

## **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:
```

```
[~] (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 Account

TOTAL RESULTS  
12,653,837

View Report Browse Images View on Map Advanced Search

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

**Apache Tomcat** 
 41,250,100,178  
 ADS, Maroc, Casablanca  
 Morocco, Casablanca  

 HTTP/1.1 200 OK  
 Server: Apache-Coyote/1.1  
 ETag: M/8144-1205550975600"  
 Last-Modified: Mon, 28 Jan 2008 22:39:36 GMT  
 Content-Type: text/html  
 Content-Length: 8344  
 Date: Mon, 17 Nov 2025 15:55:38 GMT
 2025-11-17T15:58:04.917004

**Apache Tomcat/10.1.4** 
 103,748,14,20  
 InterCloud Ltd  
 Bangladesh, Dhaka  

 HTTP/1.1 200 OK  
 Content-Type: text/html; charset=UTF-8  
 Transfer-Encoding: chunked  
 Date: Mon, 17 Nov 2025 15:57:29 GMT
 2025-11-17T15:58:04.228005

**302 Found** 
 217,91,137,241  
 jzsfzh001.dg1.1guanxi.net.de  
 Deutsche Telekom AG  
 Germany, Aengenrode  

 HTTP/1.1 302 Found  
 Date: Mon, 17 Nov 2025 15:57:30 GMT  
 Server: Apache/2.4.52 (Ubuntu)  
 Location: https://217.91.137.241/  
 Content-Length: 207  
 Content-Type: text/html; charset=iso-8859-1
 2025-11-17T15:57:53.529469

**217.79.254.175** 
 257-79-254-175.static.hvnic.us  
 Hvnic LLC  
 United States, New York City  

 HTTP/1.1 200 OK  
 Date: Mon, 17 Nov 2025 15:57:38 GMT  
 Server: Apache/2.4.41 (Ubuntu)
 2025-11-17T15:57:58.881450

**SHODAN** Explore Downloads Pricing product:Nginx Account

TOTAL RESULTS  
59,144,257

View Report Browse Images View on Map Advanced Search

Product Spotlight: We've Launched a new API for Fast Vulnerability Lookups. Check out [CVEDB](#)

**400 Bad Request** 
 120,37,140,7  
 CHINANTUAN PROVINCE NETWORK  
 China, Xiamen  

 HTTP/1.1 400 Bad Request  
 Server: nginx  
 Date: Mon, 17 Nov 2025 16:02:53 GMT  
 Content-Type: text/html  
 Content-Length: 2412  
 Connection: close  
 x-ws-request-id: 481d472d\_ps-12n-81r-jc193\_12341-5347
 2025-11-17T16:05:51.767399

**400 The plain HTTP request was sent to HTTPS port** 
 212,115,108,5  
 Kamereon Inc  
 United Kingdom, London  

 HTTP/1.1 400 Bad Request  
 Server: nginx  
 Date: Mon, 17 Nov 2025 16:02:57 GMT  
 Content-Type: text/html  
 Content-Length: 658  
 Connection: close
 2025-11-17T16:05:56.863024

**403 Forbidden** 
 192,244,111,199  
 CloudFlare Net Inc  
 Hong Kong, Tsing Yuen O  

 HTTP/1.1 403 Forbidden  
 Server: nginx  
 Date: Mon, 17 Nov 2025 13:49:55 GMT  
 Content-Type: text/html  
 Content-Length: 346  
 Connection: keep-alive
 2025-11-17T16:05:24.154382

Learn > Active Reconnaissance

## Active Reconnaissance

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

all 60 min 170,305

Share your achievement Start AttackBox Save Room 3441 Recommend Options

Room completed (100%)

Task 1 ✓ Introduction

Task 2 ✓ Web Browser

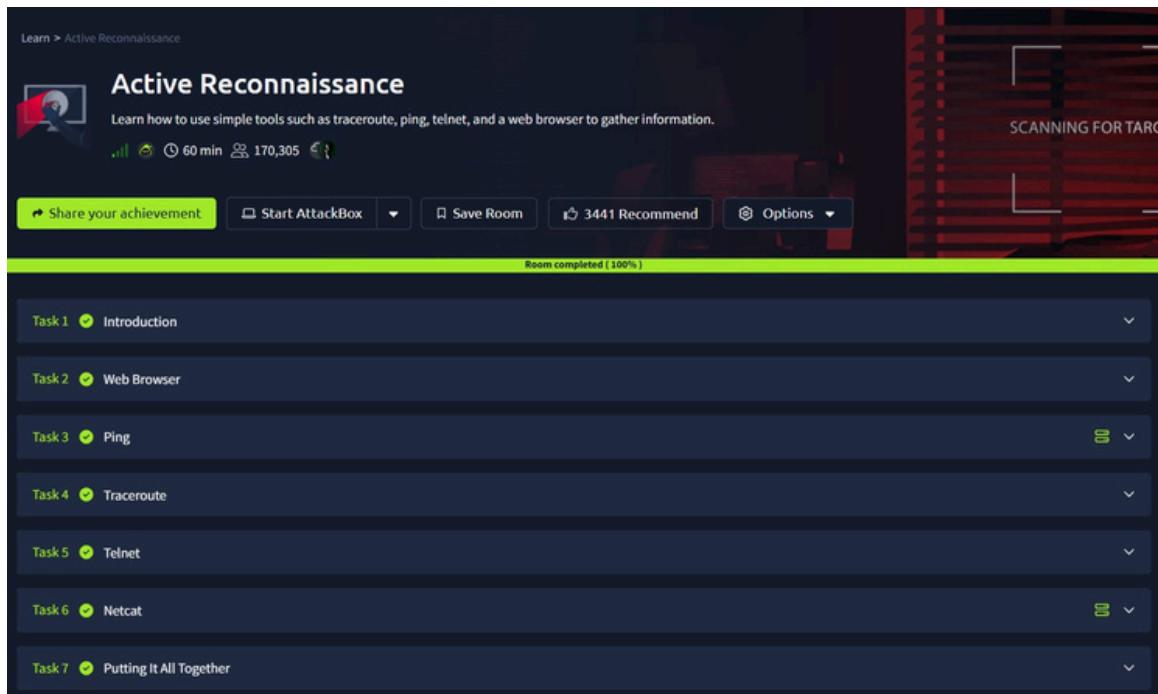
Task 3 ✓ Ping

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-trn-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.