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Course: INT 302Kali Linux Tools and System Security – Lab 1: Reconnaissance (Information Gathering)

### Lab Steps

### Step 1: Get the IP Address of a Domain Using ping

#### Exercise 1:

Use the ping command to find the IP addresses of the following domains:

facebook.com twitter.com amazon.com

#### **Record Your Answers:**

1. facebook.com: \_\_\_\_\_104.244.42.129

```
File Actions Edit View Help

(kali@ kali)-[~]

ping facebook.com

PING facebook.com (157.240.214.35) 56(84) bytes of data.

64 bytes from 157.240.214.35: icmp_seq=1 ttl=128 time=282 ms

64 bytes from 157.240.214.35: icmp_seq=2 ttl=128 time=282 ms

64 bytes from 157.240.214.35: icmp_seq=3 ttl=128 time=326 ms

64 bytes from 157.240.214.35: icmp_seq=4 ttl=128 time=284 ms

64 bytes from 157.240.214.35: icmp_seq=5 ttl=128 time=274 ms
```

2. twitter.com: 104.244.42.129

```
File Actions Edit View Help

(kali@kali)-[~]

$ ping twitter.com

PING twitter.com (104.244.42.65) 56(84) bytes of data.

64 bytes from 104.244.42.65: icmp_seq=1 ttl=128 time=280 ms

64 bytes from 104.244.42.65: icmp_seq=2 ttl=128 time=242 ms

64 bytes from 104.244.42.65: icmp_seq=3 ttl=128 time=249 ms

64 bytes from 104.244.42.65: icmp_seq=4 ttl=128 time=239 ms

64 bytes from 104.244.42.65: icmp_seq=5 ttl=128 time=232 ms

64 bytes from 104.244.42.65: icmp_seq=6 ttl=128 time=357 ms
```

amazon.com: \_\_\_\_\_205.251.242.103

```
(kali@kali)-[~]

ping amazon.com

PING amazon.com (205.251.242.103) 56(84) bytes of data.

64 bytes from 205.251.242.103: icmp_seq=1 ttl=128 time=279 ms

64 bytes from 205.251.242.103: icmp_seq=2 ttl=128 time=518 ms

64 bytes from 205.251.242.103: icmp_seq=3 ttl=128 time=318 ms

64 bytes from 205.251.242.103: icmp_seq=4 ttl=128 time=434 ms

64 bytes from 205.251.242.103: icmp_seq=5 ttl=128 time=393 ms
```

**Exercise 2: Retrieve Domain Registration Details Using whois** 

Run the whois command for the following domains:

- github.com
- linkedin.com

apple.com

### **Answer These Questions:**

What is the registration expiration date for github.com? 2026-10-09T18:20:50Z

```
(kali@kali)=[~]
    whois github.com
    Domain Name: GITHUB.COM
    Registry Domain ID: 1264983250_DOMAIN_COM-VRSN
    Registrar WHOIS Server: whois.markmonitor.com
    Registrar URL: http://www.markmonitor.com
    Updated Date: 2024-09-07T09:16:32Z
    Creation Date: 2007-10-09T18:20:50Z
    Registry Expiry Date: 2026-10-09T18:20:50Z
    Registrar: MarkMonitor Inc.
```

2. Who is the registrar for linkedin.com?

MarkMonitor, Inc.

```
Registrar: MarkMonitor, Inc.
Registrar IANA ID: 292
Registrar Abuse Contact Email: abusecomplaints@markmonitor.com
Registrar Abuse Contact Phone: +1.2086851750
```

3. What country is the registrant of apple.com from? <u>CA/US</u>

```
Registrant Name: REDACTED FOR PRIVACY
Registrant Organization: Apple Inc.
Registrant Street: REDACTED FOR PRIVACY
Registrant City: REDACTED FOR PRIVACY
Registrant State/Province: CA
Registrant Postal Code: REDACTED FOR PRIVACY
Registrant Country: US
```

### Exercise 3: Perform a DNS Lookup Using nslookup

Use nslookup to look up DNS information for the following domains:

- · bbc.co.uk
- · netflix.com

### **Answer These Questions:**

1. What is the IP address for bbc.co.uk? <u>192.168.23.2</u>

2. What are the name servers (NS) for netflix.com?

```
192.168.23.2
```

# **INT302: Kali Linux Tools and System Security**

# Lab 2: Website Enumeration and Information Gathering

#### Exercise 1:

Run the whatweb command to detect technologies for the following targets:

## example.com

http://example.com [200 OK] Country [EUROPEAN UNION] [EU], HTML5, HTTPServer [ECAcc (nyd/D166)], IP [93.184.215.14], Title [Example Domain]

```
File Actions Edit View Help

(kali@ kali)-[~]

$\frac{\text{kali@ kali}}{\text{substite}} = \text{com}

http://example.com [200 OK] Country[EUROPEAN UNION][\text{EU}], HTML5, HTTPServer[ECAcc (nyd/D118)], IP[93.1 84.215.14], Title[Example Domain]
```

#### stackoverflow.com

http://stackoverflow.com [301 Moved Permanently] Cookies[\_\_cf\_bm,\_cfuvid],
Country[UNITED STATES][US], HTTPServer[cloudflare], HttpOnly[\_\_cf\_bm,\_cfuvid],
IP[104.18.32.7], RedirectLocation[https://stackoverflow.com/], Title[301 Moved Permanently],
UncommonHeaders[x-dns-prefetch-control,cf-ray]

https://stackoverflow.com/ [200 OK] Cookies[\_\_cf\_bm,\_\_cflb,\_cfuvid,prov], Country[UNITED STATES][US], Email[apple-touch-icon@2.png], HTML5, HTTPServer[cloudflare], HttpOnly[\_\_cf\_bm,\_\_cflb,\_cfuvid,prov], IP[104.18.32.7], JQuery[3.7.1], Open-Graph-Protocol, OpenSearch[/opensearch.xml], Script[application/json,text/uri-list,true], StackExchange, Strict-Transport-Security[max-age=15552000], Title[Stack Overflow - Where Developers Learn, Share, & Developers Learn, & Developers Learn, & Developers Learn, & Developers Learn, & Develope

### github.com

http://github.com [301 Moved Permanently] Country[UNITED STATES][US], IP[140.82.121.3], RedirectLocation[https://github.com/]

https://github.com/ [200 OK] Content-Language[en-US], Cookies[\_gh\_sess,\_octo,logged\_in], Country[UNITED STATES][US], HTML5, HTTPServer[GitHub.com], HttpOnly[\_gh\_sess,logged\_in], IP[140.82.121.3], Open-Graph-Protocol[object][1401488693436528],

OpenSearch[/opensearch.xml], Script[application/javascript,application/json,text/javascript], Strict-Transport-Security[max-age=31536000; includeSubdomains; preload], Title[GitHub · Build and ship software on a single, collaborative platform · GitHub], UncommonHeaders[x-content-type-options,referrer-policy,content-security-policy,x-github-request-id], X-Frame-Options[deny], X-XSS-Protection[0]

## **Exercise 2: Perform Aggressive Scanning Using whatweb**

Perform an aggressive scan on the following targets:

#### google.com

WhatWeb http://google.com

Status : 301 Moved Permanently

Title : 301 MovedIP : 172.217.17.14

Country: UNITED STATES, US

Summary : HTTPServer[gws], RedirectLocation[http://www.google.com/],

UncommonHeaders[content-security-policy-report-only], X-Frame-Options[SAMEORIGIN], X-XSS-Protection[0]

- Detected Plugins:
- [ HTTPServer ]
- HTTP server header string. This plugin also attempts to
- identify the operating system from the server header.
- String : gws (from server string)
- [ RedirectLocation ]
- HTTP Server string location. used with http-status 301 and 302
- String: http://www.google.com/ (from location)
- [ UncommonHeaders ]
- Uncommon HTTP server headers. The blacklist includes all the standard headers and many non standard but common ones. Interesting but fairly common headers should have their own plugins, eg. x-powered-by, server and x-aspnet-version. Info about headers can be found at www.http-stats.com
- String : content-security-policy-report-only (from headers)
- •
- [ X-Frame-Options ]

```
This plugin retrieves the X-Frame-Options value from the
           HTTP header. - More Info:
           http://msdn.microsoft.com/en-us/library/cc288472%28VS.85%29.
           aspx
           String
                    : SAMEORIGIN
       [X-XSS-Protection]
           This plugin retrieves the X-XSS-Protection value from the
           HTTP header. - More Info:
           http://msdn.microsoft.com/en-us/library/cc288472%28VS.85%29.
           aspx
           String
                    : 0
       HTTP Headers:
           HTTP/1.1 301 Moved Permanently
           Location: http://www.google.com/
           Content-Type: text/html; charset=UTF-8
           Content-Security-Policy-Report-Only: object-src 'none';base-uri 'self';script-src
'nonce-lk7kWABEWk8muHd2D5qIIg' 'strict-dynamic' 'report-sample' 'unsafe-eval' 'unsafe-inline'
https://csp.withgoogle.com/csp/gws/other-hp
           Date: Sat, 02 Nov 2024 19:40:55 GMT
           Expires: Mon, 02 Dec 2024 19:40:55 GMT
           Cache-Control: public, max-age=2592000
           Server: gws
           Content-Length: 219
           X-XSS-Protection: 0
           X-Frame-Options: SAMEORIGIN
           Connection: close
       WhatWeb report for http://www.google.com/
       Status: 200 OK
       Title : Google
       IΡ
             : 142.250.178.164
       Country: UNITED STATES, US
       Summary: Cookies[AEC,NID], HTML5, HTTPServer[gws], HttpOnly[AEC,NID], Script,
UncommonHeaders[content-security-policy-report-only], X-Frame-Options[SAMEORIGIN], X-
XSS-Protection[0]
       Detected Plugins:
       [Cookies]
           Display the names of cookies in the HTTP headers. The
           values are not returned to save on space.
                    : AEC
           String
           String
                     : NID
       [HTML5]
           HTML version 5, detected by the doctype declaration
```

```
[HTTPServer]
    HTTP server header string. This plugin also attempts to
    identify the operating system from the server header.
    String
             : gws (from server string)
[HttpOnly]
    If the HttpOnly flag is included in the HTTP set-cookie
    response header and the browser supports it then the cookie
    cannot be accessed through client side script - More Info:
    http://en.wikipedia.org/wiki/HTTP_cookie
    String
             : AEC,NID
[Script]
    This plugin detects instances of script HTML elements and
    returns the script language/type.
[ UncommonHeaders ]
    Uncommon HTTP server headers. The blacklist includes all
    the standard headers and many non standard but common ones.
    Interesting but fairly common headers should have their own
    plugins, eg. x-powered-by, server and x-aspnet-version.
    Info about headers can be found at www.http-stats.com
    String
             : content-security-policy-report-only (from headers)
[X-Frame-Options]
    This plugin retrieves the X-Frame-Options value from the
    HTTP header. - More Info:
    http://msdn.microsoft.com/en-us/library/cc288472%28VS.85%29.
    aspx
    String
             : SAMEORIGIN
[ X-XSS-Protection ]
    This plugin retrieves the X-XSS-Protection value from the
    HTTP header. - More Info:
    http://msdn.microsoft.com/en-us/library/cc288472%28VS.85%29.
    aspx
    String
             : 0
HTTP Headers:
    HTTP/1.1 200 OK
    Date: Sat, 02 Nov 2024 19:40:57 GMT
    Expires: -1
    Cache-Control: private, max-age=0
    Content-Type: text/html; charset=ISO-8859-1
```

- Content-Security-Policy-Report-Only: object-src 'none';base-uri 'self';script-src 'nonce-mk9ZD562ADjFOMytzt4mjw' 'strict-dynamic' 'report-sample' 'unsafe-eval' 'unsafe-inline' https://csp.withgoogle.com/csp/gws/other-hp
- P3P: CP="This is not a P3P policy! See g.co/p3phelp for more info."

Content-Encoding: gzip

• Server: gws

Content-Length: 9038X-XSS-Protection: 0

X-Frame-Options: SAMEORIGIN

Set-Cookie:

AEC=AVYB7coGaxNT5aA0F5qg9CUVoTXvocvUkOu1nw3nR4Rxxy357slM7H67tw; expires=Thu, 01-May-2025 19:40:57 GMT; path=/; domain=.google.com; Secure; HttpOnly; SameSite=lax

Set-Cookie:

NID=518=kXLNMvC5qMkixoOjof3UPEyTApzOrNKllqSr3hIX2B6rsUjHibpBZi8A0nD\_9FSAewrzKkH bbnxgKhZiAqzdjigtXb9mw2AzuL5y4IX7zdareglRw3ZaccVVgPTZg5IYVBLmZRpB2kSqZn7e53bF\_jo P7GWmKR3\_ckZxi-qkyheJdPct28jljyFcvaPu0ezyDZit; expires=Sun, 04-May-2025 19:40:57 GMT; path=/; domain=.google.com; HttpOnly

Connection: close

#### facebook.com

WhatWeb report for http://facebook.com

Status: 301 Moved Permanently

Title : <None>

IP : <Unknown>

Country: <Unknown>

Summary: HTTPServer[proxygen-bolt], RedirectLocation[https://facebook.com/]

### **Detected Plugins:**

#### [ HTTPServer ]

HTTP server header string. This plugin also attempts to

identify the operating system from the server header.

String : proxygen-bolt (from server string)

### [ RedirectLocation ]

HTTP Server string location. used with http-status 301 and

302

String : https://facebook.com/ (from location)

```
HTTP/1 1 3
```

HTTP/1.1 301 Moved Permanently

Location: https://facebook.com/

Content-Type: text/plain

Server: proxygen-bolt

Date: Tue, 05 Nov 2024 12:00:08 GMT

Connection: close

Content-Length: 0

WhatWeb report for https://facebook.com/

Status: 301 Moved Permanently

Title : <None>

IP : <Unknown>

Country : <Unknown>

Summary: RedirectLocation[https://www.facebook.com/], Strict-Transport-Security[maxage=15552000; preload], UncommonHeaders[x-fb-debug,x-fb-connection-quality,alt-svc]

**Detected Plugins:** 

[ RedirectLocation ]

HTTP Server string location. used with http-status 301 and

302

String: https://www.facebook.com/ (from location)

[Strict-Transport-Security]

Strict-Transport-Security is an HTTP header that restricts a web browser from accessing a website without the security of the HTTPS protocol.

String: max-age=15552000; preload

[ UncommonHeaders ]

Uncommon HTTP server headers. The blacklist includes all

the standard headers and many non standard but common ones.

Interesting but fairly common headers should have their own

plugins, eg. x-powered-by, server and x-aspnet-version.

Info about headers can be found at www.http-stats.com

String : x-fb-debug,x-fb-connection-quality,alt-svc (from headers)

### **HTTP Headers:**

HTTP/1.1 301 Moved Permanently

Location: https://www.facebook.com/

Strict-Transport-Security: max-age=15552000; preload

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

X-FB-Debug:

x7cEOEN6lcRKqeNkjD0by7uDQH6oehEU5OLqObV+gv9qkVbpi45p6vpvDDK1CMXNoafa6m+1U8uIR2VuIl 7i+g==

Date: Tue, 05 Nov 2024 12:00:11 GMT

X-FB-Connection-Quality: EXCELLENT; q=0.9, rtt=15, rtx=0, c=10, mss=1392, tbw=2526, tp=-1, tpl=-1, uplat=120, ullat=0

Alt-Svc: h3=":443"; ma=86400

Connection: close
Content-Length: 0

WhatWeb report for https://www.facebook.com/

Status: 302 Found

Title : <None>

IP : <Unknown>

Country : < Unknown>

Summary: RedirectLocation[https://web.facebook.com/?\_rdc=1&\_rdr], Strict-Transport-Security[maxage=15552000; preload], UncommonHeaders[reporting-endpoints,report-to,cross-origin-opener-policy,x-fb-zr-redirect,x-fb-debug,x-fb-connection-quality,alt-svc]

**Detected Plugins:** 

[ RedirectLocation ]

```
HTTP Server string location. used with http-status 301 and
    302
             : https://web.facebook.com/? rdc=1& rdr (from location)
    String
[Strict-Transport-Security]
    Strict-Transport-Security is an HTTP header that restricts
    a web browser from accessing a website without the security
    of the HTTPS protocol.
    String
             : max-age=15552000; preload
[ UncommonHeaders ]
    Uncommon HTTP server headers. The blacklist includes all
    the standard headers and many non standard but common ones.
    Interesting but fairly common headers should have their own
    plugins, eg. x-powered-by, server and x-aspnet-version.
    Info about headers can be found at www.http-stats.com
             : reporting-endpoints, report-to, cross-origin-opener-policy, x-fb-zr-redirect, x-fb-debug, x-
fb-connection-quality, alt-svc (from headers)
HTTP Headers:
    HTTP/1.1 302 Found
    Location: https://web.facebook.com/? rdc=1& rdr
    reporting-endpoints:
coop_report="https://www.facebook.com/browser_reporting/coop/?minimize=0"
    report-to:
{"max_age":2592000,"endpoints":[{"url":"https:\/\/www.facebook.com\/browser_reporting\/coop\/?
minimize=0"}],"group":"coop_report","include_subdomains":true}
    cross-origin-opener-policy: unsafe-none
    x-fb-zr-redirect: 02 | 1730894413 |
    Strict-Transport-Security: max-age=15552000; preload
    Content-Type: text/html; charset="utf-8"
```

X-FB-Debug:

G6oNb6ufM7QsliWsECC70ge+znl4hoCUdyX0rhuyhM/n4aUd6udUHmmgBkJiCZB7IRHJAdSK5Kpl5resyZH zNg==

Date: Tue, 05 Nov 2024 12:00:13 GMT

X-FB-Connection-Quality: EXCELLENT; q=0.9, rtt=14, rtx=0, c=10, mss=1392, tbw=2526, tp=-1, tpl=-1, uplat=128, ullat=0

Alt-Svc: h3=":443"; ma=86400

Connection: close
Content-Length: 0

WhatWeb report for https://web.facebook.com/?\_rdc=1&\_rdr

Status: 200 OK

Title : <None>

IP : <Unknown>

Country: <Unknown>

Summary: Cookies[fr,sb], HTML5, HttpOnly[fr,sb], Meta-Refresh-Redirect[/?\_rdc=1&\_rdr&\_fb\_noscript=1], PasswordField[pass],

Script[application/ld+json,text/javascript], Strict-Transport-Security[max-age=15552000; preload], UncommonHeaders[reporting-endpoints,report-to,content-security-policy-report-only,content-security-policy,document-policy,permissions-policy,cross-origin-resource-policy,cross-origin-opener-policy,x-content-type-options,x-fb-debug,x-fb-connection-quality,alt-svc], X-Frame-Options[DENY], X-XSS-Protection[0]

## **Detected Plugins:**

### [Cookies]

Display the names of cookies in the HTTP headers. The

values are not returned to save on space.

String : fr

String : sb

### [HTML5]

HTML version 5, detected by the doctype declaration

[HttpOnly]

If the HttpOnly flag is included in the HTTP set-cookie response header and the browser supports it then the cookie cannot be accessed through client side script - More Info: http://en.wikipedia.org/wiki/HTTP cookie

String : fr,sb

## [ Meta-Refresh-Redirect ]

Meta refresh tag is a deprecated URL element that can be used to optionally wait x seconds before reloading the current page or loading a new page. More info: https://secure.wikimedia.org/wikipedia/en/wiki/Meta\_refresh

String :/?\_rdc=1&\_rdr&\_fb\_noscript=1

## [ PasswordField ]

find password fields

String : pass (from field name)

### [Script]

This plugin detects instances of script HTML elements and returns the script language/type.

String : application/ld+json,text/javascript

### [Strict-Transport-Security]

Strict-Transport-Security is an HTTP header that restricts a web browser from accessing a website without the security of the HTTPS protocol.

String : max-age=15552000; preload

[ UncommonHeaders ]

Uncommon HTTP server headers. The blacklist includes all the standard headers and many non standard but common ones. Interesting but fairly common headers should have their own plugins, eg. x-powered-by, server and x-aspnet-version. Info about headers can be found at www.http-stats.com

String : reporting-endpoints,report-to,content-security-policy-report-only,content-security-policy,document-policy,permissions-policy,cross-origin-resource-policy,cross-origin-opener-policy,x-content-type-options,x-fb-debug,x-fb-connection-quality,alt-svc (from headers)

### [X-Frame-Options]

This plugin retrieves the X-Frame-Options value from the

HTTP header. - More Info:

http://msdn.microsoft.com/en-us/library/cc288472%28VS.85%29.

aspx

String : DENY

### [X-XSS-Protection]

This plugin retrieves the X-XSS-Protection value from the

HTTP header. - More Info:

http://msdn.microsoft.com/en-us/library/cc288472%28VS.85%29.

aspx

String: 0

### **HTTP Headers:**

HTTP/1.1 200 OK

Vary: Accept-Encoding

Content-Encoding: gzip

Set-Cookie: fr=0WvkSR9EqlKfwmT3y..BnKgjQ..AAA.0.0.BnKgjQ.AWX0WIuA3pA; expires=Mon, 03-Feb-2025 12:00:16 GMT; Max-Age=7776000; path=/; domain=.facebook.com; secure; httponly

Set-Cookie: sb=0AgqZ4rhfLquxeP7fYx0ZEO6; expires=Wed, 10-Dec-2025 12:00:16 GMT; Max-Age=34560000; path=/; domain=.facebook.com; secure; httponly

reporting-endpoints:

coop\_report="https://web.facebook.com/browser\_reporting/coop/?minimize=0", default="https://web.facebook.com/ajax/browser\_error\_reports/?device\_level=unknown&brsid=7433 763825315766298", permissions\_policy="https://web.facebook.com/ajax/browser\_error\_reports/"

#### report-to:

 $\label{lem:coop} $$ {\text{max}_age}:2592000,"endpoints}::[{"url":"https:\/\web.facebook.com\/browser_reporting\/coop\/?minimize=0"}],"group":"coop_report","include_subdomains":true}, $$ {\text{max}_age}:259200,"endpoints}::[{"url":"https:\/\web.facebook.com\/ajax\/browser_error_reports\/?device_level=unknown&brsid=7433763825315766298"}]}, $$ {\text{max}_age}::21600,"endpoints}::[{"url":"https:\/\web.facebook.com\/ajax\/browser_error_reports\/"}],"group}:"permissions_policy"}$ 

content-security-policy-report-only: default-src data: blob: 'self' https://\*.fbsbx.com 'unsafe-inline' \*.facebook.com \*.fbcdn.net 'unsafe-eval';script-src 'report-sample' \*.facebook.com \*.fbcdn.net \*.facebook.net 127.0.0.1:\* 'unsafe-inline' blob: data: 'self' connect.facebook.net 'unsafe-eval' https://\*.google-analytics.com \*.google.com;style-src \*.fbcdn.net data: \*.facebook.com 'unsafe-inline' https://fonts.googleapis.com;connect-src \*.facebook.com facebook.com \*.fbcdn.net \*.facebook.net wss://\*.facebook.com:\* wss://\*.whatsapp.com:\* wss://\*.fbcdn.net attachment.fbsbx.com ws://localhost:\* blob: \*.cdninstagram.com 'self' http://localhost:3103 wss://gateway.facebook.com wss://edge-chat.facebook.com wss://snaptu-d.facebook.com wss://kaios-d.facebook.com/ v.whatsapp.net \*.fbsbx.com \*.fb.com https://\*.google-analytics.com;font-src data: \*.facebook.com \*.fbcdn.net \*.fbsbx.com https://fonts.gstatic.com;img-src \*.fbcdn.net \*.facebook.com data: https://\*.fbsbx.com facebook.com \*.cdninstagram.com fbsbx.com fbcdn.net connect.facebook.net \*.carriersignal.info blob: android-webview-video-poster: \*.whatsapp.net \*.fb.com \*.oculuscdn.com \*.tenor.co \*.tenor.com \*.giphy.com https://paywithmybank.com/ https://\*.paywithmybank.com/ https://www.googleadservices.com https://googleads.g.doubleclick.net https://\*.googleanalytics.com; media-src \*.cdninstagram.com blob: \*.fbcdn.net \*.fbsbx.com www.facebook.com \*.facebook.com data: \*.tenor.co \*.tenor.com https://\*.giphy.com;frame-src \*.facebook.com \*.fbsbx.com fbsbx.com data: www.instagram.com \*.fbcdn.net https://paywithmybank.com/ https://\*.paywithmybank.com/ https://www.googleadservices.com https://googleads.g.doubleclick.net https://www.google.com https://td.doubleclick.net \*.google.com \*.doubleclick.net;worker-src blob: \*.facebook.com data:;report-uri https://web.facebook.com/csp/reporting/?minimize=0;

content-security-policy: default-src data: blob: 'self' https://\*.fbsbx.com 'unsafe-inline' \*.facebook.com \*.fbcdn.net 'unsafe-eval';script-src 'report-sample' \*.facebook.com \*.fbcdn.net \*.facebook.net 127.0.0.1:\* 'unsafe-inline' blob: data: 'self' connect.facebook.net 'unsafe-eval' https://\*.google-analytics.com \*.google.com;style-src \*.fbcdn.net data: \*.facebook.com 'unsafe-inline' https://fonts.googleapis.com;connect-src \*.facebook.com facebook.com \*.fbcdn.net \*.facebook.net wss://\*.facebook.com:\* wss://\*.whatsapp.com:\* wss://\*.fbcdn.net attachment.fbsbx.com ws://localhost:\* blob: \*.cdninstagram.com 'self' http://localhost:3103 wss://gateway.facebook.com wss://edge-chat.facebook.com wss://snaptu-d.facebook.com wss://kaios-d.facebook.com/ v.whatsapp.net \*.fbsbx.com \*.fb.com https://\*.google-analytics.com;font-src data: \*.facebook.com \*.fbcdn.net \*.fbsbx.com https://fonts.gstatic.com;img-src \*.fbcdn.net \*.facebook.com data: https://\*.fbsbx.com facebook.com \*.cdninstagram.com fbsbx.com fbcdn.net connect.facebook.net \*.carriersignal.info blob: android-webview-video-poster: \*.whatsapp.net \*.fb.com \*.oculuscdn.com \*.tenor.co \*.tenor.com \*.giphy.com https://paywithmybank.com/ https://\*.paywithmybank.com/ https://www.googleadservices.com https://googleads.g.doubleclick.net https://\*.googleanalytics.com; media-src \*.cdninstagram.com blob: \*.fbcdn.net \*.fbsbx.com www.facebook.com \*.facebook.com data: \*.tenor.co \*.tenor.com https://\*.giphy.com;frame-src \*.facebook.com \*.fbsbx.com fbsbx.com data: www.instagram.com \*.fbcdn.net https://paywithmybank.com/ https://\*.paywithmybank.com/ https://www.googleadservices.com https://googleads.g.doubleclick.net https://www.google.com https://td.doubleclick.net \*.google.com \*.doubleclick.net;worker-src blob: \*.facebook.com data:;block-all-mixed-content;upgrade-insecure-requests;

document-policy: force-load-at-top

permissions-policy: accelerometer=(), attribution-reporting=(self), autoplay=(), bluetooth=(), browsing-topics=(self), camera=(self), ch-device-memory=(), ch-downlink=(), ch-dpr=(), ch-ect=(), ch-rtt=(), ch-save-data=(), ch-ua-arch=(), ch-ua-bitness=(), ch-viewport-height=(), ch-viewport-width=(), ch-width=(), clipboard-read=(self), clipboard-write=(self), compute-pressure=(), display-capture=(self), encrypted-media=(self), fullscreen=(self), gamepad=\*, geolocation=(self), gyroscope=(), hid=(), idle-detection=(), interest-cohort=(self), keyboard-map=(), local-fonts=(), magnetometer=(), microphone=(self), midi=(), otp-credentials=(), payment=(), picture-in-picture=(self), private-state-token-issuance=(), publickey-credentials-get=(self), screen-wake-lock=(), serial=(), shared-storage=(), shared-storage-select-url=(), private-state-token-redemption=(), usb=(), unload=(self), window-management=(), xr-spatial-tracking=(self);report-to="permissions\_policy"

cross-origin-resource-policy: same-origin

cross-origin-opener-policy: unsafe-none

Pragma: no-cache

Cache-Control: private, no-cache, no-store, must-revalidate

Expires: Sat, 01 Jan 2000 00:00:00 GMT

X-Content-Type-Options: nosniff

X-XSS-Protection: 0

X-Frame-Options: DENY

Strict-Transport-Security: max-age=15552000; preload

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

X-FB-Debug:

8mf7+K2Kuxo5VUPwrTYeG7ZAJgWPxnw9xTlsmUoReCbRhXRP2IrddOQKAH6bNtq95PpEa7Qfl/gT12Xmn VsqyA==

Date: Tue, 05 Nov 2024 12:00:16 GMT

X-FB-Connection-Quality: EXCELLENT; q=0.9, rtt=15, rtx=0, c=10, mss=1392, tbw=2524, tp=-1, tpl=-1, uplat=207, ullat=0

Alt-Svc: h3=":443"; ma=86400

Transfer-Encoding: chunked

Connection: close

WhatWeb report for https://web.facebook.com/?\_rdc=1&\_rdr&\_fb\_noscript=1

Status : 200 OK

Title : <None>

IP : <Unknown>

Country: <Unknown>

Summary : Cookies[fr,noscript,sb], HTML5, HttpOnly[fr,sb], PasswordField[pass], Script[application/ld+json,text/javascript], Strict-Transport-Security[max-age=15552000; preload], UncommonHeaders[reporting-endpoints,report-to,content-security-policy-report-only,content-security-policy,document-policy,permissions-policy,cross-origin-resource-policy,cross-origin-opener-policy,x-content-type-options,x-fb-debug,x-fb-connection-quality,alt-svc], X-Frame-Options[DENY], X-XSS-Protection[0]

### **Detected Plugins:**

### [Cookies]

Display the names of cookies in the HTTP headers. The values are not returned to save on space.

String : fr

String : noscript

String : sb

## [HTML5]

HTML version 5, detected by the doctype declaration

### [HttpOnly]

If the HttpOnly flag is included in the HTTP set-cookie response header and the browser supports it then the cookie cannot be accessed through client side script - More Info: http://en.wikipedia.org/wiki/HTTP\_cookie

String : fr,sb

## [ PasswordField ]

find password fields

String : pass (from field name)

## [Script]

This plugin detects instances of script HTML elements and returns the script language/type.

String : application/ld+json,text/javascript

[Strict-Transport-Security]

Strict-Transport-Security is an HTTP header that restricts a web browser from accessing a website without the security of the HTTPS protocol.

String: max-age=15552000; preload

[ UncommonHeaders ]

Uncommon HTTP server headers. The blacklist includes all the standard headers and many non standard but common ones. Interesting but fairly common headers should have their own plugins, eg. x-powered-by, server and x-aspnet-version. Info about headers can be found at www.http-stats.com

String : reporting-endpoints,report-to,content-security-policy-report-only,content-security-policy,document-policy,permissions-policy,cross-origin-resource-policy,cross-origin-opener-policy,x-content-type-options,x-fb-debug,x-fb-connection-quality,alt-svc (from headers)

[ X-Frame-Options ]

This plugin retrieves the X-Frame-Options value from the

HTTP header. - More Info:

http://msdn.microsoft.com/en-us/library/cc288472%28VS.85%29.

aspx

String : DENY

[X-XSS-Protection]

This plugin retrieves the X-XSS-Protection value from the

HTTP header. - More Info:

```
http://msdn.microsoft.com/en-us/library/cc288472%28VS.85%29.
    aspx
             : 0
    String
HTTP Headers:
    HTTP/1.1 200 OK
    Vary: Accept-Encoding
    Content-Encoding: gzip
    Set-Cookie: fr=09rB0ndQYtabCMws3..BnKgjU..AAA.0.0.BnKgjU.AWVML7ceENA; expires=Mon, 03-
Feb-2025 12:00:20 GMT; Max-Age=7776000; path=/; domain=.facebook.com; secure; httponly
    Set-Cookie: noscript=1; path=/; domain=.facebook.com; secure
    Set-Cookie: sb=1AgqZymh nGa91XjeYOt r7r; expires=Wed, 10-Dec-2025 12:00:20 GMT; Max-
Age=34560000; path=/; domain=.facebook.com; secure; httponly
    reporting-endpoints:
coop_report="https://web.facebook.com/browser_reporting/coop/?minimize=0",
default="https://web.facebook.com/ajax/browser_error_reports/?device_level=unknown&brsid=7433
763843639071437", permissions_policy="https://web.facebook.com/ajax/browser_error_reports/"
    report-to:
{"max_age":2592000,"endpoints":[{"url":"https:\/\/web.facebook.com\/browser_reporting\/coop\/?mi
nimize=0"}],"group":"coop report","include subdomains":true},
{"max_age":259200,"endpoints":[{"url":"https:\/\web.facebook.com\/ajax\/browser_error_reports\/?
device_level=unknown&brsid=7433763843639071437"}]},
{"max age":21600,"endpoints":[{"url":"https:\/\/web.facebook.com\/ajax\/browser error reports\/"}]
,"group":"permissions_policy"}
    content-security-policy-report-only: default-src data: blob: 'self' https://*.fbsbx.com 'unsafe-inline'
*.facebook.com *.fbcdn.net 'unsafe-eval';script-src 'report-sample' *.facebook.com *.fbcdn.net
*.facebook.net 127.0.0.1:* 'unsafe-inline' blob: data: 'self' connect.facebook.net 'unsafe-eval'
https://*.google-analytics.com *.google.com;style-src *.fbcdn.net data: *.facebook.com 'unsafe-inline'
https://fonts.googleapis.com;connect-src *.facebook.com facebook.com *.fbcdn.net *.facebook.net
wss://*.facebook.com:* wss://*.whatsapp.com:* wss://*.fbcdn.net attachment.fbsbx.com
ws://localhost:* blob: *.cdninstagram.com 'self' http://localhost:3103 wss://gateway.facebook.com
wss://edge-chat.facebook.com wss://snaptu-d.facebook.com wss://kaios-d.facebook.com/
v.whatsapp.net *.fbsbx.com *.fb.com https://*.google-analytics.com;font-src data: *.facebook.com
*.fbcdn.net *.fbsbx.com https://fonts.gstatic.com;img-src *.fbcdn.net *.facebook.com data:
https://*.fbsbx.com facebook.com *.cdninstagram.com fbsbx.com fbcdn.net connect.facebook.net
*.carriersignal.info blob: android-webview-video-poster: *.whatsapp.net *.fb.com *.oculuscdn.com
*.tenor.co *.tenor.com *.giphy.com https://paywithmybank.com/ https://*.paywithmybank.com/
https://www.googleadservices.com https://googleads.g.doubleclick.net https://*.google-
```

analytics.com;media-src \*.cdninstagram.com blob: \*.fbcdn.net \*.fbsbx.com www.facebook.com \*.facebook.com data: \*.tenor.co \*.tenor.com https://\*.giphy.com;frame-src \*.facebook.com \*.fbsbx.com fbsbx.com data: www.instagram.com \*.fbcdn.net https://paywithmybank.com/

https://\*.paywithmybank.com/ https://www.googleadservices.com https://googleads.g.doubleclick.net

https://www.google.com https://td.doubleclick.net \*.google.com \*.doubleclick.net;worker-src blob: \*.facebook.com data:;report-uri https://web.facebook.com/csp/reporting/?minimize=0;

content-security-policy: default-src data: blob: 'self' https://\*.fbsbx.com 'unsafe-inline' \*.facebook.com \*.fbcdn.net 'unsafe-eval';script-src 'report-sample' \*.facebook.com \*.fbcdn.net \*.facebook.net 127.0.0.1:\* 'unsafe-inline' blob: data: 'self' connect.facebook.net 'unsafe-eval' https://\*.google-analytics.com \*.google.com;style-src \*.fbcdn.net data: \*.facebook.com 'unsafe-inline' https://fonts.googleapis.com;connect-src \*.facebook.com facebook.com \*.fbcdn.net \*.facebook.net wss://\*.facebook.com:\* wss://\*.whatsapp.com:\* wss://\*.fbcdn.net attachment.fbsbx.com ws://localhost:\* blob: \*.cdninstagram.com 'self' http://localhost:3103 wss://gateway.facebook.com wss://edge-chat.facebook.com wss://snaptu-d.facebook.com wss://kaios-d.facebook.com/ v.whatsapp.net \*.fbsbx.com \*.fb.com https://\*.google-analytics.com;font-src data: \*.facebook.com \*.fbcdn.net \*.fbsbx.com https://fonts.gstatic.com;img-src \*.fbcdn.net \*.facebook.com data: https://\*.fbsbx.com facebook.com \*.cdninstagram.com fbsbx.com fbcdn.net connect.facebook.net \*.carriersignal.info blob: android-webview-video-poster: \*.whatsapp.net \*.fb.com \*.oculuscdn.com \*.tenor.co \*.tenor.com \*.giphy.com https://paywithmybank.com/ https://\*.paywithmybank.com/ https://www.googleadservices.com https://googleads.g.doubleclick.net https://\*.googleanalytics.com; media-src \*.cdninstagram.com blob: \*.fbcdn.net \*.fbsbx.com www.facebook.com \*.facebook.com data: \*.tenor.co \*.tenor.com https://\*.giphy.com;frame-src \*.facebook.com \*.fbsbx.com fbsbx.com data: www.instagram.com \*.fbcdn.net https://paywithmybank.com/ https://\*.paywithmybank.com/ https://www.googleadservices.com https://googleads.g.doubleclick.net https://www.google.com https://td.doubleclick.net \*.google.com \*.doubleclick.net;worker-src blob: \*.facebook.com data:;block-all-mixed-content;upgrade-insecure-requests;

document-policy: force-load-at-top

permissions-policy: accelerometer=(), attribution-reporting=(self), autoplay=(), bluetooth=(), browsing-topics=(self), camera=(self), ch-device-memory=(), ch-downlink=(), ch-dpr=(), ch-ect=(), ch-rtt=(), ch-save-data=(), ch-ua-arch=(), ch-ua-bitness=(), ch-viewport-height=(), ch-viewport-width=(), ch-width=(), clipboard-read=(self), clipboard-write=(self), compute-pressure=(), display-capture=(self), encrypted-media=(self), fullscreen=(self), gamepad=\*, geolocation=(self), gyroscope=(), hid=(), idle-detection=(), interest-cohort=(self), keyboard-map=(), local-fonts=(), magnetometer=(), microphone=(self), midi=(), otp-credentials=(), payment=(), picture-in-picture=(self), private-state-token-issuance=(), publickey-credentials-get=(self), screen-wake-lock=(), serial=(), shared-storage=(), shared-storage-select-url=(), private-state-token-redemption=(), usb=(), unload=(self), window-management=(), xr-spatial-tracking=(self);report-to="permissions\_policy"

cross-origin-resource-policy: same-origin

cross-origin-opener-policy: unsafe-none

Pragma: no-cache

Cache-Control: private, no-cache, no-store, must-revalidate

Expires: Sat, 01 Jan 2000 00:00:00 GMT

X-Content-Type-Options: nosniff

X-XSS-Protection: 0

X-Frame-Options: DENY

Strict-Transport-Security: max-age=15552000; preload

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

X-FB-Debug: q57WJhf9FXh5f+iLoR0+mpplZZLLifrC2XgMHU5II/epEWLjqG1XUUAganAW5YYdAA3pgjeqLrLkn7e4ujOE6

Date: Tue, 05 Nov 2024 12:00:20 GMT

X-FB-Connection-Quality: EXCELLENT; q=0.9, rtt=21, rtx=0, c=10, mss=1392, tbw=2524, tp=-1, tpl=-1, uplat=216, ullat=0

Alt-Svc: h3=":443"; ma=86400

Transfer-Encoding: chunked

Connection: close

## INT302: Kali Linux Tools and System Security - Lab 3: Subdomain Hunting

#### Exercise 1:

Run the sublist3r command for the following domains:

• github.com

### [-] Total Unique Subdomains Found: 95

www.github.com

atom-installer.github.com

branch.github.com

brandguide.github.com

camo.github.com

central.github.com

cla.github.com

classroom.github.com

cloud.github.com

f.cloud.github.com

codespaces.github.com

codespaces-dev.github.com

codespaces-ppe.github.com

communication.github.com

www.communication.github.com

m.communication.github.com

res.communication.github.com

t.communication.github.com

community.github.com docs.github.com docs-front-door.github.com dodgeball.github.com edu.github.com education.github.com emails.github.com enterprise.github.com support.enterprise.github.com www.support.enterprise.github.com examregistration.github.com examregistration-api.github.com examregistration-uat.github.com examregistration-uat-api.github.com fast.github.com garage.github.com gist.github.com graphql.github.com www.graphql.github.com graphql-stage.github.com www.graphql-stage.github.com help.github.com helpnext.github.com hq.github.com vpn-ca.iad.github.com id.github.com import.github.com import2.github.com importer2.github.com jira.github.com www.jira.github.com jobs.github.com lab.github.com lab-sandbox.github.com

learn.github.com mac-installer.github.com maintainers.github.com www.maintainers.github.com octostatus-production.github.com offer.github.com partnerportal.github.com www.partnerportal.github.com pkg.github.com porter.github.com porter2.github.com proxima-review-lab.github.com raw.github.com registry.github.com render.github.com render-lab.github.com www.render-lab.github.com review-lab.github.com octocaptcha.review-lab.github.com rs.github.com schrauger.github.com api.security.github.com www.api.security.github.com skyline.github.com www.skyline.github.com slack.github.com smtp.github.com www.smtp.github.comstaging-lab.github.com api.stars.github.com www.api.stars.github.com status.github.com stg.github.com styleguide.github.com

ws.support.github.com
www.ws.support.github.com
talks.github.com
visualstudio.github.com
www.visualstudio.github.com
vscode-auth.github.com
workspaces.github.com

workspaces-ppe.github.com

workspaces-dev.github.com

## • google.com

## [-] Total Unique Subdomains Found: 97

www.google.com

accounts.google.com

freezone.accounts.google.com

adwords.google.com

qa.adz.google.com

answers.google.com

apps-secure-data-connector.google.com

audioads.google.com

checkout.google.com

mtv-da-1.ad.corp.google.com

ads-compare.eem.corp.google.com

da.ext.corp.google.com

m.guts.corp.google.com

m.gutsdev.corp.google.com

login.corp.google.com

mtv-da.corp.google.com

mygeist.corp.google.com

mygeist2010.corp.google.com

proxyconfig.corp.google.com

reseed.corp.google.com

twdsalesgsa.twd.corp.google.com

```
uberproxy.corp.google.com
uberproxy-nocert.corp.google.com
uberproxy-san.corp.google.com
ext.google.com
cag.ext.google.com
cod.ext.google.com
da.ext.google.com
eggroll.ext.google.com
fra-da.ext.google.com
glass.ext.google.com
glass-eur.ext.google.com
glass-mtv.ext.google.com
glass-twd.ext.google.com
hot-da.ext.google.com
hyd-da.ext.google.com
ice.ext.google.com
meeting.ext.google.com
mtv-da.ext.google.com
soaproxyprod01.ext.google.com
soaproxytest01.ext.google.com
spdy-proxy.ext.google.com
spdy-proxy-debug.ext.google.com
twd-da.ext.google.com
flexpack.google.com
www.flexpack.google.com
accounts.flexpack.google.com
gaiastaging.flexpack.google.com
mail.flexpack.google.com
plus.flexpack.google.com
search.flexpack.google.com
freezone.google.com
www.freezone.google.com
accounts.freezone.google.com
gaiastaging.freezone.google.com
```

mail.freezone.google.com news.freezone.google.com plus.freezone.google.com search.freezone.google.com gmail.google.com hosted-id.google.com jmt0.google.com aspmx.l.google.com alt1.aspmx.l.google.com alt2.aspmx.l.google.com alt3.aspmx.l.google.com alt4.aspmx.l.google.com gmail-smtp-in.l.google.com alt1.gmail-smtp-in.l.google.com alt2.gmail-smtp-in.l.google.com alt3.gmail-smtp-in.l.google.com alt4.gmail-smtp-in.l.google.com gmr-smtp-in.l.google.com alt1.gmr-smtp-in.l.google.com alt2.gmr-smtp-in.l.google.com alt3.gmr-smtp-in.l.google.com alt4.gmr-smtp-in.l.google.com vp.video.l.google.com m.google.com freezone.m.google.com mail.google.com freezone.mail.google.com misc.google.com misc-sni.google.com mtalk.google.com mx.google.com ics.prod.google.com sandbox.google.com cert-test.sandbox.google.com

```
ecc-test.sandbox.google.com
services.google.com
talk.google.com
upload.google.com
dg.video.google.com
upload.video.google.com
wifi.google.com
onex.wifi.google.com
Step 2: Directory Discovery Using dirb
Exercise 2:
Perform a directory discovery scan on the following targets:
• <a href="http://example.com">http://example.com</a>
└$ dirb http://example.com
DIRB v2.22
By The Dark Raver
START_TIME: Tue Nov 5 07:11:24 2024
URL_BASE: http://example.com/
WORDLIST_FILES: /usr/share/dirb/wordlists/common.txt
• <a href="http://example.org">http://example.org</a>
-$ dirb http://example.org
DIRB v2.22
By The Dark Raver
START_TIME: Tue Nov 5 07:12:40 2024
URL_BASE: http://example.org/
WORDLIST_FILES: /usr/share/dirb/wordlists/common.txt
```

# **Step 3: Information Gathering Using the Harvester**

## Exercise 3:

Use the Harvester to gather information on the following domain:

• example.com

INVALID SOURCE