2023

Introduction To Information Security And Forensics

Applied Project

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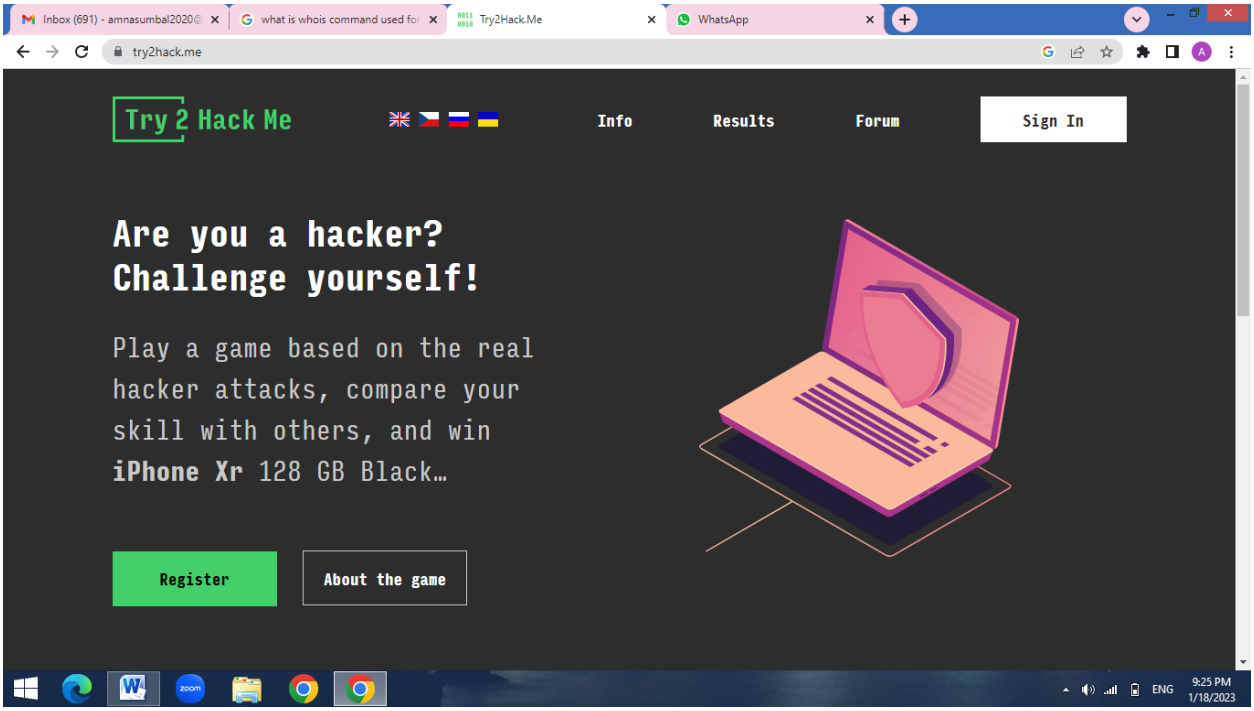
Submitted to: Ms. Snoober

INTRODUTION:

Website Interface



https://try2hack.me/

About the Website:

Try2Hack is a website where you can practice your hacking skills. It is considered one of the oldest challenge sites still around. Try2Hack offers multiple security challenges. The game features diverse levels which are sorted by difficulty, all created to practice hacking for one's entertainment. There is an IRC channel for beginners where they can join the community and ask for help, in addition to a full walkthrough based on GitHub.

Reconnaissance phase

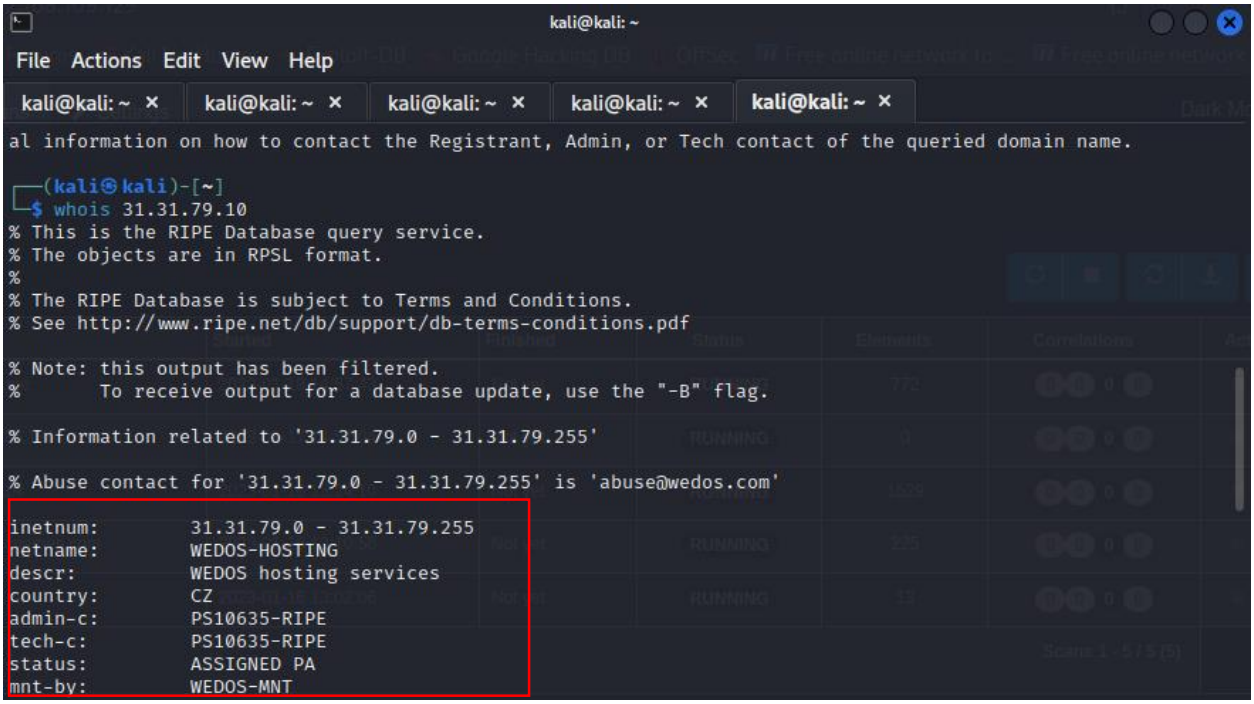
1. **Information Gathering (Passive)**

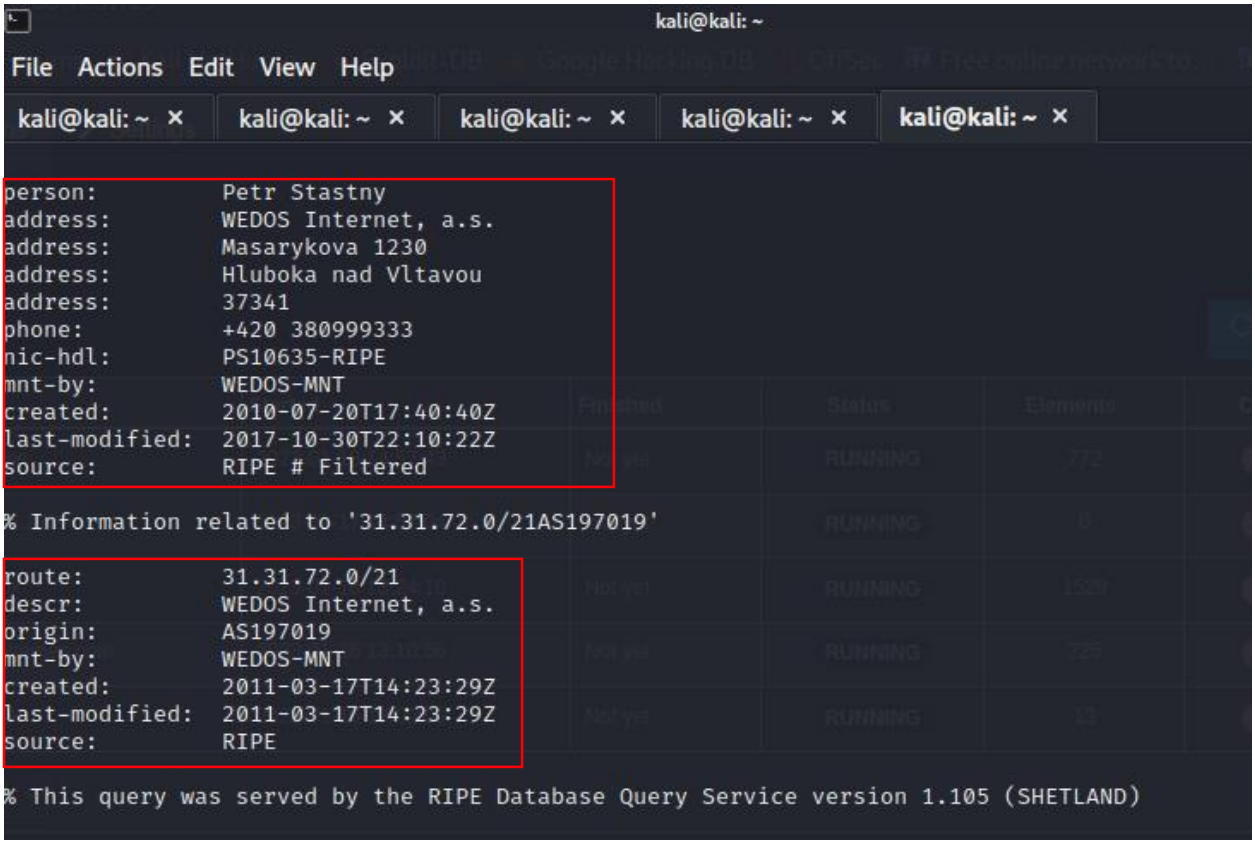
   We gathered the following information about the website we chose:

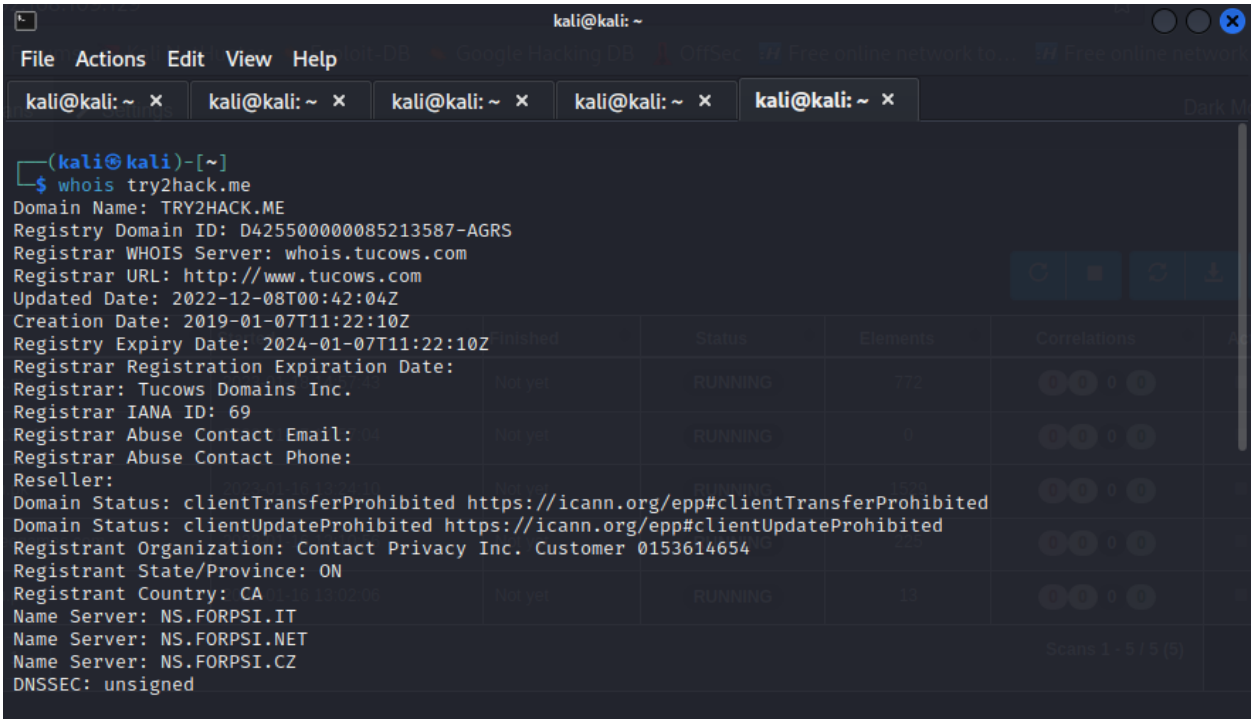
   - IP Address
   - Domain Name
   - Open Port
   - Network Range
   - Access Point

Whois

The Whois database contains details such as the registration date of the domain name, when it expires, ownership and contact information, nameserver information of the domain, the registrar via which the domain was purchased.




kali@kali: ~
File Actions Edit View Help
kali@kali: ~ ×
kali@kali: ~ ×
kali@kali: ~ ×
kali@kali: ~ ×
kali@kali: ~ ×
person: Petr Stastny
address: WEDOS Internet, a.s.
address: Masarykova 1230
address: Hluboka nad Vltavou
address: 37341
phone: +420 380999333
nic-hdl: PS10635-RIPE
mnt-by: WEDOS-MNT
created: 2010-07-20T17:40:40Z
last-modified: 2017-10-30T22:10:22Z
source: RIPE # Filtered
% Information related to '31.31.72.0/21AS197019'
route: 31.31.72.0/21
descr: WEDOS Internet, a.s.
origin: AS197019
mnt-by: WEDOS-MNT
created: 2011-03-17T14:23:29Z
last-modified: 2011-03-17T14:23:29Z
source: RIPE
% This query was served by the RIPE Database Query Service version 1.105 (SHETLAND)

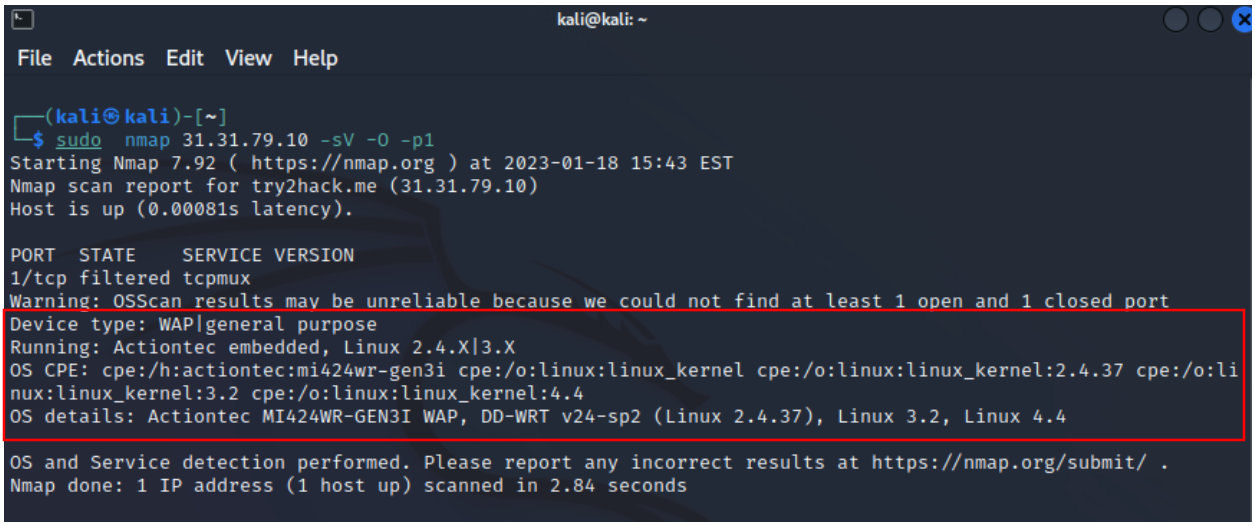

kali@kali: ~
File Actions Edit View Help
kali@kali: ~ ×
kali@kali: ~ ×
kali@kali: ~ ×
kali@kali: ~ ×
kali@kali: ~ ×
(kali㉿kali)-[~]
$ whois try2hack.me
Domain Name: TRY2HACK.ME
Registry Domain ID: D425500000085213587-AGRS
Registrar WHOIS Server: whois.tucows.com
Registrar URL: http://www.tucows.com
Updated Date: 2022-12-08T00:42:04Z
Creation Date: 2019-01-07T11:22:10Z
Registry Expiry Date: 2024-01-07T11:22:10Z
Registrar Registration Expiration Date:
Registrar: Tucows Domains Inc.
Registrar IANA ID: 69
Registrar Abuse Contact Email:
Registrar Abuse Contact Phone:
Reseller:
Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited
Domain Status: clientUpdateProhibited https://icann.org/epp#clientUpdateProhibited
Registrant Organization: Contact Privacy Inc. Customer 0153614654
Registrant State/Province: ON
Registrant Country: CA
Name Server: NS.FORPSI.IT
Name Server: NS.FORPSI.NET
Name Server: NS.FORPSI.CZ
DNSSEC: unsigned

As highlighted in the above image we gained a lot of information from the command Whois like the NetRange, NetName, Organization, ServerName Registration Date and when was the website last updated.

Moreover, the command also provided with the phone no, email, fax no, postal code, street, city, country and province where the website's organization might be located.

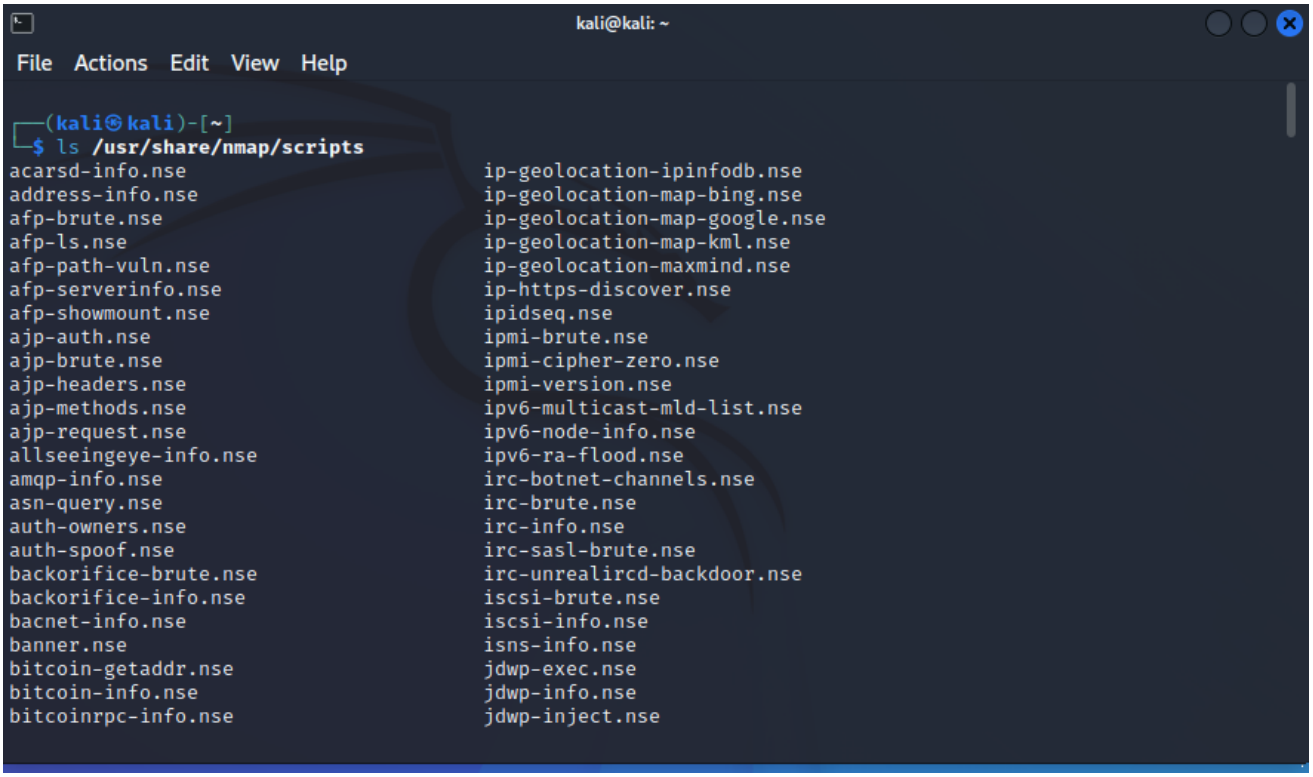
Nmap

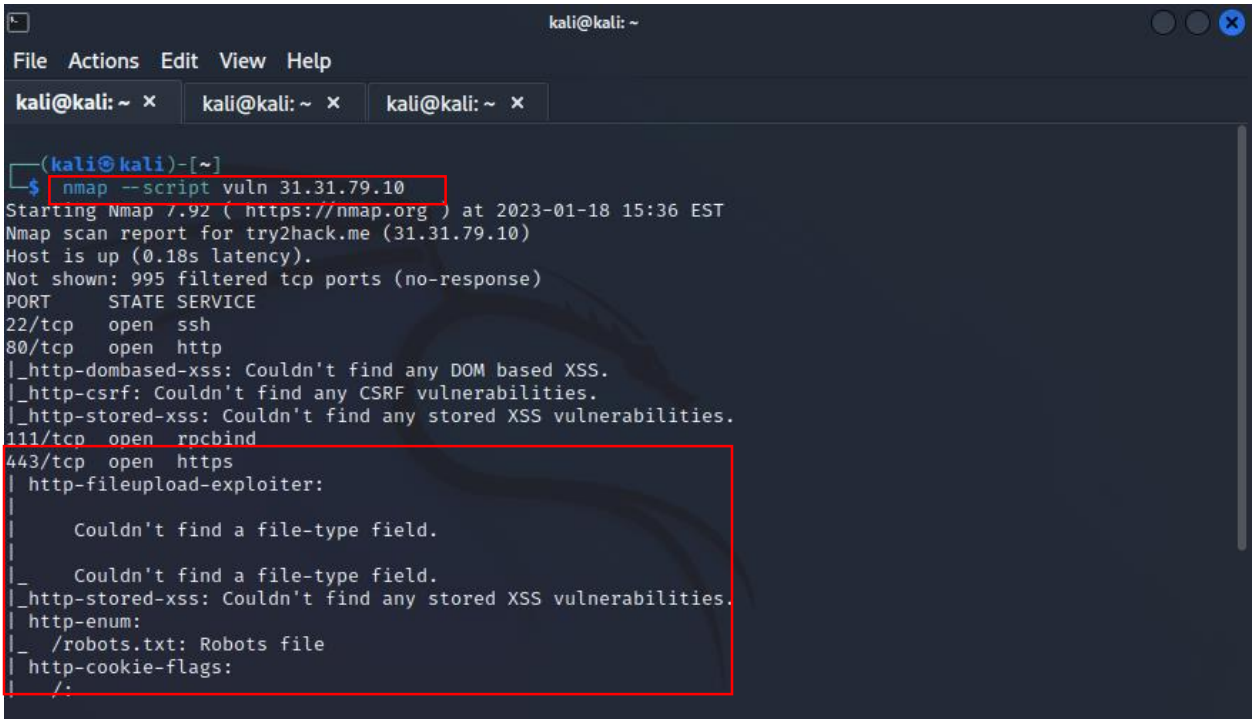
Nmap, the acronym for **Network Mapper**, is an open-source security auditing and network scanning tool. It can also be used to gain access to uncontrolled ports on a system. Nmap is used to discover hosts and services on a computer network by sending packets and analyzing the responses. Nmap provides a number of features for probing computer networks, including host discovery and service and operating system detection. These features are extensible by scripts that provide more advanced service detection, vulnerability detection, and other features.

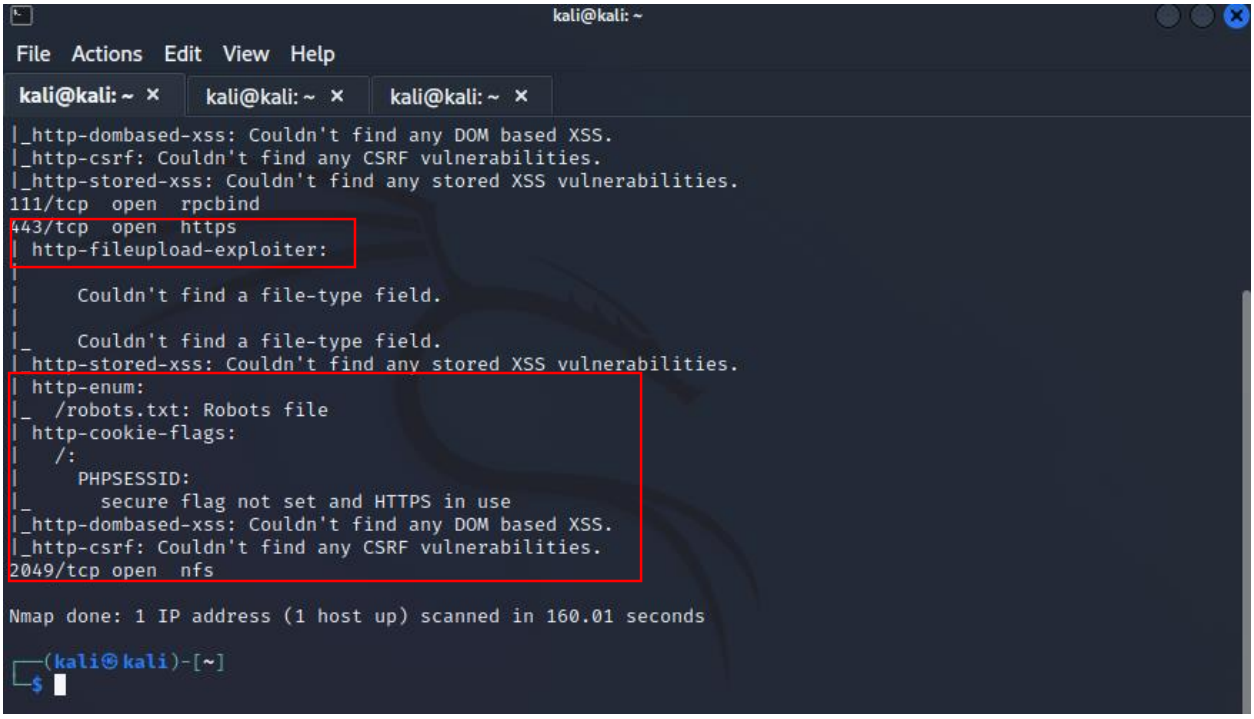


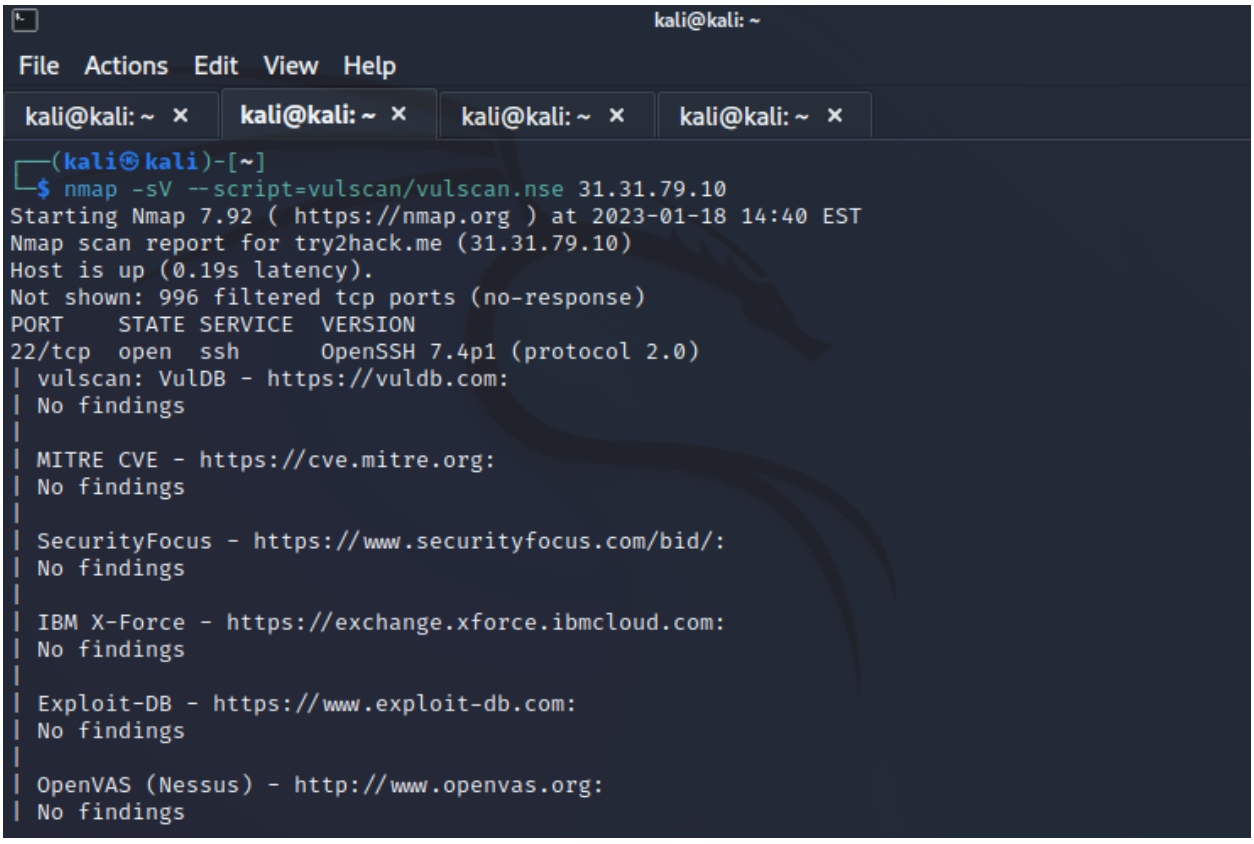
```
┌──(kali㉿kali)-[~]
└─$ nmap -v -sn try2hack.me
Starting Nmap 7.92 ( https://nmap.org ) at 2023-01-18 14:43 EST
Initiating Ping Scan at 14:43
Scanning try2hack.me (31.31.79.10) [2 ports]
Completed Ping Scan at 14:43, 0.17s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 14:43
Completed Parallel DNS resolution of 1 host. at 14:43, 0.24s elapsed
Nmap scan report for try2hack.me (31.31.79.10)
Host is up (0.17s latency).
Other addresses for try2hack.me (not scanned): 2a02:2b88:2:1::663d:1
Read data files from: /usr/bin/../share/nmap
Nmap done: 1 IP address (1 host up) scanned in 0.69 seconds
```

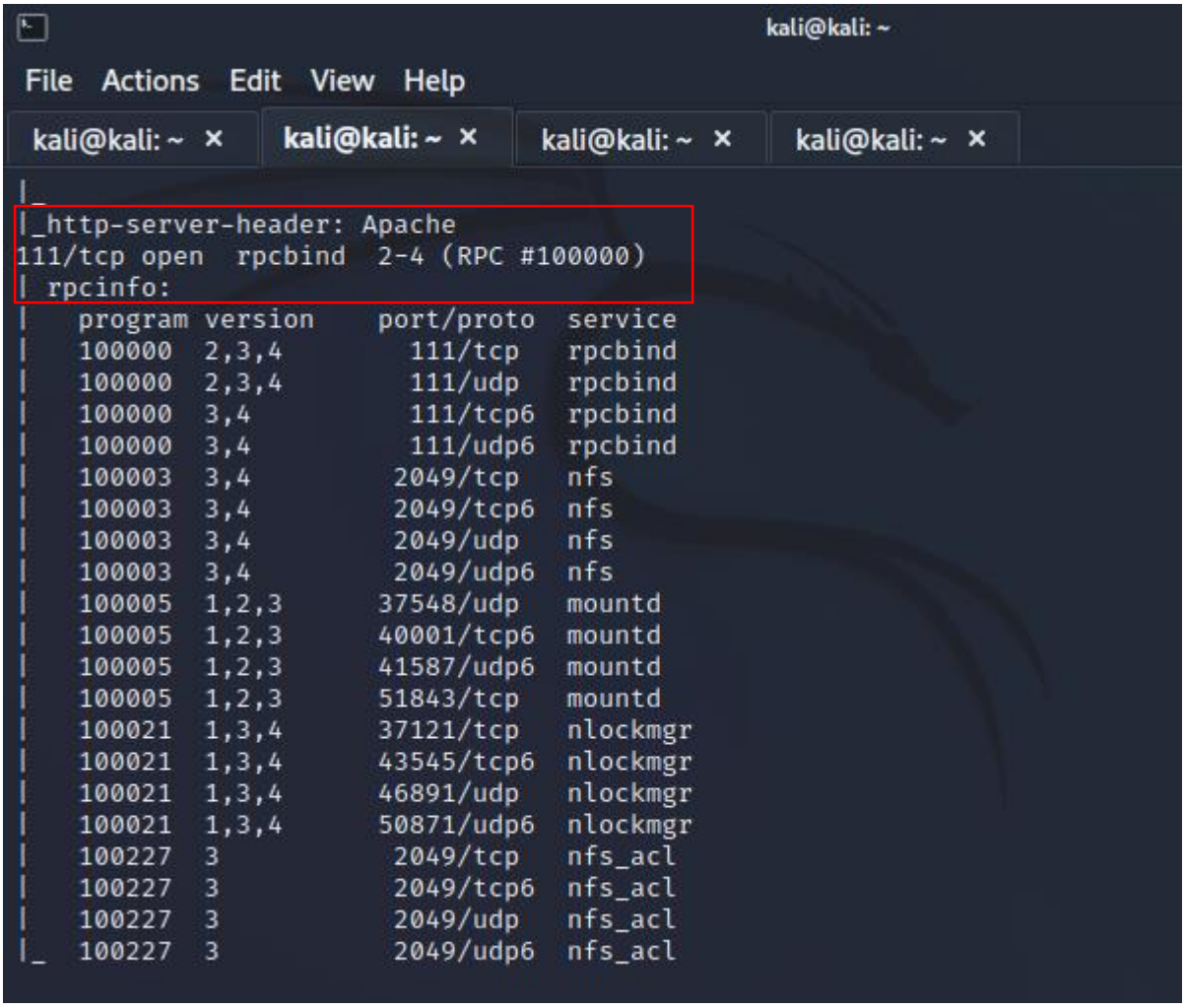
Nmap Scripts

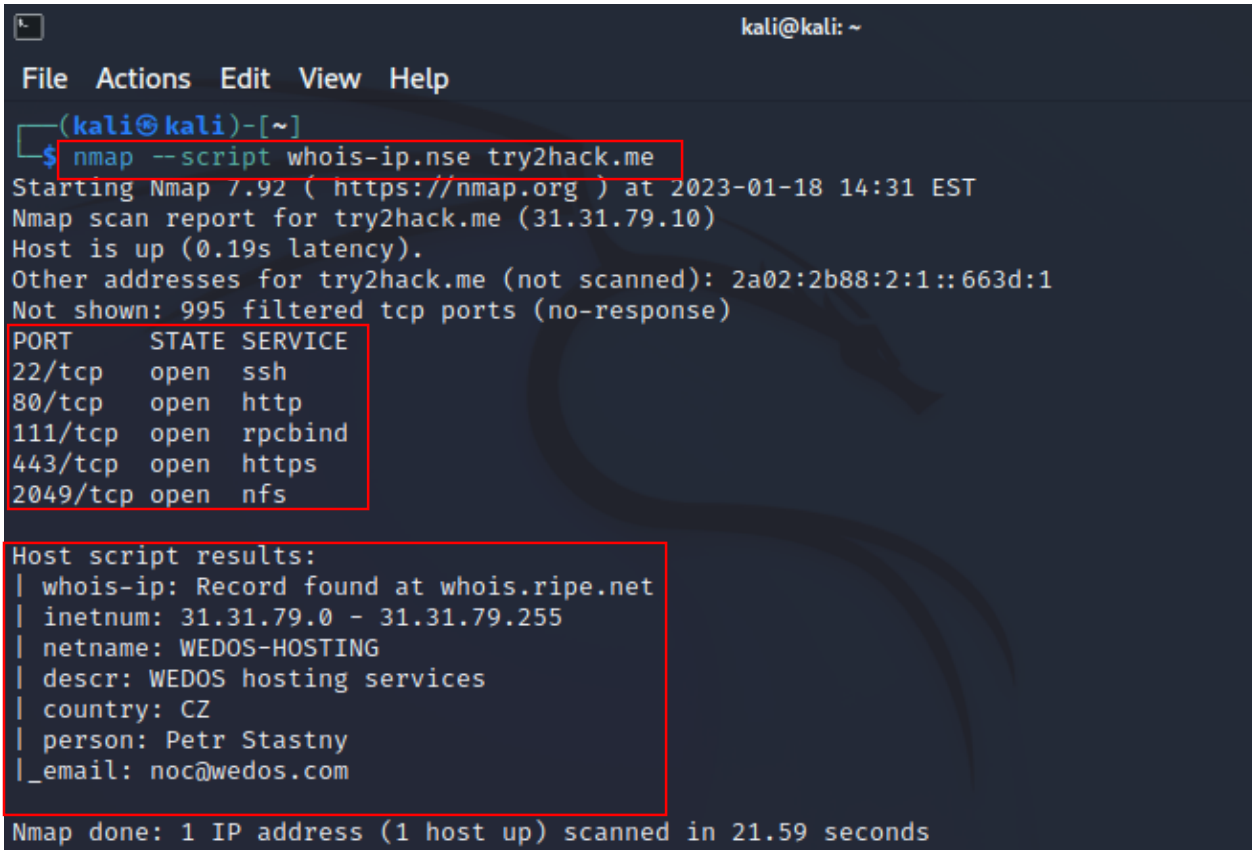



kali@kali: ~
File Actions Edit View Help
kali@kali: ~ ×
kali@kali: ~ ×
kali@kali: ~ ×
┌──(kali㉿kali)-[~]
└─$ nmap --script vuln 31.31.79.10
Starting Nmap 7.92 (https://nmap.org) at 2023-01-18 15:36 EST
Nmap scan report for try2hack.me (31.31.79.10)
Host is up (0.18s latency).
Not shown: 995 filtered tcp ports (no-response)
PORT STATE SERVICE
22/tcp open ssh
80/tcp open http
|_http-dombased-xss: Couldn't find any DOM based XSS.
|_http-csrf: Couldn't find any CSRF vulnerabilities.
|_http-stored-xss: Couldn't find any stored XSS vulnerabilities.
111/tcp open rpcbind
443/tcp open https
| http-fileupload-exploiter:
|
| Couldn't find a file-type field.
|
|_ Couldn't find a file-type field.
|_http-stored-xss: Couldn't find any stored XSS vulnerabilities.
| http-enum:
|_ /robots.txt: Robots file
| http-cookie-flags:
| /:


kali@kali: ~
File Actions Edit View Help
kali@kali: ~ ×
kali@kali: ~ ×
kali@kali: ~ ×
|_http-dombased-xss: Couldn't find any DOM based XSS.
|_http-csrf: Couldn't find any CSRF vulnerabilities.
|_http-stored-xss: Couldn't find any stored XSS vulnerabilities.
111/tcp open rpcbind
443/tcp open https
| http-fileupload-exploiter:
|
| Couldn't find a file-type field.
|
|_ Couldn't find a file-type field.
| http-stored-xss: Couldn't find any stored XSS vulnerabilities.
| http-enum:
|_ /robots.txt: Robots file
| http-cookie-flags:
| /:
| PHPSESSID:
|_ secure flag not set and HTTPS in use
|_http-dombased-xss: Couldn't find any DOM based XSS.
|_http-csrf: Couldn't find any CSRF vulnerabilities.
2049/tcp open nfs
Nmap done: 1 IP address (1 host up) scanned in 160.01 seconds
(kali㉿kali)-[~]
$


kali@kali: ~
File Actions Edit View Help
kali@kali: ~ ×
kali@kali: ~ ×
kali@kali: ~ ×
kali@kali: ~ ×
(kali㉿kali)-[~]
$ nmap -sV --script=vulscan/vulscan.nse 31.31.79.10
Starting Nmap 7.92 (https://nmap.org) at 2023-01-18 14:40 EST
Nmap scan report for try2hack.me (31.31.79.10)
Host is up (0.19s latency).
Not shown: 996 filtered tcp ports (no-response)
PORT STATE SERVICE VERSION
22/tcp open ssh OpenSSH 7.4p1 (protocol 2.0)
| vulscan: VulDB - https://vuldb.com:
| No findings
|
| MITRE CVE - https://cve.mitre.org:
| No findings
|
| SecurityFocus - https://www.securityfocus.com/bid/:
| No findings
|
| IBM X-Force - https://exchange.xforce.ibmcloud.com:
| No findings
|
| Exploit-DB - https://www.exploit-db.com:
| No findings
|
| OpenVAS (Nessus) - http://www.openvas.org:
| No findings


kali@kali: ~
File Actions Edit View Help
kali@kali: ~ ×
kali@kali: ~ ×
kali@kali: ~ ×
kali@kali: ~ ×
|_
|_http-server-header: Apache
111/tcp open rpcbind 2-4 (RPC #100000)
| rpcinfo:
| program version port/proto service
| 100000 2,3,4 111/tcp rpcbind
| 100000 2,3,4 111/udp rpcbind
| 100000 3,4 111/tcp6 rpcbind
| 100000 3,4 111/udp6 rpcbind
| 100003 3,4 2049/tcp nfs
| 100003 3,4 2049/tcp6 nfs
| 100003 3,4 2049/udp nfs
| 100003 3,4 2049/udp6 nfs
| 100005 1,2,3 37548/udp mountd
| 100005 1,2,3 40001/tcp6 mountd
| 100005 1,2,3 41587/udp6 mountd
| 100005 1,2,3 51843/tcp mountd
| 100021 1,3,4 37121/tcp nlockmgr
| 100021 1,3,4 43545/tcp6 nlockmgr
| 100021 1,3,4 46891/udp nlockmgr
| 100021 1,3,4 50871/udp6 nlockmgr
| 100227 3 2049/tcp nfs_acl
| 100227 3 2049/tcp6 nfs_acl
| 100227 3 2049/udp nfs_acl
|_ 100227 3 2049/udp6 nfs_acl

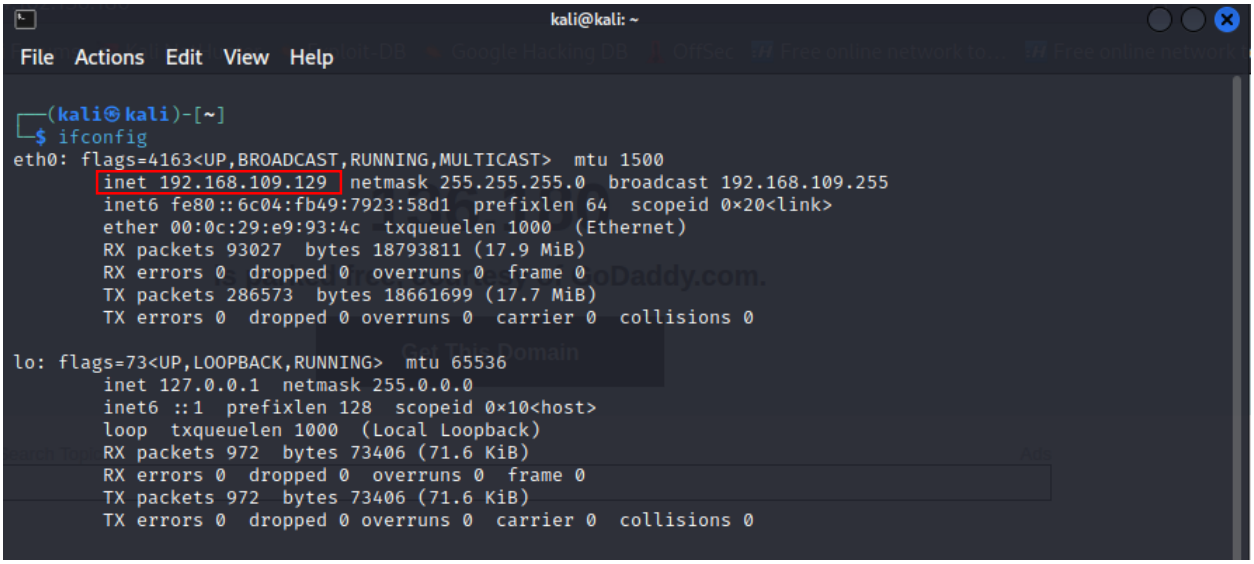

kali@kali: ~
File Actions Edit View Help
(kali㉿kali)-[~]
$ nmap --script whois-ip.nse try2hack.me
Starting Nmap 7.92 (https://nmap.org) at 2023-01-18 14:31 EST
Nmap scan report for try2hack.me (31.31.79.10)
Host is up (0.19s latency).
Other addresses for try2hack.me (not scanned): 2a02:2b88:2:1::663d:1
Not shown: 995 filtered tcp ports (no-response)
PORT STATE SERVICE
22/tcp open ssh
80/tcp open http
111/tcp open rpcbind
443/tcp open https
2049/tcp open nfs
Host script results:
| whois-ip: Record found at whois.ripe.net
| inetnum: 31.31.79.0 - 31.31.79.255
| netname: WEDOS-HOSTING
| descr: WEDOS hosting services
| country: CZ
| person: Petr Stastny
|_email: noc@wedos.com
Nmap done: 1 IP address (1 host up) scanned in 21.59 seconds

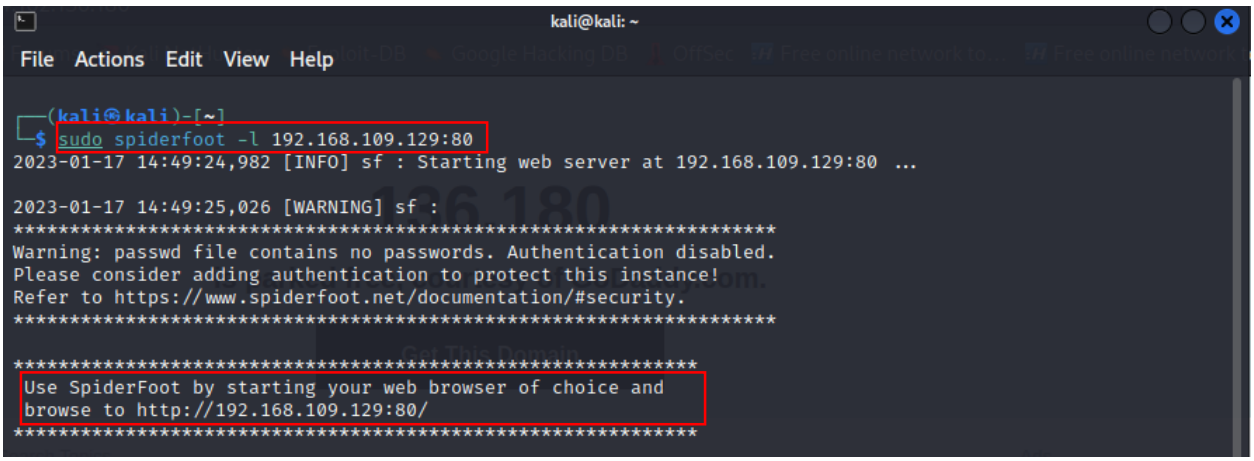
Scanning phase

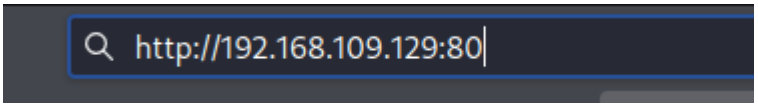
Spiderfoot

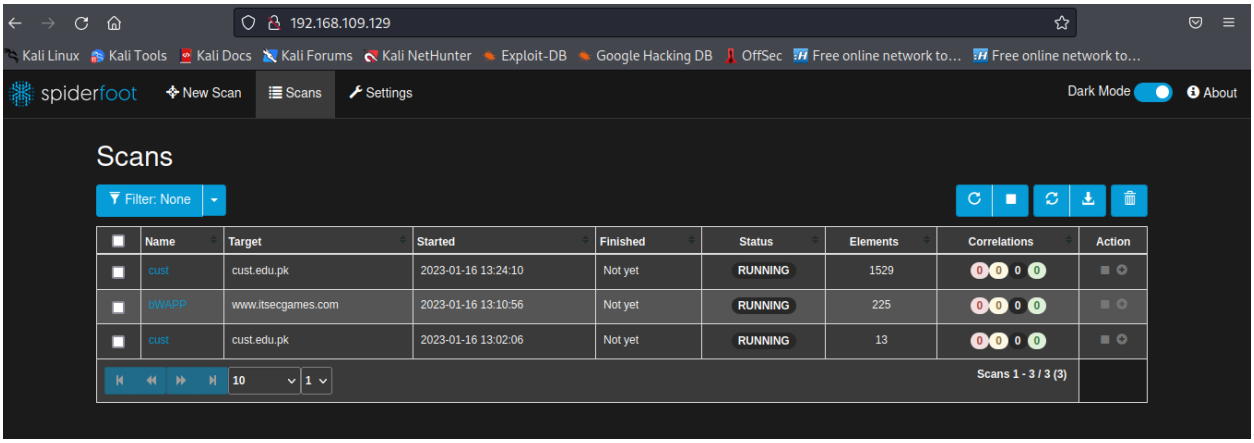
Spiderfoot is used to gather information about the target, or defensively to identify what information you or your organization are freely providing for attackers to use against you.

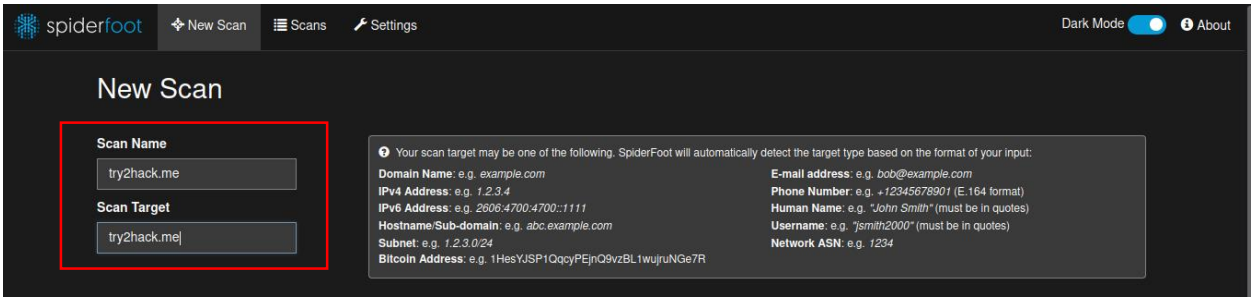
SpiderFoot is a reconnaissance tool that automatically queries over 100 public data sources to gather intelligence on IP addresses, domain names, e-mail addresses, names and more. It performs both active and passive scanning of a target.

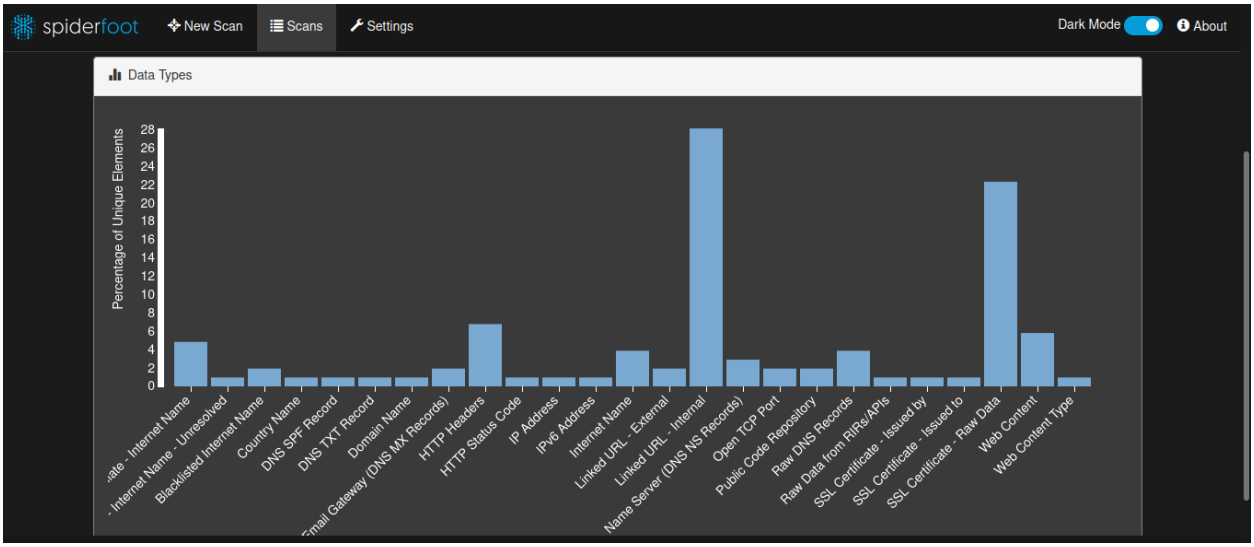


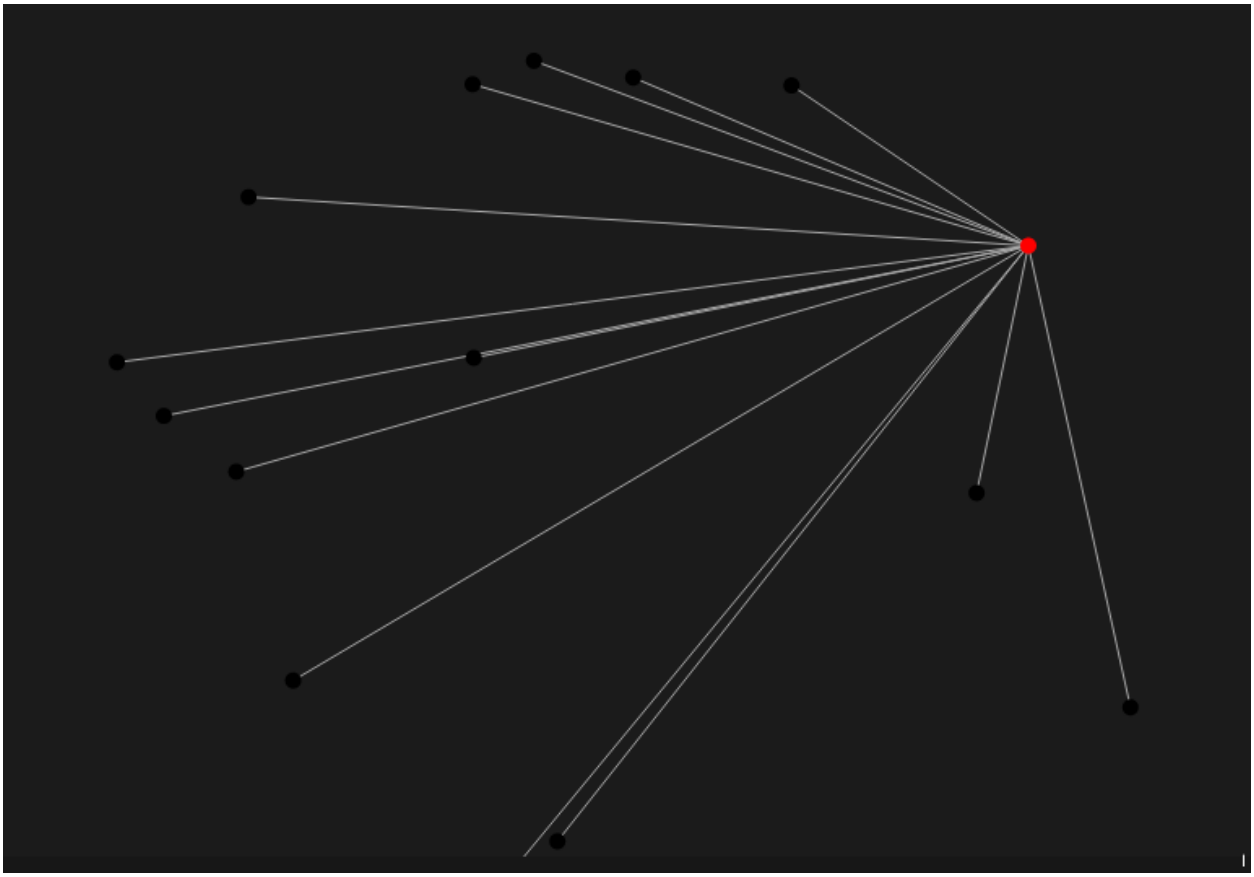





192.168.109.129
Kali Linux
Kali Tools
Kali Docs
Kali Forums
Kali NetHunter
Exploit-DB
Google Hacking DB
OffSec
Free online network to...
Free online network to...
spiderfoot
New Scan
Scans
Settings
Dark Mode
About
Scans
Filter: None
Name
Target
Started
Finished
Status
Elements
Correlations
Action
cust
cust.edu.pk
2023-01-16 13:24:10
Not yet
RUNNING
1529
bWAPP
www.itsecgames.com
2023-01-16 13:10:56
Not yet
RUNNING
225
cust
cust.edu.pk
2023-01-16 13:02:06
Not yet
RUNNING
13
10
1
Scans 1 - 3 / 3 (3)


spiderfoot
New Scan
Scans
Settings
Dark Mode
About
New Scan
Scan Name
try2hack.me
Scan Target
try2hack.me
Your scan target may be one of the following. SpiderFoot will automatically detect the target type based on the format of your input:
Domain Name: e.g. example.com
IPv4 Address: e.g. 1.2.3.4
IPv6 Address: e.g. 2606:4700:4700::1111
Hostname/Sub-domain: e.g. abc.example.com
Subnet: e.g. 1.2.3.0/24
Bitcoin Address: e.g. 1HesYJSP1QqcyPEjnQ9vzBL1wujruNGe7R
E-mail address: e.g. bob@example.com
Phone Number: e.g. +12345678901 (E.164 format)
Human Name: e.g. "John Smith" (must be in quotes)
Username: e.g. "jsmith2000" (must be in quotes)
Network ASN: e.g. 1234


spiderfoot
New Scan
Scans
Settings
Dark Mode
About
Data Types
Percentage of Unique Elements
28
26
24
22
20
18
16
14
12
10
8
6
4
2
0
Internet Name
Internet Name - Unresolved
Blacklisted Internet Name
Country Name
DNS SPF Record
DNS TXT Record
Domain Name
Email Gateway (DNS MX Records)
HTTP Headers
HTTP Status Code
IP Address
IPv6 Address
Internet Name
Linked URL - External
Linked URL - Internal
Name Server (DNS NS Records)
Open TCP Port
Public Code Repository
Raw DNS Records
Raw Data from RIRs/APIs
SSL Certificate - Issued by
SSL Certificate - Issued to
SSL Certificate - Raw Data
Web Content
Web Content Type

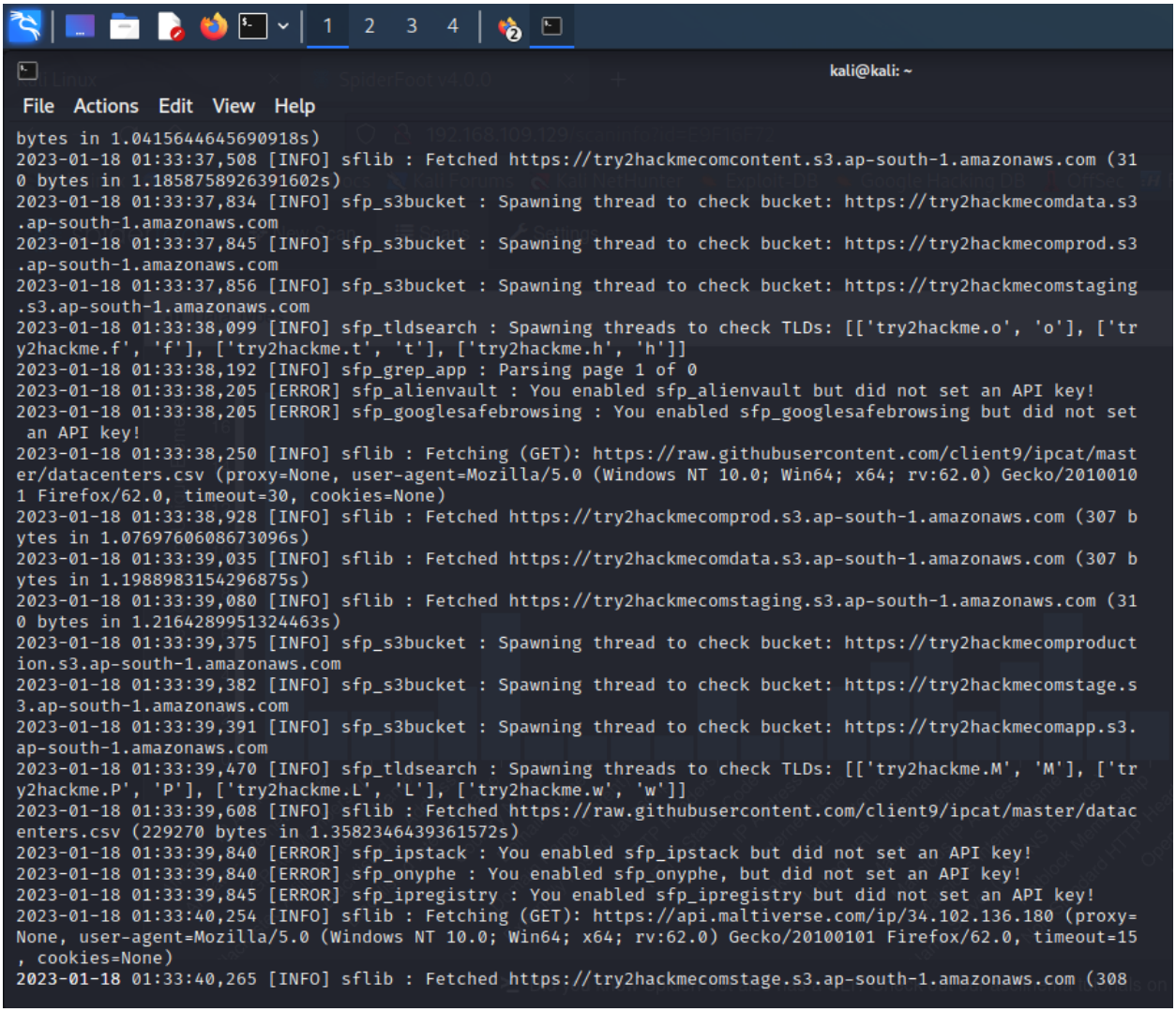


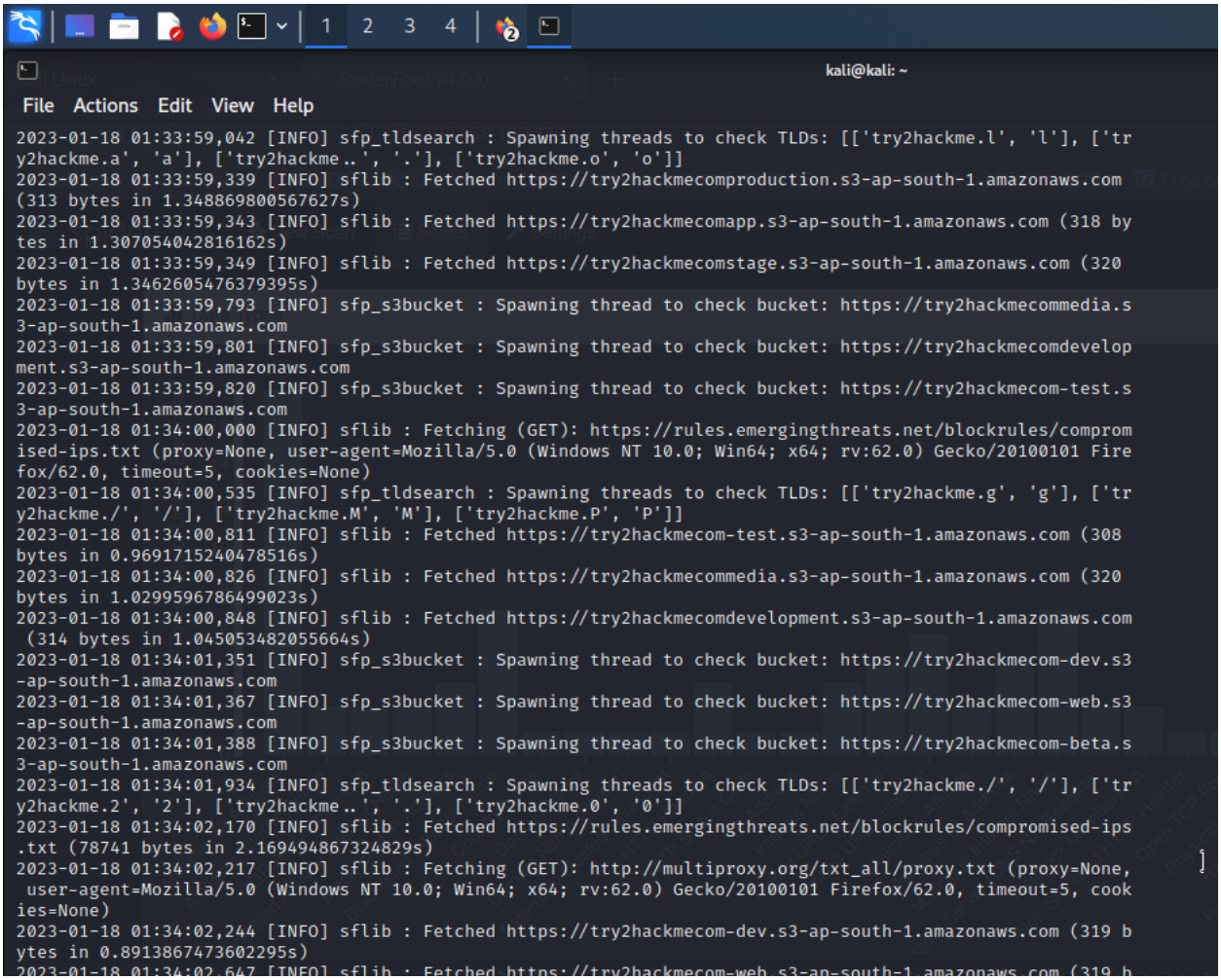
kali@kali: ~

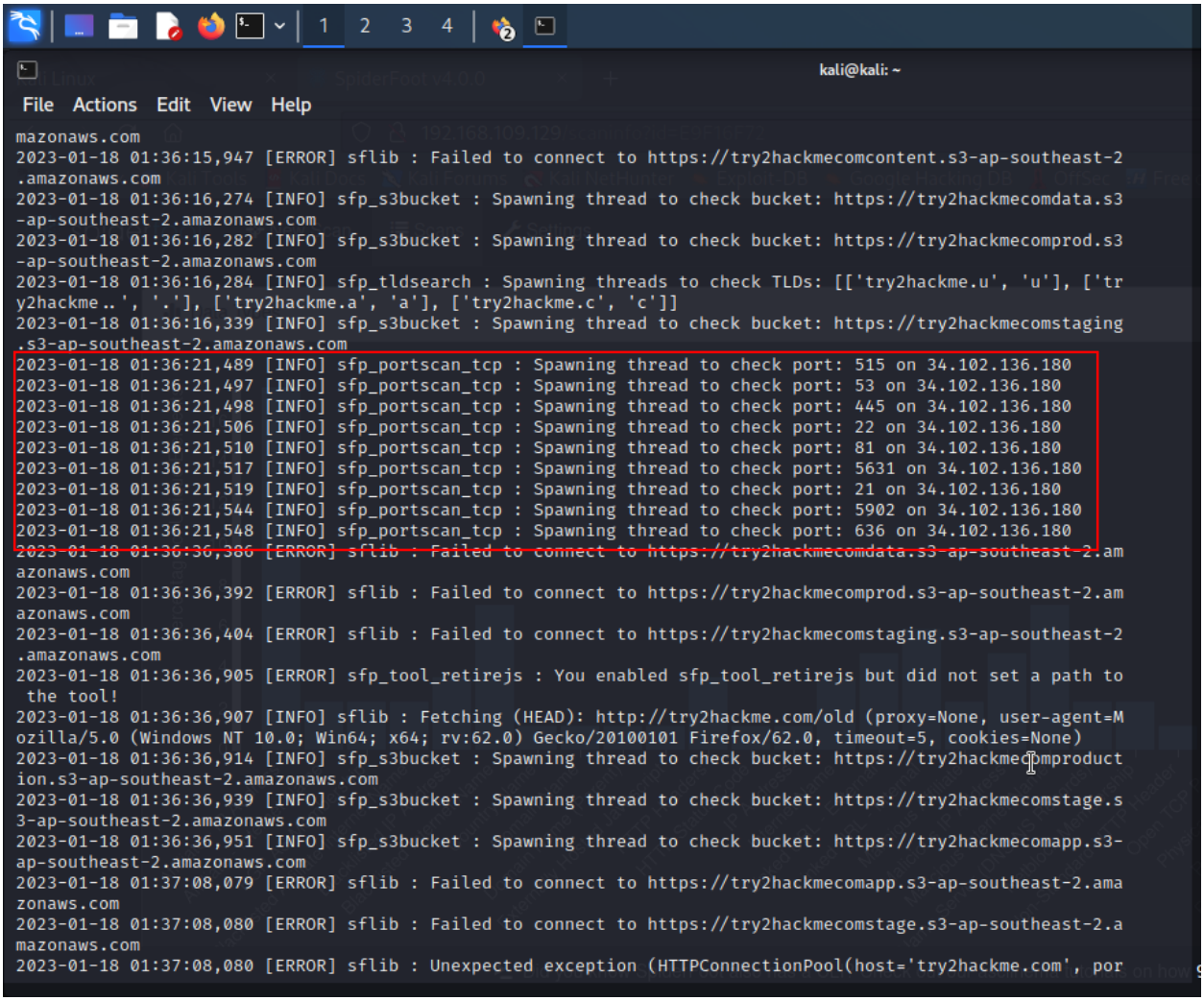
File Actions Edit View Help

kali@kali: ~ × kali@kali: ~ × kali@kali: ~ ×

```
2023-01-18 15:21:05,069 [INFO] sflib : Fetching (GET): https://dnsdumpster.com (proxy=None, user-agent=Mozi
lla/5.0 (Windows NT 10.0; Win64; x64; rv:62.0) Gecko/20100101 Firefox/62.0, timeout=30, cookies=None)
2023-01-18 15:21:05,591 [INFO] sflib : Fetching (GET): https://crt.sh/?d=4841029347 (proxy=None, user-agent
=Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:62.0) Gecko/20100101 Firefox/62.0, timeout=30, cookies=None)
2023-01-18 15:21:06,496 [INFO] sflib : Fetched https://dnsdumpster.com (14858 bytes in 1.4272420406341553s)
2023-01-18 15:21:06,649 [INFO] sflib : Fetching (POST): https://dnsdumpster.com/ (proxy=None, user-agent=Mo
zilla/5.0 (Windows NT 10.0; Win64; x64; rv:62.0) Gecko/20100101 Firefox/62.0, timeout=30, cookies={'csrftok
en': 'qFIAsk1ve23rBGB4WgE2OYlvbG1zZOahqisTDx0WQLRo5zXZX4ot9orl6DtIvIUr'})
2023-01-18 15:21:06,737 [INFO] sflib : Fetched https://crt.sh/?d=4841029347 (1562 bytes in 1.14581751823425
3s)
2023-01-18 15:21:09,831 [INFO] sflib : Fetching (GET): https://crt.sh/?d=4506788680 (proxy=None, user-agent
=Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:62.0) Gecko/20100101 Firefox/62.0, timeout=30, cookies=None)
2023-01-18 15:21:09,961 [INFO] sflib : Fetching (GET): https://api.github.com/search/repositories?q=try2hac
k (proxy=None, user-agent=Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:62.0) Gecko/20100101 Firefox/62.0, t
imeout=5, cookies=None)
2023-01-18 15:21:11,061 [INFO] sflib : Fetched https://crt.sh/?d=4506788680 (1891 bytes in 1.23052215576171
88s)
2023-01-18 15:21:11,382 [INFO] sflib : Fetched https://api.github.com/search/repositories?q=try2hack (47235
 bytes in 1.4204981327056885s)
2023-01-18 15:21:11,472 [INFO] sflib : Fetching (GET): https://api.github.com/search/users?q=try2hack (prox
y=None, user-agent=Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:62.0) Gecko/20100101 Firefox/62.0, timeout=
5, cookies=None)
2023-01-18 15:21:11,747 [INFO] sflib : Fetched https://dnsdumpster.com/ (33330 bytes in 5.098076820373535s)
2023-01-18 15:21:12,407 [INFO] sflib : Fetching (GET): https://www.threatcrowd.org/searchApi/v2/domain/repo
rt/?domain=try2hack.me (proxy=None, user-agent=SpiderFoot, timeout=5, cookies=None)
```


1 2 3 4
kali@kali: ~
File Actions Edit View Help
bytes in 1.0415644645690918s)
2023-01-18 01:33:37,508 [INFO] sflib : Fetched https://try2hackmecomcontent.s3.ap-south-1.amazonaws.com (310 bytes in 1.1858758926391602s)
2023-01-18 01:33:37,834 [INFO] sfp_s3bucket : Spawning thread to check bucket: https://try2hackmecomdata.s3.ap-south-1.amazonaws.com
2023-01-18 01:33:37,845 [INFO] sfp_s3bucket : Spawning thread to check bucket: https://try2hackmecomprod.s3.ap-south-1.amazonaws.com
2023-01-18 01:33:37,856 [INFO] sfp_s3bucket : Spawning thread to check bucket: https://try2hackmecomstaging.s3.ap-south-1.amazonaws.com
2023-01-18 01:33:38,099 [INFO] sfp_tldsearch : Spawning threads to check TLDs: [['try2hackme.o', 'o'], ['try2hackme.f', 'f'], ['try2hackme.t', 't'], ['try2hackme.h', 'h']]
2023-01-18 01:33:38,192 [INFO] sfp_grep_app : Parsing page 1 of 0
2023-01-18 01:33:38,205 [ERROR] sfp_alienvault : You enabled sfp_alienvault but did not set an API key!
2023-01-18 01:33:38,205 [ERROR] sfp_googlesafebrowsing : You enabled sfp_googlesafebrowsing but did not set an API key!
2023-01-18 01:33:38,250 [INFO] sflib : Fetching (GET): https://raw.githubusercontent.com/client9/ipcat/master/datacenters.csv (proxy=None, user-agent=Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:62.0) Gecko/20100101 Firefox/62.0, timeout=30, cookies=None)
2023-01-18 01:33:38,928 [INFO] sflib : Fetched https://try2hackmecomprod.s3.ap-south-1.amazonaws.com (307 bytes in 1.07697606086730 96s)
2023-01-18 01:33:39,035 [INFO] sflib : Fetched https://try2hackmecomdata.s3.ap-south-1.amazonaws.com (307 bytes in 1.1988983154296875s)
2023-01-18 01:33:39,080 [INFO] sflib : Fetched https://try2hackmecomstaging.s3.ap-south-1.amazonaws.com (310 bytes in 1.2164289951324463s)
2023-01-18 01:33:39,375 [INFO] sfp_s3bucket : Spawning thread to check bucket: https://try2hackmecomproduction.s3.ap-south-1.amazonaws.com
2023-01-18 01:33:39,382 [INFO] sfp_s3bucket : Spawning thread to check bucket: https://try2hackmecomstage.s3.ap-south-1.amazonaws.com
2023-01-18 01:33:39,391 [INFO] sfp_s3bucket : Spawning thread to check bucket: https://try2hackmecomapp.s3.ap-south-1.amazonaws.com
2023-01-18 01:33:39,470 [INFO] sfp_tldsearch : Spawning threads to check TLDs: [['try2hackme.M', 'M'], ['try2hackme.P', 'P'], ['try2hackme.L', 'L'], ['try2hackme.w', 'w']]
2023-01-18 01:33:39,608 [INFO] sflib : Fetched https://raw.githubusercontent.com/client9/ipcat/master/datacenters.csv (229270 bytes in 1.3582346439361572s)
2023-01-18 01:33:39,840 [ERROR] sfp_ipstack : You enabled sfp_ipstack but did not set an API key!
2023-01-18 01:33:39,840 [ERROR] sfp_onyphe : You enabled sfp_onyphe, but did not set an API key!
2023-01-18 01:33:39,845 [ERROR] sfp_ipregistry : You enabled sfp_ipregistry but did not set an API key!
2023-01-18 01:33:40,254 [INFO] sflib : Fetching (GET): https://api.maltiverse.com/ip/34.102.136.180 (proxy=None, user-agent=Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:62.0) Gecko/20100101 Firefox/62.0, timeout=15, cookies=None)
2023-01-18 01:33:40,265 [INFO] sflib : Fetched https://try2hackmecomstage.s3.ap-south-1.amazonaws.com (308

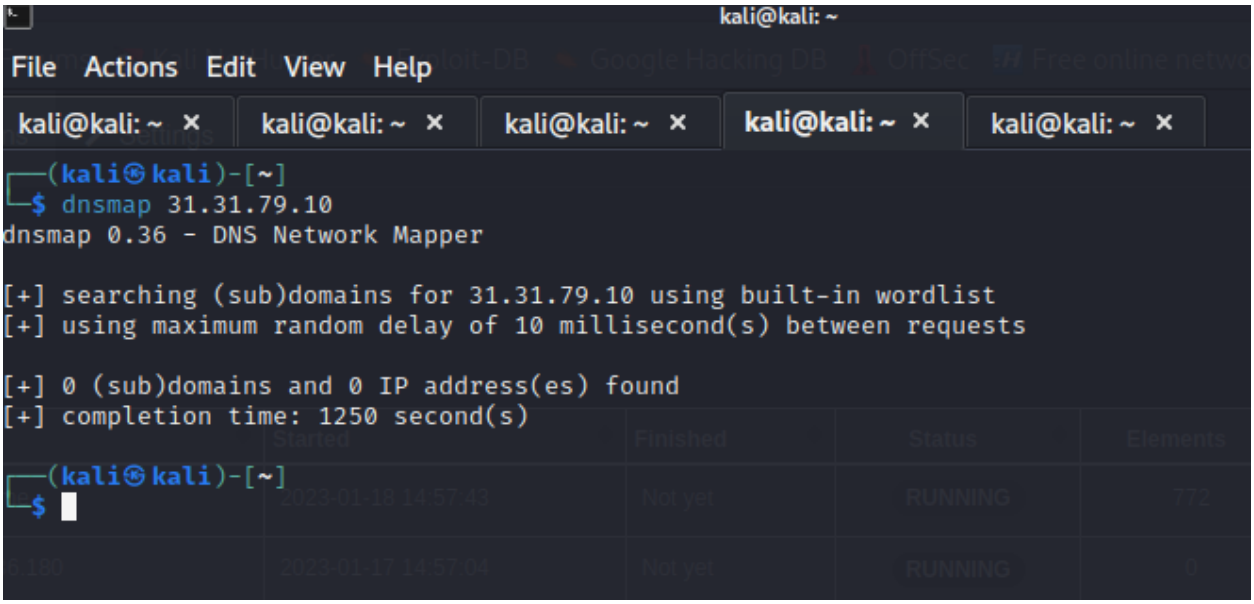

1 2 3 4
kali@kali: ~
File Actions Edit View Help
2023-01-18 01:33:59,042 [INFO] sfp_tldsearch : Spawning threads to check TLDs: [['try2hackme.l', 'l'], ['try2hackme.a', 'a'], ['try2hackme..', '.'], ['try2hackme.o', 'o']]
2023-01-18 01:33:59,339 [INFO] sflib : Fetched https://try2hackmecomproduction.s3-ap-south-1.amazonaws.com (313 bytes in 1.348869800567627s)
2023-01-18 01:33:59,343 [INFO] sflib : Fetched https://try2hackmecomapp.s3-ap-south-1.amazonaws.com (318 bytes in 1.307054042816162s)
2023-01-18 01:33:59,349 [INFO] sflib : Fetched https://try2hackmecomstage.s3-ap-south-1.amazonaws.com (320 bytes in 1.3462605476379395s)
2023-01-18 01:33:59,793 [INFO] sfp_s3bucket : Spawning thread to check bucket: https://try2hackmecommedia.s3-ap-south-1.amazonaws.com
2023-01-18 01:33:59,801 [INFO] sfp_s3bucket : Spawning thread to check bucket: https://try2hackmecomdevelopment.s3-ap-south-1.amazonaws.com
2023-01-18 01:33:59,820 [INFO] sfp_s3bucket : Spawning thread to check bucket: https://try2hackmecom-test.s3-ap-south-1.amazonaws.com
2023-01-18 01:34:00,000 [INFO] sflib : Fetching (GET): https://rules.emergingthreats.net/blockrules/compromised-ips.txt (proxy=None, user-agent=Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:62.0) Gecko/20100101 Firefox/62.0, timeout=5, cookies=None)
2023-01-18 01:34:00,535 [INFO] sfp_tldsearch : Spawning threads to check TLDs: [['try2hackme.g', 'g'], ['try2hackme./', '/'], ['try2hackme.M', 'M'], ['try2hackme.P', 'P']]
2023-01-18 01:34:00,811 [INFO] sflib : Fetched https://try2hackmecom-test.s3-ap-south-1.amazonaws.com (308 bytes in 0.9691715240478516s)
2023-01-18 01:34:00,826 [INFO] sflib : Fetched https://try2hackmecommedia.s3-ap-south-1.amazonaws.com (320 bytes in 1.0299596786499023s)
2023-01-18 01:34:00,848 [INFO] sflib : Fetched https://try2hackmecomdevelopment.s3-ap-south-1.amazonaws.com (314 bytes in 1.045053482055664s)
2023-01-18 01:34:01,351 [INFO] sfp_s3bucket : Spawning thread to check bucket: https://try2hackmecom-dev.s3-ap-south-1.amazonaws.com
2023-01-18 01:34:01,367 [INFO] sfp_s3bucket : Spawning thread to check bucket: https://try2hackmecom-web.s3-ap-south-1.amazonaws.com
2023-01-18 01:34:01,388 [INFO] sfp_s3bucket : Spawning thread to check bucket: https://try2hackmecom-beta.s3-ap-south-1.amazonaws.com
2023-01-18 01:34:01,934 [INFO] sfp_tldsearch : Spawning threads to check TLDs: [['try2hackme./', '/'], ['try2hackme.2', '2'], ['try2hackme..', '.'], ['try2hackme.0', '0']]
2023-01-18 01:34:02,170 [INFO] sflib : Fetched https://rules.emergingthreats.net/blockrules/compromised-ips.txt (78741 bytes in 2.169494867324829s)
2023-01-18 01:34:02,217 [INFO] sflib : Fetching (GET): http://multiproxy.org/txt_all/proxy.txt (proxy=None, user-agent=Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:62.0) Gecko/20100101 Firefox/62.0, timeout=5, cookies=None)
2023-01-18 01:34:02,244 [INFO] sflib : Fetched https://try2hackmecom-dev.s3-ap-south-1.amazonaws.com (319 bytes in 0.8913867473602295s)



With the help of this tool, we found the **phone numbers, email addresses, IP Addresses, IPv6 Addresses, Internet Name, Open TCP Port, DNS TXT Records, Domain Name of the target**. With the help of this tool, we can create graphs of scanning done by Spiderfoot. We simply specified the target we wanted to investigate, picked which modules to enable and then used SpiderFoot will collect data.

Dnsmap

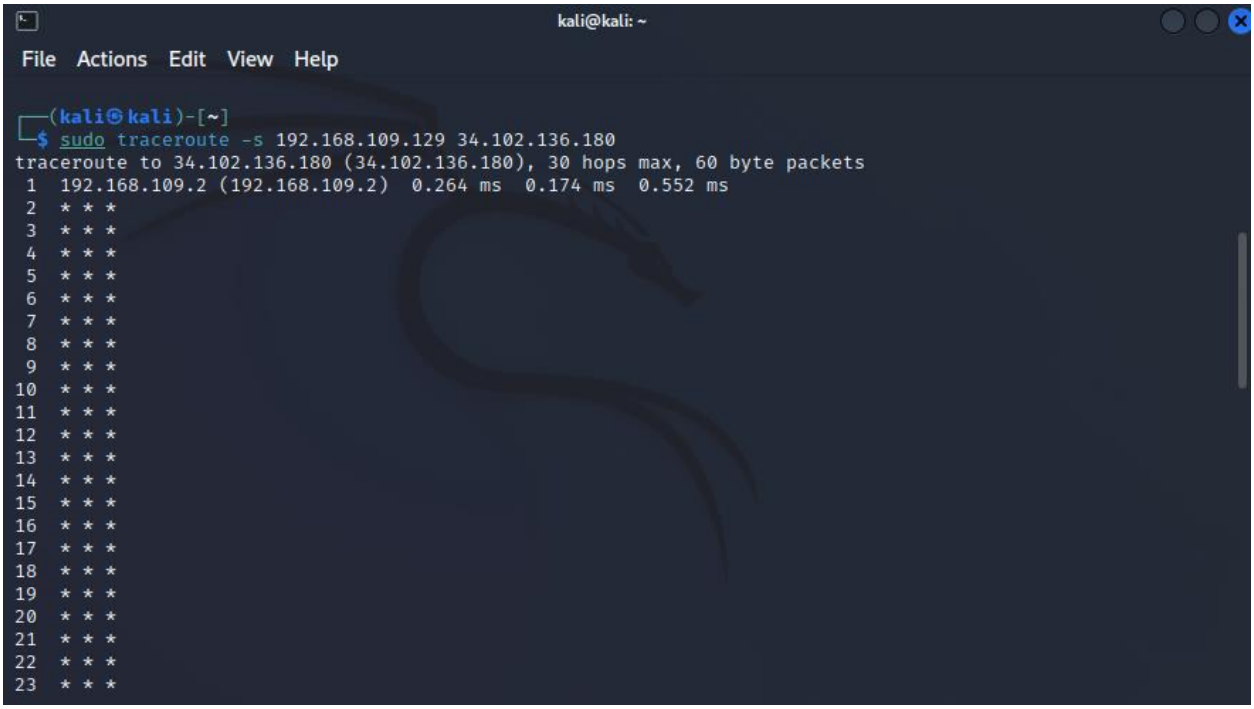
Dnsmap tells the subdomain of the website. DNSMAP, as the name suggests, is DNS Network Mapper, which is used for multiple purposes. Basically, DNSMAP is a passive Network Mapper, often called a sub domain brute force tool. This tool is mainly used by penetration testers and hackers for DNS and sub domain information gathering. It is similar to most other DNS information gathering tools.



The above image says 0 (sub)domains found which means there is **no subdomain of the website** Try2Hack.me

Traceroute

The traceroute command is used to determine the path between two connections. Often a connection to another device will have to go through multiple routers.



The Traceroute command provided with the information about how many hops are required to reach from one IP to the other.

CONCLUSION AND FINDINGS:

Summarizing our applied project, we got to learn about many new tools of Kali Linux which were very helpful in scanning and finding vulnerabilities of the website we chose. Try2Hack.Me is a website where we can test and practice our ethical hacking skills. The information we gathered can be used to access the website. Moreover, any data found about the website can be uploaded on Dark Web, which can be dangerous for the website owners. For instance, we can use the emails and other information found to perform any kind of social engineering attacks. Moreover, this project can be very helpful for website owners to enhance their security system.

FINDINGS:

- Domain name
- IP Address
- DNS Servers
- Employee Data
- Email Addresses
- Open Ports

TOOLS USED:

- Whois
- Nmap
- Spiderfoot
- Dnsmap
- Traceroute