



HACKTHEBOX

Information Gathering - Web Edition



Tier II Easy Offensive

This module equips learners with essential web reconnaissance skills, crucial for ethical hacking and penetration testing. It explores both active and passive techniques, including DNS enumeration, web crawling, analysis of web archives and HTTP headers, and fingerprinting web technologies.

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Utilising WHOIS

Perform a WHOIS lookup against the paypal.com domain. What is the registrar Internet Assigned Numbers Authority (IANA) ID number?

Answer: 292

```
$ whois paypal.com
```

```
Domain Name: PAYPAL.COM
Registry Domain ID: 8017040_DOMAIN_COM-VRSN
Registrar WHOIS Server: whois.markmonitor.com
Registrar URL: http://www.markmonitor.com
Updated Date: 2024-10-08T21:00:07Z
Creation Date: 1999-07-15T05:32:11Z
Registry Expiry Date: 2025-07-15T05:32:11Z
Registrar: MarkMonitor Inc.
Registrar IANA ID: 292
```

What is the admin email contact for the tesla.com domain (also in-scope for the Tesla bug bounty program)?

Answer: admin@dnstinations.com

```
$ whois tesla.com
```

```
Domain Name: TESLA.COM
....
Admin Name: Domain Administrator
Admin Organization: DNStination Inc.
Admin Street: 3450 Sacramento Street, Suite 405
Admin City: San Francisco
Admin State/Province: CA
Admin Postal Code: 94118
Admin Country: US
Admin Phone: +1.4155319335
Admin Phone Ext:
Admin Fax: +1.4155319336
Admin Fax Ext:
Admin Email: admin@dnstinations.com
```

Digging DNS

Which IP address maps to inlanefreight.com?

Answer: 134.209.24.248

```
$ dig inlanefreight.com
```

```
;; ANSWER SECTION:
```

```
inlanefreight.com. 300 IN A 134.209.24.248
```

Which domain is returned when querying the PTR record for 134.209.24.248?

Answer: inlanefreight.com

```
$ dig -x 134.209.24.248
```

```
;; ANSWER SECTION:
```

```
248.24.209.134.in-addr.arpa. 1800 IN PTR inlanefreight.com.
```

What is the full domain returned when you query the mail records for facebook.com?

Answer: smtpin.vvv.facebook.com

```
$ dig MX facebook.com
```

```
;; ANSWER SECTION:
```

```
facebook.com. 623 IN MX 10 smtpin.vvv.facebook.com.
```

Subdomain Bruteforcing

Using the known subdomains for *inlanefreight.com* (*www*, *ns1*, *ns2*, *ns3*, *blog*, *support*, *customer*), find any missing subdomains by brute-forcing possible domain names. Provide your answer with the complete subdomain, e.g., *www.inlanefreight.com*.

Answer: *my.inlanefreight.com*

```
$ locate seclists | grep "subdomain"
```

....

```
/usr/share/seclists/Discovery/DNS/subdomains-spanish.txt
```

```
/usr/share/seclists/Discovery/DNS/subdomains-top1million-110000.txt
```

```
/usr/share/seclists/Discovery/DNS/subdomains-top1million-20000.txt
```

```
/usr/share/seclists/Discovery/DNS/subdomains-top1million-5000.txt
```

```
$ dnsenum --enum inlanefreight.com -f /usr/share/seclists/Discovery/DNS/subdomains-top1million-110000.txt -r
```

Google Results:

blog.inlanefreight.com.	300	IN	A	134.209.24.248
-------------------------	-----	----	---	----------------

Brute forcing with `/usr/share/seclists/Discovery/DNS/subdomains-top1million-110000.txt`:

www.inlanefreight.com.	300	IN	A	134.209.24.248
ns1.inlanefreight.com.	300	IN	A	178.128.39.165
ns2.inlanefreight.com.	300	IN	A	206.189.119.186
ns3.inlanefreight.com.	300	IN	A	134.209.24.248
support.inlanefreight.com.	300	IN	A	134.209.24.248
my.inlanefreight.com.	300	IN	A	134.209.24.248
customer.inlanefreight.com.	300	IN	A	134.209.24.248

Only subdomain not specified in the question

DNS Zone Transfers

After performing a zone transfer for the domain inlanefreight.htb on the target system, how many DNS records are retrieved from the target system's name server? Provide your answer as an integer, e.g, 123.

Answer: 22

Within the zone record transferred above, find the ip address for ftp.admin.inlanefreight.htb. Respond only with the IP address, eg 127.0.0.1

Answer: 10.10.34.2

Within the same zone record, identify the largest IP address allocated within the 10.10.200 IP range. Respond with the full IP address, eg 10.10.200.1

Answer: 10.10.200.14

```
$ dig axfr inlanefreight.htb @10.129.44.226

; <<>> DiG 9.20.2-1-Debian <<>> axfr inlanefreight.htb @10.129.44.226
....
admin.inlanefreight.htb. 604800 IN  A    10.10.34.2
ftp.admin.inlanefreight.htb. 604800 IN  A    10.10.34.2
careers.inlanefreight.htb. 604800 IN  A    10.10.34.50
dc1.inlanefreight.htb. 604800 IN  A    10.10.34.16
....
test1.inlanefreight.htb. 604800 IN  A    10.10.34.101
us.inlanefreight.htb. 604800 IN  A    10.10.200.5
cluster14.us.inlanefreight.htb. 604800 IN  A    10.10.200.14
messagecenter.us.inlanefreight.htb. 604800 IN  A    10.10.200.10
....
;; WHEN: Fri Oct 18 22:36:05 EDT 2024
;; XFR size: 22 records (messages 1, bytes 594)
```

Virtual Hosts

Brute-force vhosts on the target system. What is the full subdomain that is prefixed with "web"? Answer using the full domain, e.g. "x.inlanefreight.htb"

Answer: web17611.inlanefreight.htb

Brute-force vhosts on the target system. What is the full subdomain that is prefixed with "vm"? Answer using the full domain, e.g. "x.inlanefreight.htb"

Answer: vm5.inlanefreight.htb

Brute-force vhosts on the target system. What is the full subdomain that is prefixed with "br"? Answer using the full domain, e.g. "x.inlanefreight.htb"

Answer: browse.inlanefreight.htb

Brute-force vhosts on the target system. What is the full subdomain that is prefixed with "a"? Answer using the full domain, e.g. "x.inlanefreight.htb"

Answer: admin.inlanefreight.htb

Brute-force vhosts on the target system. What is the full subdomain that is prefixed with "su"? Answer using the full domain, e.g. "x.inlanefreight.htb"

Answer: support.inlanefreight.htb

```
$ sudo nano /etc/hosts
```

ADD ENTRY: 94.237.54.229 inlanefreight.htb

```
$ sudo gobuster vhost -u http://inlanefreight.htb:57295 -w /usr/share/seclists/Discovery/DNS/subdomains-top1million-110000.txt --append-domain
```

...

Found: blog.inlanefreight.htb:57295 Status: 200 [Size: 98]

Found: support.inlanefreight.htb:57295 Status: 200 [Size: 104]

Found: forum.inlanefreight.htb:57295 Status: 200 [Size: 100]

Found: admin.inlanefreight.htb:57295 Status: 200 [Size: 100]

Found: vm5.inlanefreight.htb:57295 Status: 200 [Size: 96]

Found: browse.inlanefreight.htb:57295 Status: 200 [Size: 102]

Found: web17611.inlanefreight.htb:57295 Status: 200 [Size: 106]

...

Fingerprinting

*Determine the Apache version running on app.inlanefreight.local on the target system.
(Format: 0.0.0)*

Answer: 2.4.41

Which CMS is used on app.inlanefreight.local on the target system? Respond with the name only, e.g., WordPress.

Answer: Joomla

```
$ whatweb -v -H "Host: app.inlanefreight.local" http://10.129.12.145
```

```
WhatWeb report for http://10.129.12.145
```

```
Status   : 200 OK
```

```
Title    : Home
```

```
IP       : 10.129.12.145
```

```
Country  : RESERVED, ZZ
```

```
Summary  : Apache[2.4.41], Bootstrap, Cookies[72af8f2b24261272e581a49f5c56de40],  
HTML5, HTTPServer[Ubuntu Linux][Apache/2.4.41 (Ubuntu)],  
HttpOnly[72af8f2b24261272e581a49f5c56de40], JQuery, MetaGenerator[Joomla! -  
Open Source Content Management],  
OpenSearch[http://app.inlanefreight.local/index.php/component/search/?layout=blog&  
amp;id=9&amp;Itemid=101&amp;format=opensearch], Script,  
UncommonHeaders[permissions-policy]
```

```
Detected Plugins:
```

```
...
```

```
[ MetaGenerator ]
```

```
    This plugin identifies meta generator tags and extracts its  
    value.
```

```
String    : Joomla! - Open Source Content Management
```

```
[ OpenSearch ]
```

```
    This plugin identifies open search and extracts the URL.  
    OpenSearch is a collection of simple formats for the  
    sharing of search results.
```

On which operating system is the dev.inlanefreight.local webserver running in the target system? Respond with the name only, e.g., Debian.

Answer: Ubuntu

```
$ curl -I -H "Host: dev.inlanefreight.local" http://10.129.12.145
```

```
HTTP/1.1 200 OK
```

```
Date: Tue, 22 Oct 2024 02:16:32 GMT
```

```
Server: Apache/2.4.41 (Ubuntu)
```

```
Set-Cookie: 02a93f6429c54209e06c64b77be2180d=kbcmmmdubndufaoj81t5ij1hh9n;  
path=/; HttpOnly
```

```
Expires: Wed, 17 Aug 2005 00:00:00 GMT
```

```
Last-Modified: Tue, 22 Oct 2024 02:16:32 GMT
```

```
Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0
```

```
Pragma: no-cache
```

```
Content-Type: text/html; charset=utf-8
```


Creepy Crawlies

After spidering inlanefreight.com, identify the location where future reports will be stored. Respond with the full domain, e.g., files.inlanefreight.com.

Answer: inlanefreight-comp133.s3.amazonaws.com

Prepare the environment to run ReconSpider

```
$ sudo apt install python3.12-venv
$ python -m venv python-env
$ python -m venv python-env
$ sudo pip3 install scrapy
```

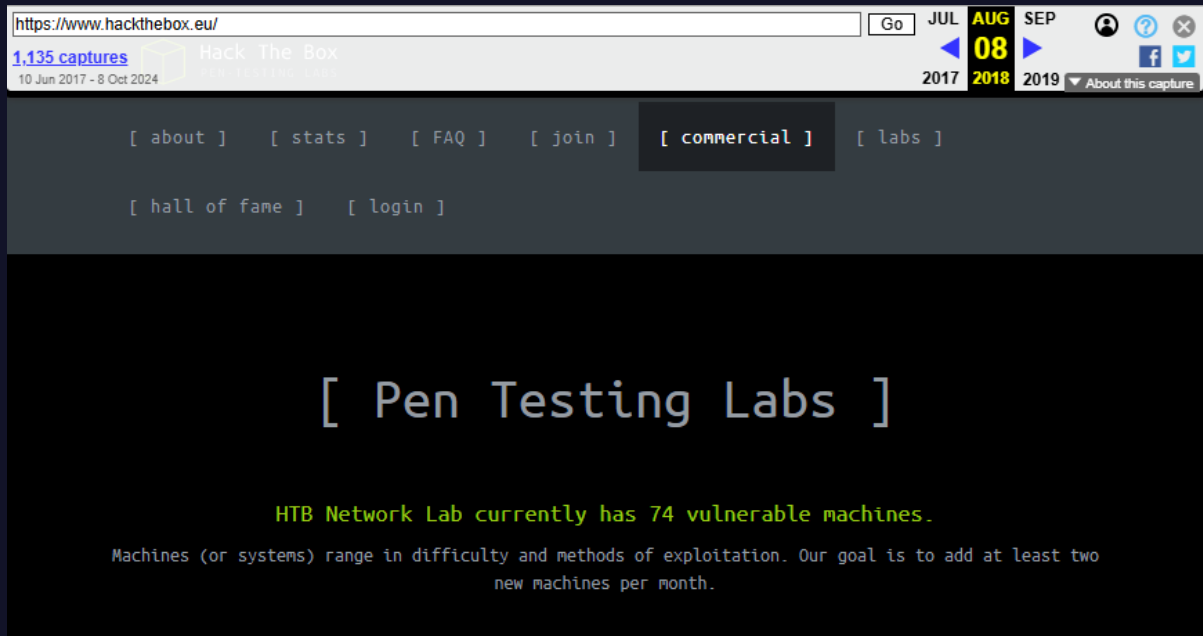
```
$ wget -O ReconSpider.zip
https://academy.hackthebox.com/storage/modules/144/ReconSpider.v1.2.zip
$ unzip ReconSpider.zip
$ python3 ReconSpider.py http://inlanefreight.com
$ cat results.json
```

```
"comments": [
  "<!--/overlay-->",
  "<!--Sidebar Area-->",
  "<!--\nSkip to content<div class=\"wrapper\">\n<header class=\"transportex-
thead\">\n\t<!--===== Header =====-->",
  "<!-- Right nav -->",
  "<!--===== feature-product =====-->",
  "<!-- /Navigation -->",
  "<!-- /Right nav -->",
  "<!-- TO-DO: change the location of future reports to inlanefreight-
comp133.s3.amazonaws.com -->",
  "<!-- /navbar-toggle -->",
  "<!-- Blog Area -->",
  "<!--===== TOP BAR =====-->",
  "<!-- navbar-toggle -->",
  "<!-- #secondary -->",
```

Web Archives

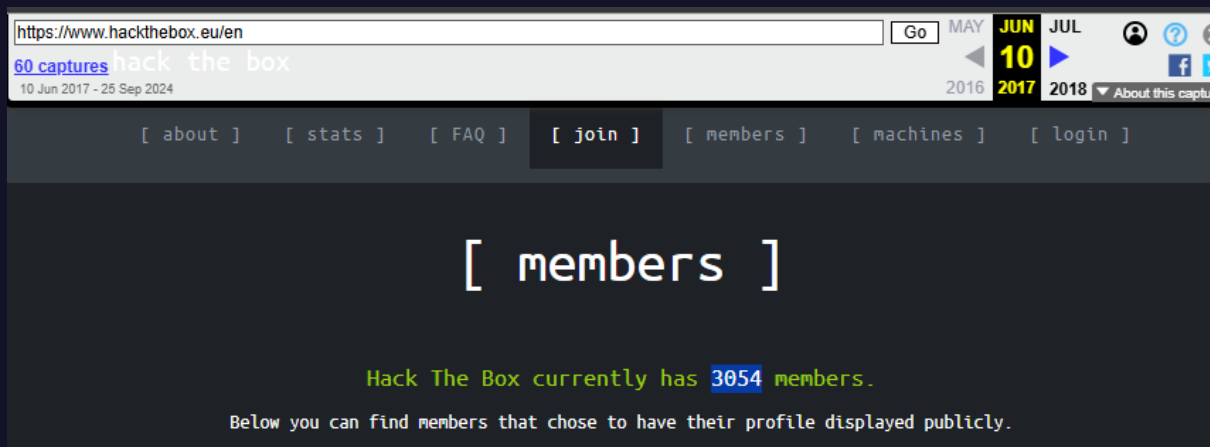
How many Pen Testing Labs did HackTheBox have on the 8th August 2018? Answer with an integer, eg 1234.

Answer: 74



How many members did HackTheBox have on the 10th June 2017? Answer with an integer, eg 1234.

Answer: 3054



Going back to March 2002, what website did the facebook.com domain redirect too?
Answer with the full domain, eg http://www.facebook.com/


Answer: http://site.aboutface.com/

According to the paypal.com website in October 1999, what could you use to "beam money to anyone"? Answer with the product name, eg My Device, remove the ™ from your answer.

Answer: Palm Organizer

http://paypal.com/ SEP 13 1998


263,950 captures
13 Oct 1999 - 10 Oct 2024




LOGIN NAME: PASSWORD:

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New User? Sign up [now!](#)



PayPal™ lets you beam money to anyone with a Palm™ Organizer. 

PayPal™ lets you send money to anyone with an email address.

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Going back to November 1998 on google.com, what address hosted the non-alpha "Google Search Engine Prototype" of Google? Answer with the full address, eg <http://google.com>

Answer: <http://google.stanford.edu/>




Going back to March 2000 on www.iana.org/, when exactly was the site last updated?
Answer with the date in the footer, eg 11-March-99

Answer: 17-December-99

http://www.iana.org/ Go APR **MAR** MAY 03 1999 2000 2001 About this capture

7,896 captures
10 Dec 1997 - 9 Oct 2024



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This site is mirrored at <http://iana.netnod.se> with the generous assistance of the Royal Institute of Technology's Network Operations Centre, and Netnod AB, operators of the D-GIX, Stockholm, Sweden.

Please send comments on this web site to: webmaster@iana.org

Page Updated 17-December-99.

According to the wikipedia.com snapshot taken in March 2001, how many pages did they have over? Answer with the number they state without any commas, eg 2000 not 2,000

Answer: 3000

http://www.wikipedia.com/ Go FEB MAR MAY 31 2000 2001 2002 About this capture

55,110 captures
31 Mar 2001 - 9 Oct 2024

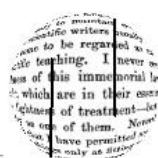
HomePage

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Welcome to **Wikipedia**! We're writing a complete encyclopedia from scratch, collaboratively. We started work in January 2001. We've got over **3,000 pages** already. We want to make over 100,000. So, let's get to work! Write a little (or a lot) about what you know! Read our welcome message here: [Welcome, newcomers!](#)

Some questions you might have are answered below, but why not first explore a few links?

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Skills Assessment

What is the IANA ID of the registrar of the inlanefreight.com domain?

Answer: 468

\$ whois inlanefreight.com

```
Domain Name: INLANEFREIGHT.COM
Registry Domain ID: 2420436757_DOMAIN_COM-VRSN
Registrar WHOIS Server: whois.registrar.amazon.com
Registrar URL: http://registrar.amazon.com
Updated Date: 2024-07-02T22:07:11Z
Creation Date: 2019-08-05T22:43:09Z
Registry Expiry Date: 2025-08-05T22:43:09Z
Registrar: Amazon Registrar, Inc.
Registrar IANA ID: 468
```

*What http server software is powering the inlanefreight.htb site on the target system?
Respond with the name of the software, not the version, e.g., Apache.*

Answer: nginx

\$ whatweb http://83.136.254.47:31018

```
http://83.136.254.47:31018 [200 OK] Country[FINLAND][FI], HTML5,
HTTPServer[nginx/1.26.1], IP[83.136.254.47], Title[inlanefreight], nginx[1.26.1]
```

What is the API key in the hidden admin directory that you have discovered on the target system?

Answer: e963d863ee0e82ba7080fbf558ca0d3f

\$ sudo nano /etc/hosts

```
83.136.254.47 web1337.inlanefreight.htb
```

\$ gobuster vhost -u http://inlanefreight.htb:31018 -w

/usr/share/seclists/Discovery/DNS/subdomains-top1million-110000.txt --append-domain

```
Found: web1337.inlanefreight.htb:31018 Status: 200 [Size: 104]
```

```
$ ffuf -recursion -recursion-depth 1 -u http://web1337.inlanefreight.htb:31018/FUZZ -w /opt/useful/seclists/Discovery/Web-Content/common.txt
```

Found robots.txt

```
$ curl http://web1337.inlanefreight.htb:31018/robots.txt
```

```
User-agent: *
Allow: /index.html
Allow: /index-2.html
Allow: /index-3.html
Disallow: /admin_h1dd3n
```

```
$ curl http://web1337.inlanefreight.htb:31018/admin_h1dd3n/
```

```
<!DOCTYPE html><html><head><title>web1337 admin</title></head><body><h1>Welcome to
web1337 admin site</h1><h2>The admin panel is currently under maintenance, but the API is
still accessible with the key e963d863ee0e82ba7080fbf558ca0d3f</h2></body></html>
```



After crawling the inlanefreight.htb domain on the target system, what is the email address you have found? Respond with the full email, e.g., mail@inlanefreight.htb.

Answer: 1337testing@inlanefreight.htb

What is the API key the inlanefreight.htb developers will be changing too?

Answer: ba988b835be4aa97d068941dc852ff33

```
$ gobuster vhost -u http://web1337.inlanefreight.htb:31018 -w  
/usr/share/seclists/Discovery/DNS/subdomains-top1million-110000.txt --append-domain
```

```
Found: dev.web1337.inlanefreight.htb:PORT Status: 200
```

```
$ sudo nano /etc/hosts  
83.136.254.47 dev.web1337.inlanefreight.htb
```

```
$ pip3 install scrapy
```

```
$ wget -O ReconSpider.zip
```

```
https://academy.hackthebox.com/storage/modules/144/ReconSpider.v1.2.zip
```

```
$ unzip ReconSpider.zip
```

```
$ python3 ReconSpider.py http://dev.web1337.inlanefreight.htb:31018/
```

```
$ cat results.json
```

```
{  
  "emails": [  
    "1337testing@inlanefreight.htb"  
  ],  
  .....
```

```
"comments": [  
  "<!-- Remember to change the API key to
```

```
ba988b835be4aa97d068941dc852ff33 -->"
```