

241901025

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Ex.No: 3

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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

Share your achievement Start AttackBox Save Room 4911 Recommend Options

Room completed (100%)

- Task 1 ✓ Introduction
- Task 2 ✓ Passive Versus Active Recon
- Task 3 ✓ Whois
- Task 4 ✓ nslookup and dig
- Task 5 ✓ DNSDumpster
- Task 6 ✓ Shodan.io
- Task 7 ✓ Summary

```
(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:
```

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```
[~] (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 | Explore | Downloads | Pricing | product:Apache

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TOTAL RESULTS
12,653,837

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

TOP COUNTRIES

United States 3,759,108
Japan 1,328,264
Germany 1,269,150
China 602,671
France 681,710
More...

TOP PORTS

Port	Count
80	6,276,002
443	4,590,854
8080	378,736
8443	136,561
8081	126,813

Apache Tomcat [41.250.180.178]

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
ETag: M/8144-120555976000"
Last-Modified: Mon, 28 Jan 2008 22:39:36 GHT
Content-Type: text/html
Content-Length: 8144
Date: Mon, 17 Nov 2025 15:55:38 GHT

Apache Tomcat/10.1.4 [103.148.14.20]

HTTP/1.1 200 OK
Content-type: text/html; charset=UTF-8
Transfer-Encoding: chunked
Date: Mon, 17 Nov 2025 15:57:29 GHT

302 Found [217.91.137.241]

HTTP/1.1 302 Found
Date: Mon, 17 Nov 2025 15:57:30 GHT
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.hvcc.us]

HTTP/1.1 200 OK
Date: Mon, 17 Nov 2025 15:57:38 GHT
Server: Apache/2.4.41 (Ubuntu)

2025-11-17T15:58:36.017004
2025-11-17T15:58:42.28095
2025-11-17T15:57:29.529469
2025-11-17T15:57:38.891450

SHODAN | Explore | Downloads | Pricing | product:Nginx

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TOTAL RESULTS
59,144,257

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

TOP COUNTRIES

United States 11,567,094
China 11,022,424
Hong Kong 5,135,160
Japan 3,760,309
Germany 3,088,266
More...

TOP PORTS

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

400 Bad Request [120.37.140.7]

HTTP/1.1 400 Bad Request
Server: nginx
Date: Mon, 17 Nov 2025 16:02:53 GHT
Content-Type: text/html
Content-Length: 2412
Connection: close
x-ws-request-id: 691a472d_ps-13n-01-c191_12361-5367

400 The plain HTTP request was sent to HTTPS port [212.115.108.5]

HTTP/1.1 400 Bad Request
Server: nginx
Date: Mon, 17 Nov 2025 16:02:57 GHT
Content-Type: text/html
Content-Length: 656
Connection: close

403 Forbidden [166.244.111.195]

HTTP/1.1 403 Forbidden
Server: nginx
Date: Mon, 17 Nov 2025 13:40:55 GHT
Content-Type: text/html
Content-Length: 340
Connection: keep-alive

2025-11-17T16:05:51.767390
2025-11-17T16:05:36.003824
2025-11-17T16:05:24.154302

Learn > Active Reconnaissance

Active Reconnaissance

Learn how to use simple tools such as traceroute, ping, telnet, and a web browser to gather information.

Share your achievement Start AttackBox Save Room Options

3441 Recommend

Room completed (100%)

- Task 1 ✓ Introduction
- Task 2 ✓ Web Browser
- Task 3 ✓ Ping
- Task 4 ✓ Traceroute
- Task 5 ✓ Telnet
- Task 6 ✓ Netcat
- Task 7 ✓ Putting It All Together

```
(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.