ANITER

e. Google search with Google Dork



pdf intent:"excellium-services.com"

f. Email address

anthony.maia.pro@gmail.com (found on Microsoft teams)

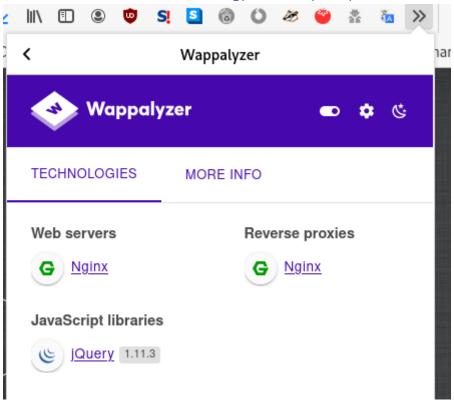
3. MAPPING

a. Services exposed by piosky.fr

```
51.15.248.243
Starting Nmap 7.91 ( https://nmap.org ) at 2021-10-22 11:54 CDT
Nmap scan report for 243-248-15-51.instances.scw.cloud (51.15.248.243)
Host is up (0.028s latency).
Not shown: 991 closed ports
PORT
         STATE SERVICE
                             VERSION
21/tcp
          open tcpwrapped
         open ssh
                             OpenSSH 7.6p1 Ubuntu 4ubuntu0.5 (Ubuntu Linux; protocol 2.0)
         open http
open tcpwrapped
80/tcp
                             nginx
82/tcp
84/tcp open tcpwrapped
443/tcp open ssl/http
                            nginx
554/tcp open rtsp?
1723/tcp open tcpwrapped
5060/tcp open sip?
No exact OS matches for host (If you know what OS is running on it, see https://nmap.org/submit/ ).
TCP/IP fingerprint:
OS:SCAN(V=7.91%E=4%D=10/22%OT=22%CT=1%CU=36744%PV=N%DS=2%DC=I%G=Y%TM=6172ED
OS:80%P=x86_64-pc-linux-gnu)SEQ(SP=11%GCD=FA00%ISR=9C%TI=I%CI=RD%II=I%SS=S%
OS:TS=U)OPS(01=M5B4%02=M5B4%03=M5B4%04=M5B4%05=M5B4%06=M5B4)WIN(W1=FFFF%W2=
OS:FFFF%W3=FFFF%W4=FFFF%W5=FFFF%W6=FFFF)ECN(R=Y%DF=N%T=41%W=FFFF%O=M5B4%CC=
OS:N%Q=)T1(R=Y%DF=N%T=41%S=O%A=S+%F=AS%RD=0%Q=)T2(R=Y%DF=N%T=100%W=0%S=Z%A=
OS:S%F=AR%O=%RD=0%Q=)T3(R=Y%DF=N%T=100%W=0%S=Z%A=S+%F=AR%O=%RD=0%Q=)T4(R=Y%
OS:DF=N%T=100%W=0%S=A%A=Z%F=R%O=%RD=0%Q=)T5(R=Y%DF=N%T=100%W=0%S=Z%A=S+%F=A
OS:R%O=%RD=0%Q=)T6(R=Y%DF=N%T=100%W=0%S=A%A-Z%F=R%O=%RD=0%Q=)T7(R=Y%DF=N%T=
OS:100%W=0%S=Z%A=S%F=AR%O=%RD=0%Q=)U1(R=Y%DF=N%T=3D%IPL=148%UN=0%RIPL=G%RID
OS:=G%RIPCK=G%RUCK=G%RUD=G)IE(R=Y%DFI=S%T=25%CD=S)
Network Distance: 2 hops
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 165.16 seconds
```

With the command nmap -sV -O IPADRR we can see all services used by piosky.fr

b. Web server's technology used on piosky.fr



To gather information about the technology used on the web server, we can use the plugin Wappalyzer, thus the technology used is Nginx

c. Operating system behind piosky.fr

To know which OS is behind piosky.fr, we still can use the **nmap** command as above, thus we understand that the OS is Ubuntu

4. ROOTME

a. Weak password challenge

Bien joué, vous pouvez utiliser ce mot de passe pour valider le challenge

Well done, you can use this password to validate the challenge

PRATICAL WORK 1: NARDONE - ANITER

The solution was to fill the form by tapping "admin" as username and "admin" as password

b. Install phpBB

▲ Not secure | challenge01.root-me.org/web-serveur/ch6/phpbb/install/install.php

Bravo, vous venez de decouvrir une des nombreuses failles de phpBB.

Cette faille est en fait un oubli du Webmaster qui aurait du enlever ces dossiers. Ils contiennent les pages d'installations du forum phpbb.

Ce genre de chose n'existe plus car les développeurs mettent en place des

systèmes de vérification pour faciliter la tâche aux plus têtes en l'air

Ce qu'il faut comprendre par contre c'est qu'on découvre souvent beaucoup de choses en trifouillant des URL...

Grâce à elles, vous pouvez remettre à zéro le forum, et changer tous les passwords administrateur, étant donné que vous reinitialisez le forum.

Vous avez donc ensuite un contrôle total du forum !!

Le mot de passe pour valider est : karambar

Bon courage!

To solve this challenge, you must change the URI with the following one : /webserveur/ch6/phpbb/install/install.php