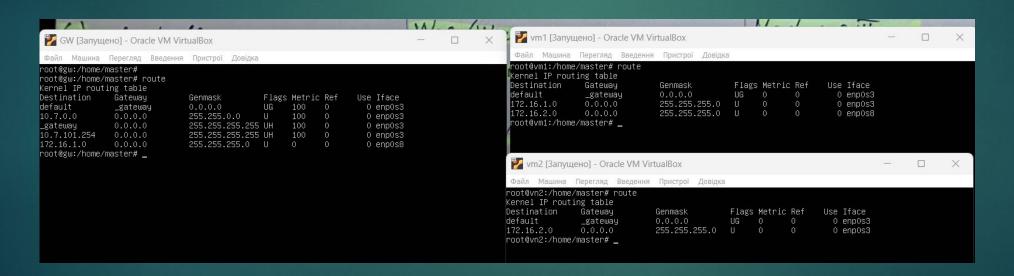
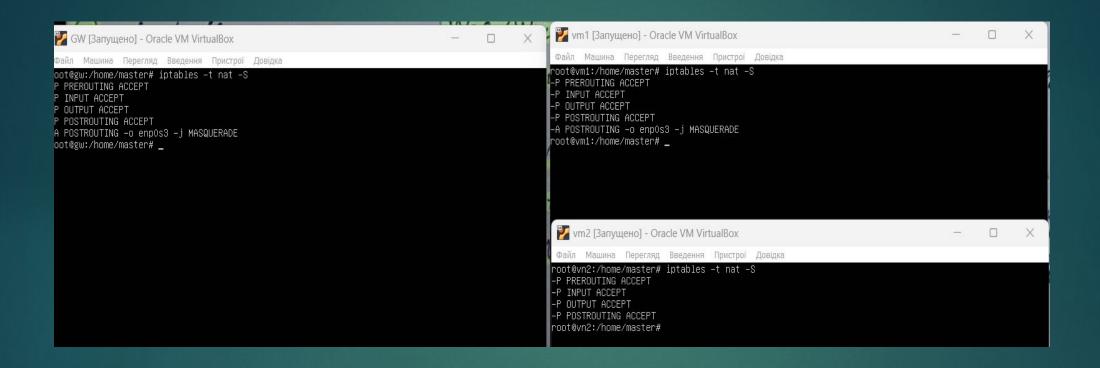
- 1. Create virtual machines connection according to figure 1:
- 2. VM2 has one interface (internal), VM1 has 2 interfaces (NAT and internal). Configure all network interfaces in order to make VM2 has an access to the Internet (iptables, forward, masquerade).

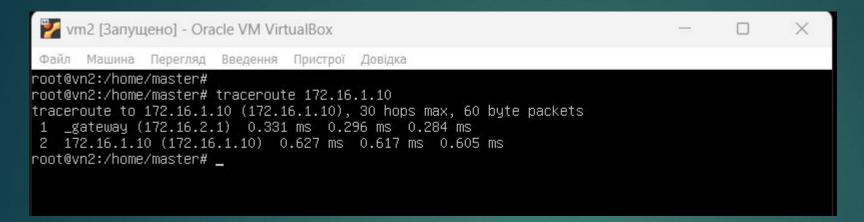
Routing tables



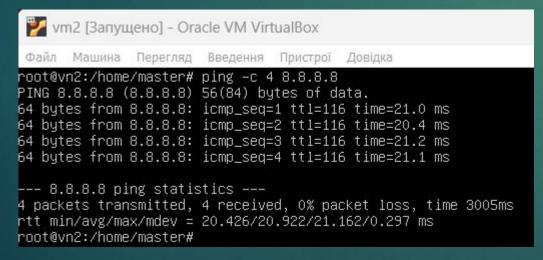
IPTABLES rules:



3. Check the route from VM2 to Host.



4. Check the access to the Internet, (just ping, for example, 8.8.8.8).

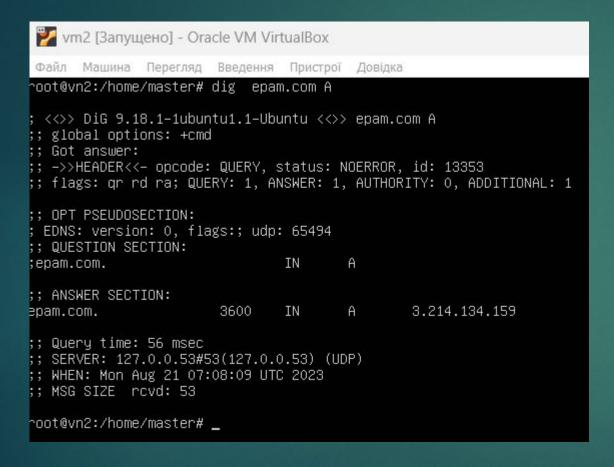


5. Determine, which resource has an IP address 8.8.8.8.

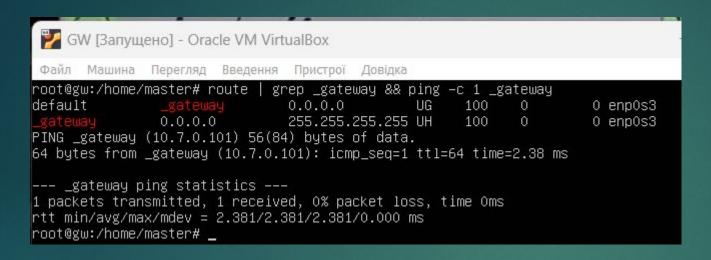
```
vm2 [Запущено] - Oracle VM VirtualBox
 Файл Машина Перегляд Введення Пристрої Довідка
root@vn2:/home/master# dig –x 8.8.8.8
; <<>> DiG 9.18.1-1ubuntu1.1-Ubuntu <<>> -x 8.8.8.8
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 13927
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 65494
;; QUESTION SECTION:
;8.8.8.8.in–addr.arpa.
                                IN
                                       PTR
;; ANSWER SECTION:
8.8.8.8.in–addr.arpa.
                       13667
                                                dns.google.
                               IN
                                       PTR
;; Query time: 23 msec
;; SERVER: 127.0.0.53#53(127.0.0.53) (UDP)
;; WHEN: Mon Aug 21 07:06:31 UTC 2023
;; MSG SIZE rcvd: 73
root@vn2:/home/master# _
```

6. Determine, which IP address belongs to resource epam.com.

Why epam.com?)))



7. Determine the default gateway for your HOST and display routing table.



In my case is a default gw of my network: 10.7.0.101.

8. Trace the route to google.com.

