

PASSIVE AND ACTIVE RECONNAISSANCE

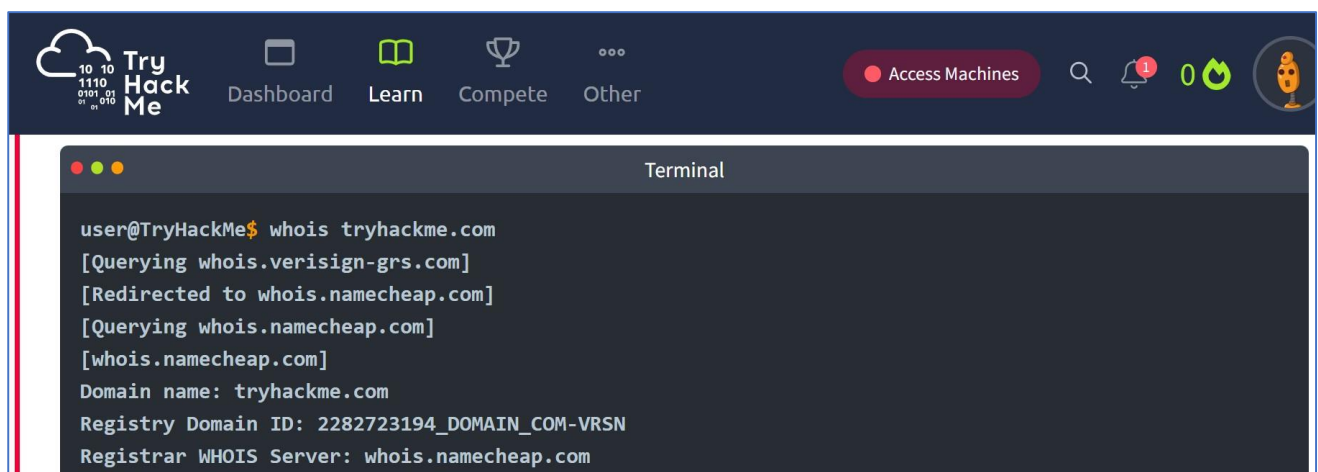
Aim:

To do perform passive and active reconnaissance in TryHackMe platform.

Algorithm:

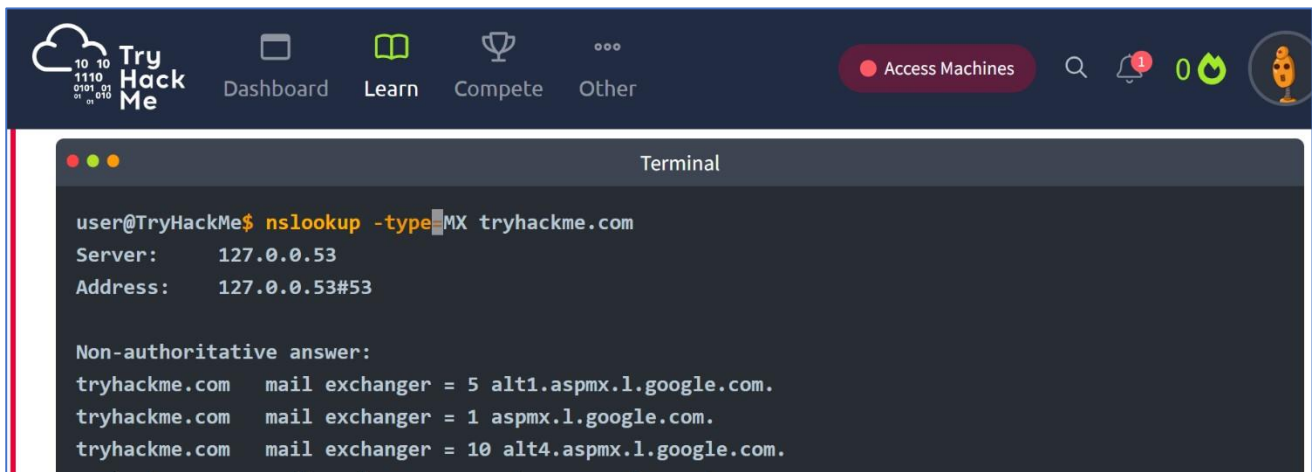
1. Access the Passive reconnaissance lab in TryHackMe platform using the link below-
<https://tryhackme.com/r/room/passiverecon>
2. Click Start AttackBox to run the instance of Kali Linux distribution.
3. Run whois command on the website tryhackme.com and gather information about it.
4. Find the IP address 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.

Output:



The screenshot shows the TryHackMe platform interface. At the top, there is a navigation bar with the TryHackMe logo, a 'Dashboard' button, and links for 'Learn', 'Compete', and 'Other'. A red 'Access Machines' button is also visible. Below the navigation bar, a terminal window is open, displaying the output of the 'whois tryhackme.com' command. The output shows that the domain is tryhackme.com, registered with ID 2282723194, and managed by whois.namecheap.com.

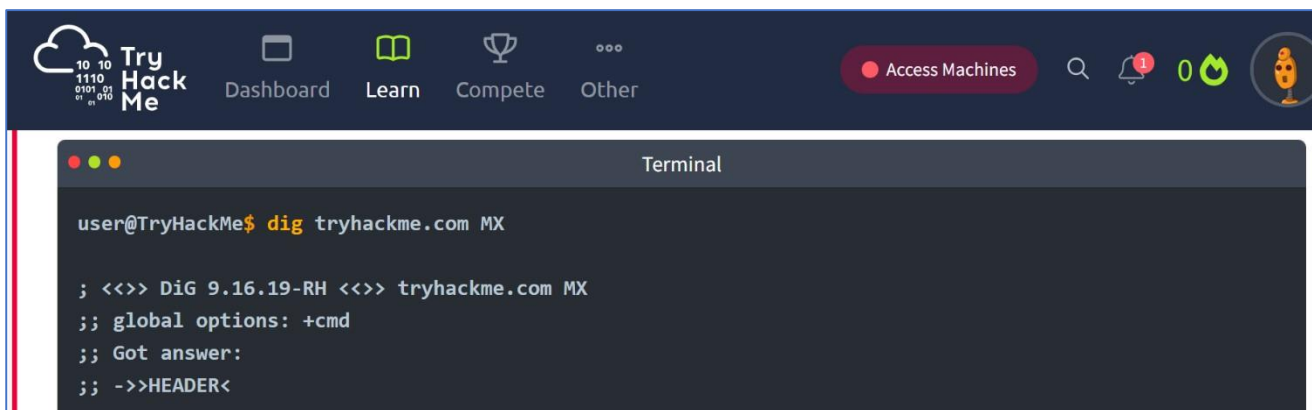
```
user@TryHackMe$ whois tryhackme.com
[Querying whois.verisign-grs.com]
[Redirected to whois.namecheap.com]
[Querying whois.namecheap.com]
[whois.namecheap.com]
Domain name: tryhackme.com
Registry Domain ID: 2282723194_DOMAIN_COM-VRSN
Registrar WHOIS Server: whois.namecheap.com
```



The screenshot shows the TryHackMe dashboard with a terminal window open. The terminal displays the output of the command `nslookup -type=MX tryhackme.com`. The output shows the server IP as 127.0.0.53 and the address as 127.0.0.53#53. It also lists three non-authoritative mail exchanger records for tryhackme.com: 5 alt1.aspmx.l.google.com, 1 aspmx.l.google.com, and 10 alt4.aspmx.l.google.com.

```
user@TryHackMe$ nslookup -type=MX tryhackme.com
Server:      127.0.0.53
Address:     127.0.0.53#53

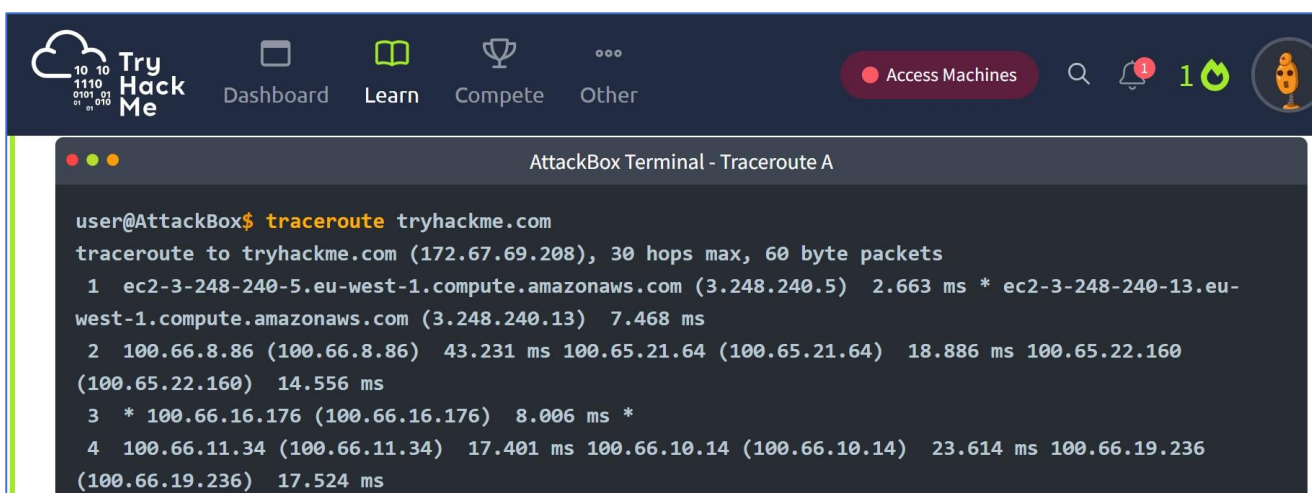
Non-authoritative answer:
tryhackme.com mail exchanger = 5 alt1.aspmx.l.google.com.
tryhackme.com mail exchanger = 1 aspmx.l.google.com.
tryhackme.com mail exchanger = 10 alt4.aspmx.l.google.com.
```



The screenshot shows the TryHackMe dashboard with a terminal window open. The terminal displays the output of the command `dig tryhackme.com MX`. The output shows the DiG version (9.16.19-RH) and the command being executed. It also shows the global options (+cmd) and the answer header.

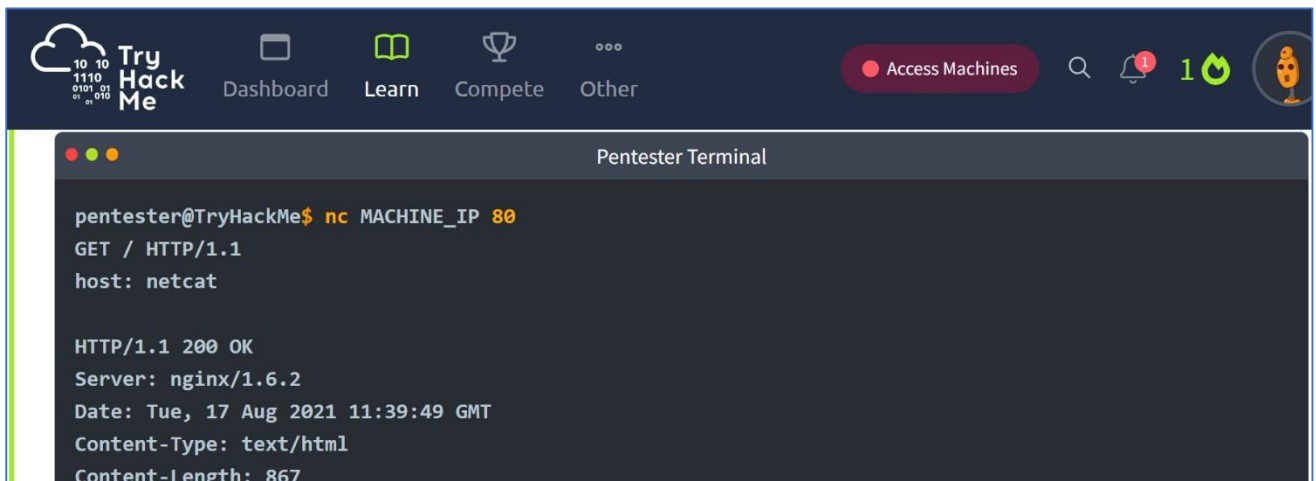
```
user@TryHackMe$ dig tryhackme.com MX

; <<>> DiG 9.16.19-RH <<>> tryhackme.com MX
;; global options: +cmd
;; Got answer:
;; ->>HEADER<
```



The screenshot shows the TryHackMe dashboard with a terminal window open. The terminal displays the output of the command `traceroute tryhackme.com`. The output shows the traceroute path to tryhackme.com (172.67.69.208) with 30 hops max and 60 byte packets. The path includes several hops with IP addresses and round-trip times.

```
user@AttackBox$ traceroute tryhackme.com
traceroute to tryhackme.com (172.67.69.208), 30 hops max, 60 byte packets
 1 ec2-3-248-240-5.eu-west-1.compute.amazonaws.com (3.248.240.5) 2.663 ms * ec2-3-248-240-13.eu-west-1.compute.amazonaws.com (3.248.240.13) 7.468 ms
 2 100.66.8.86 (100.66.8.86) 43.231 ms 100.65.21.64 (100.65.21.64) 18.886 ms 100.65.22.160 (100.65.22.160) 14.556 ms
 3 * 100.66.16.176 (100.66.16.176) 8.006 ms *
 4 100.66.11.34 (100.66.11.34) 17.401 ms 100.66.10.14 (100.66.10.14) 23.614 ms 100.66.19.236 (100.66.19.236) 17.524 ms
```



The screenshot shows the TryHackMe web interface with a dark theme. The top navigation bar includes the TryHackMe logo, links to Dashboard, Learn, Compete, and Other, and a red 'Access Machines' button. Below the navigation bar is a 'Pentester Terminal' window. The terminal shows a netcat listener on 'pentester@TryHackMe' that has successfully connected to a machine with IP '80'. The output of the connection is an HTTP 200 OK response from a server running nginx/1.6.2, with headers indicating the date and content type.

```
pentester@TryHackMe$ nc MACHINE_IP 80
GET / HTTP/1.1
host: netcat

HTTP/1.1 200 OK
Server: nginx/1.6.2
Date: Tue, 17 Aug 2021 11:39:49 GMT
Content-Type: text/html
Content-Length: 867
```

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

