

## ***PASSIVE AND ACTIVE RECONNAISSANCE***

### ***AIM:***

To do perform passive and active reconnaissance in TryHackMe platform.

### ***ALGORITHM:***

1. Access the Passive reconnaissance lab in TryHackMe platform using the link below- <https://tryhackme.com/r/room/passiverecon>
2. Click Start AttackBox to run the instance of Kali Linux distribution.
3. Run whois command on the website tryhackme.com and gather information about it.
4. Find the IP address of tryhackme.com using nslookup and dig command.
5. Find out the subdomain of tryhackme.com using DNSDumpster command.
6. Run shodan.io to find out the details- IP address, Hosting Company, Geographical location and Server type and version.
7. Access the Active reconnaissance lab in TryHackMe platform using the link below- <https://tryhackme.com/r/room/activerecon>
8. Click Start AttackBox to run the instance of Kalilinux distribution.
9. Perform active reconnaissance using the commands, traceroute, ping and netcat.

Learn > Passive Reconnaissance

## Passive Reconnaissance

Learn about the essential tools for passive reconnaissance, such as whois, nslookup, and dig.

📶 🌐 ⌚ 60 min 👤 218,167 🏆 🚩

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- Task 1 Introduction
- Task 2 Passive Versus Active Recon
- Task 3 Whois
- Task 4 nslookup and dig
- Task 5 DNSDumpster
- Task 6 Shodan.io
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```
(JackSparrow@Captain)-[~]
$ whois tryhackme.com
Domain Name: TRYHACKME.COM
Registry Domain ID: 2282723194_DOMAIN_COM-VRSN
Registrar WHOIS Server: whois.namecheap.com
Registrar URL: http://www.namecheap.com
Updated Date: 2025-05-11T14:06:02Z
Creation Date: 2018-07-05T19:46:15Z
Registry Expiry Date: 2034-07-05T19:46:15Z
Registrar: NameCheap, Inc.
Registrar IANA ID: 1068
Registrar Abuse Contact Email: abuse@namecheap.com
Registrar Abuse Contact Phone: +1.6613102107
Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited
Name Server: KIP.NS.CLOUDFLARE.COM
Name Server: UMA.NS.CLOUDFLARE.COM
DNSSEC: unsigned
URL of the ICANN Whois Inaccuracy Complaint Form: https://www.icann.org/wicf/
>>> Last update of whois database: 2025-11-15T16:47:08Z <<<
```

```
(JackSparrow@Captain)-[~]
$ nslookup -type=MX tryhackme.com
Server:      10.255.255.254
Address:     10.255.255.254#53

Non-authoritative answer:
tryhackme.com mail exchanger = 1 aspmx.l.google.com.
tryhackme.com mail exchanger = 10 alt3.aspmx.l.google.com.
tryhackme.com mail exchanger = 10 alt4.aspmx.l.google.com.
tryhackme.com mail exchanger = 5 alt1.aspmx.l.google.com.
tryhackme.com mail exchanger = 5 alt2.aspmx.l.google.com.

Authoritative answers can be found from:
```

```
(JackSparrow@Captain)~[~]
$ dig tryhackme.com MX

;<<>> DiG 9.20.11-4+b1-Debian <<>> tryhackme.com MX
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 11986
;; flags: qr rd ra; QUERY: 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
;; EDNS: version: 0, flags:; udp: 4096
;; QUESTION SECTION:
;tryhackme.com.                IN      MX

;; ANSWER SECTION:
tryhackme.com.                191     IN      MX      1 aspmx.l.google.com.
tryhackme.com.                191     IN      MX      10 alt3.aspmx.l.google.com.
tryhackme.com.                191     IN      MX      10 alt4.aspmx.l.google.com.
tryhackme.com.                191     IN      MX      5 alt1.aspmx.l.google.com.
tryhackme.com.                191     IN      MX      5 alt2.aspmx.l.google.com.

;; Query time: 39 msec
;; SERVER: 10.255.255.254#53(10.255.255.254) (UDP)
;; WHEN: Sat Nov 15 22:20:16 IST 2025
;; MSG SIZE rcvd: 157
```

SHODAN

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product:Apache

Account

TOTAL RESULTS

12,653,837

TOP COUNTRIES



United States	3,769,108
Japan	1,328,264
Germany	1,269,150
China	602,671
France	581,710
More...	

TOP PORTS

80	6,276,002
443	4,590,654
8080	378,735
8443	136,661
8081	126,813

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Access Granted: Want to get more out of your existing Shodan account? Check out everything you have access to.

Apache Tomcat

42.260.188.178

ADSL\_Marc\_Miscan

Morocco, Casablanca

HTTP/1.1 200 OK

Server: Apache-Coyote/1.1

Etag: W/"8144-126155976000"

Last-Modified: Mon, 28 Jan 2008 22:39:36 GMT

Content-Type: text/html

Content-Length: 8144

Date: Mon, 17 Nov 2025 15:15:38 GMT

Apache Tomcat/10.1.4

103.248.14.20

InterCloud Ltd

Bangladesh, Dhaka

HTTP/1.1 200

Content-Type: text/html; charset=UTF-8

Transfer-Encoding: chunked

Date: Mon, 17 Nov 2025 15:17:29 GMT

302 Found

217.91.137.241

petitsherry.de@ipconnect.de

Deutsch Telekom AG

Germany, Angermünde

HTTP/1.1 302 Found

Date: Mon, 17 Nov 2025 15:17:30 GMT

Server: Apache/2.4.52 (Ubuntu)

Location: https://217.91.137.241/

Content-Length: 287

Content-Type: text/html; charset=iso-8859-1

217.79.254.175

217.79.254.175.static.hn.vus

Honolulu LLC

United States, New York City

HTTP/1.1 200 OK

Date: Mon, 17 Nov 2025 15:17:38 GMT

Server: Apache/2.4.43 (Ubuntu)

SHODAN

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product:Nginx

Account

TOTAL RESULTS

59,144,257

TOP COUNTRIES



United States	11,667,094
China	11,022,424
Hong Kong	5,135,160
Japan	3,760,309
Germany	3,086,266
More...	

TOP PORTS

80	12,199,960
443	8,413,172
888	974,479

View Report

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Advanced Search

Product Spotlight: We've Launched a new API for Fast Vulnerability Lookups. Check out CVEDB

400 Bad Request

129.37.140.7

CHINA TELECOM CORPORATION

China, Xiamen

HTTP/1.1 400 Bad Request

Server: nginx

Date: Mon, 17 Nov 2025 16:02:13 GMT

Content-Type: text/html

Content-Length: 2412

Connection: close

x-w-request-id: 6910472d\_P5-129-81rJC191\_12361-1567

400 The plain HTTP request was sent to HTTPS port

212.193.100.5

Kamatera Inc

United Kingdom, London

HTTP/1.1 400 Bad Request

Server: nginx

Date: Mon, 17 Nov 2025 16:02:17 GMT

Content-Type: text/html

Content-Length: 650

Connection: close

403 Forbidden

156.244.111.190

Cloudify Net Inc

Hong Kong, Tsing Kwan O

HTTP/1.1 403 Forbidden

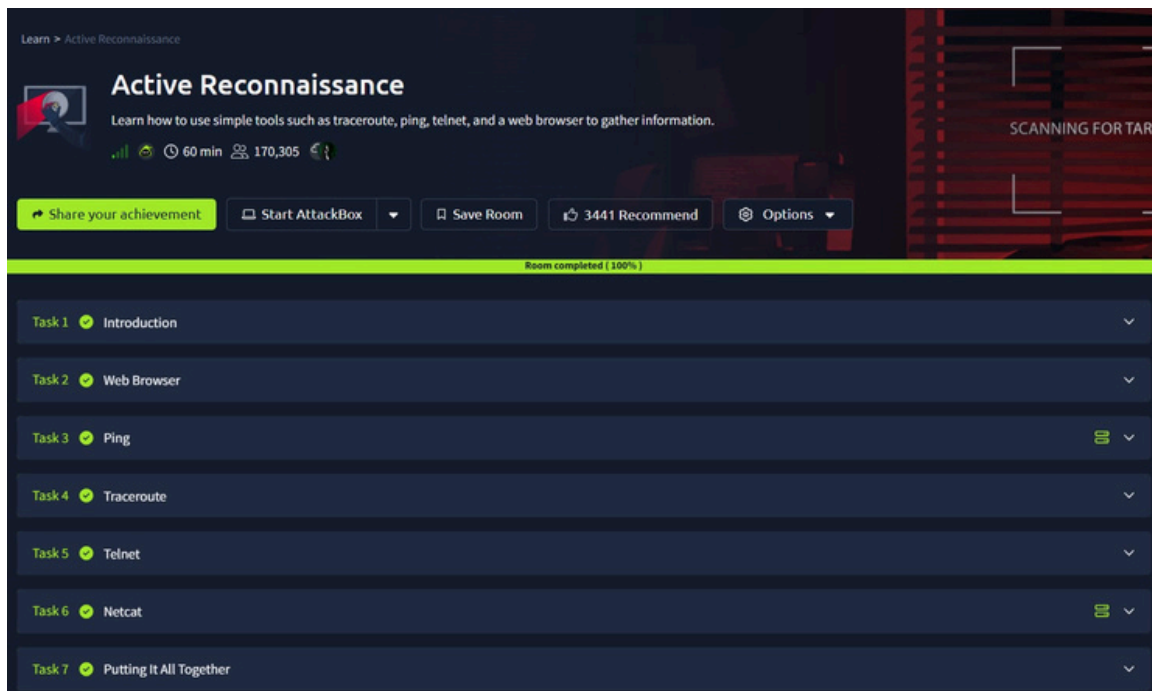
Server: nginx

Date: Mon, 17 Nov 2025 13:46:15 GMT

Content-Type: text/html

Content-Length: 548

Connection: keep-alive



```
(JackSparrow@Captain)-[~]
$ traceroute tryhackme.com
traceroute to tryhackme.com (104.20.29.66), 30 hops max, 60 byte packets
 1 Captain.mshome.net (172.24.224.1)  0.934 ms  0.896 ms  0.874 ms
 2 RTK_GW (192.168.1.1)  3.782 ms  3.761 ms  4.792 ms
 3 abts-tn-dynamic-1.132.78.171.airtelbroadband.in (171.78.132.1)  6.931 ms  6.920 ms  6.906 ms
 4 125.17.36.41 (125.17.36.41)  6.968 ms  6.871 ms  6.945 ms
 5 182.79.208.203 (182.79.208.203)  6.922 ms  182.79.208.19 (182.79.208.19)  6.963 ms  6.948 ms
 6 182.79.161.171 (182.79.161.171)  8.382 ms  6.944 ms  20.323 ms
 7 162.158.52.39 (162.158.52.39)  6.334 ms  162.158.52.35 (162.158.52.35)  20.241 ms  162.158.52.39 (162.158.52.39)  6.255 ms
 8 104.20.29.66 (104.20.29.66)  6.239 ms  17.783 ms  15.676 ms
```

```
(JackSparrow@Captain)-[~]
$ ping -c 5 tryhackme.com
PING tryhackme.com (172.66.164.239) 56(84) bytes of data.
64 bytes from 172.66.164.239: icmp_seq=1 ttl=58 time=10.7 ms
64 bytes from 172.66.164.239: icmp_seq=2 ttl=58 time=16.8 ms
64 bytes from 172.66.164.239: icmp_seq=3 ttl=58 time=15.4 ms
64 bytes from 172.66.164.239: icmp_seq=4 ttl=58 time=15.6 ms
64 bytes from 172.66.164.239: icmp_seq=5 ttl=58 time=15.0 ms

--- tryhackme.com ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4008ms
rtt min/avg/max/mdev = 10.660/14.693/16.833/2.107 ms
```

## RESULT:

Thus, the passive and active reconnaissance has been performed successfully in TryHackMe platform.