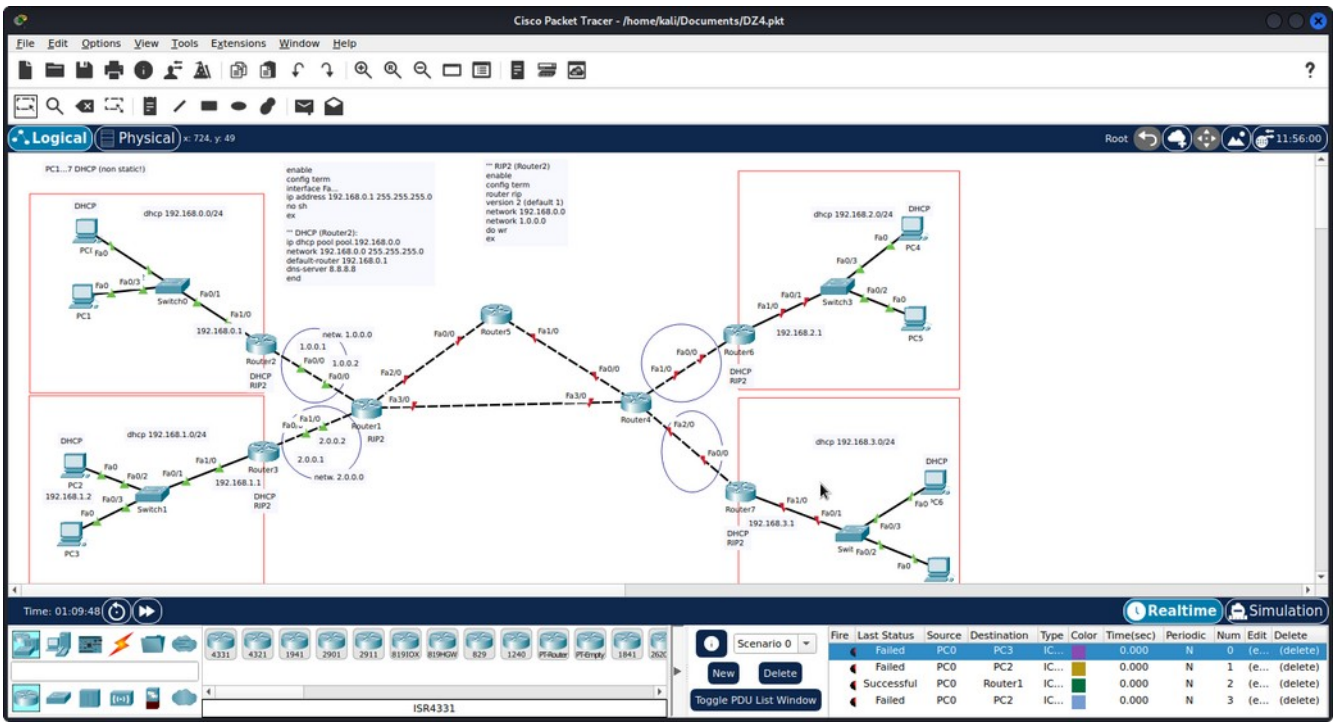
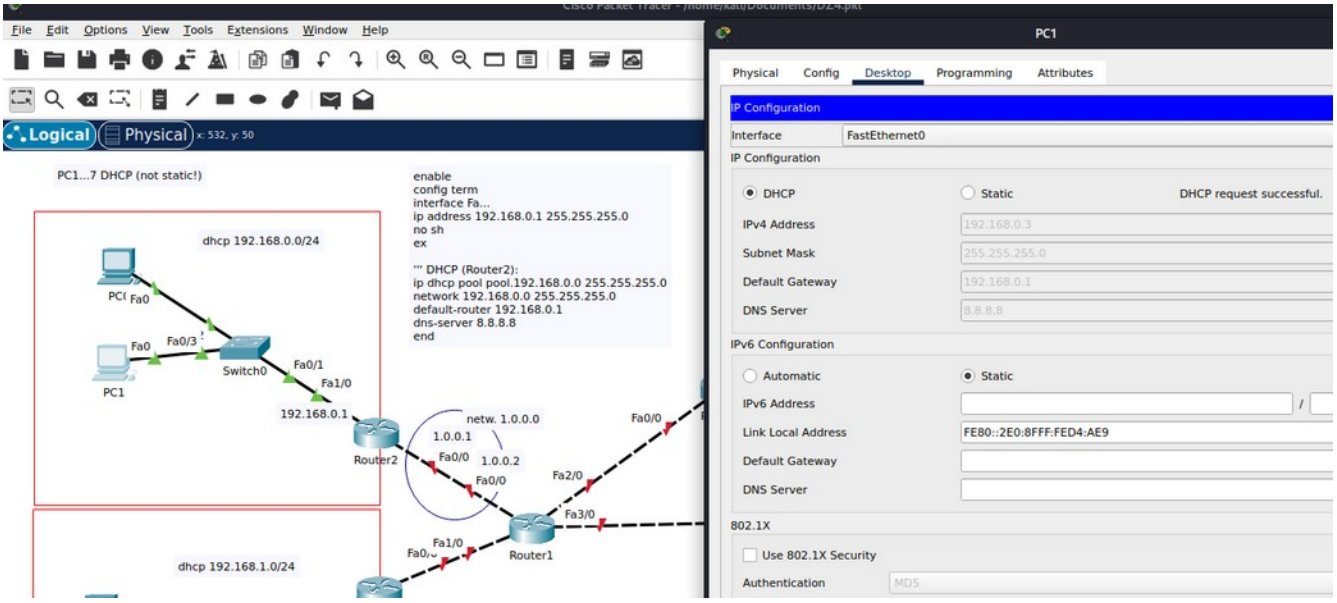
Урок 4. Сетевой уровень. Часть 2

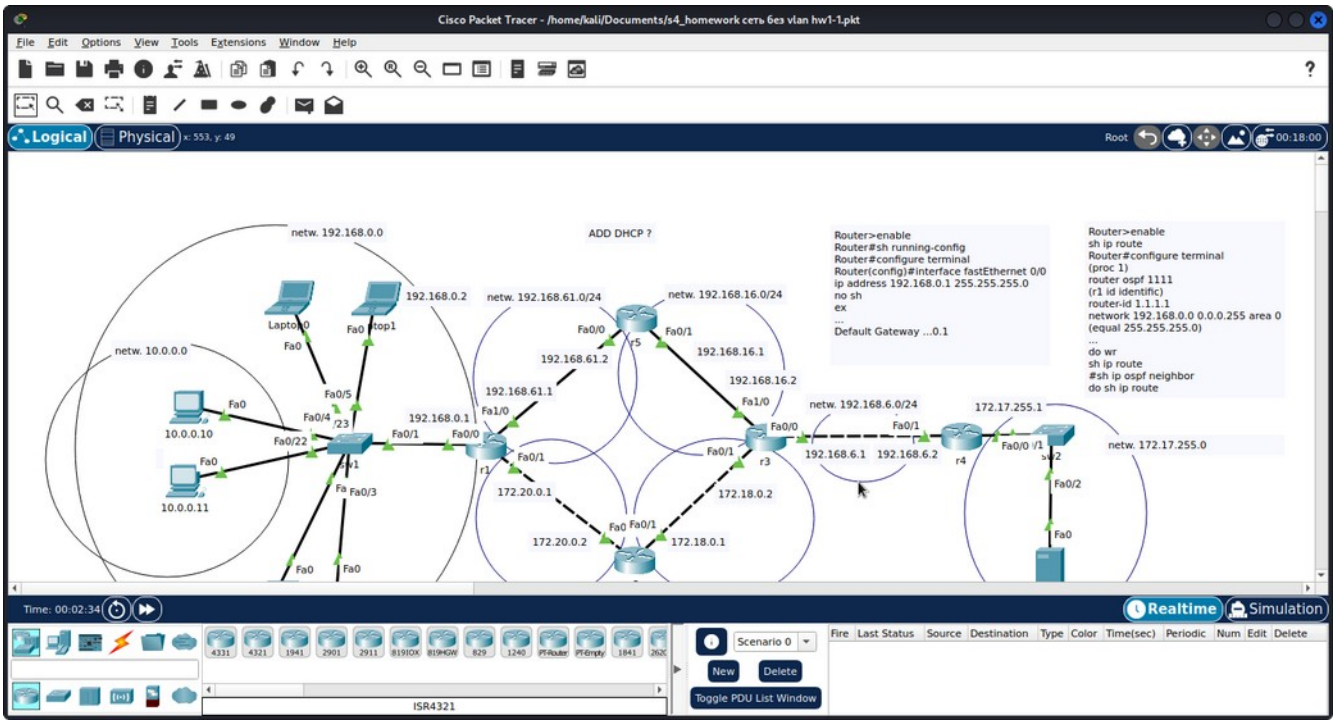
1. На всех маршрутизаторах настроить динамическую маршрутизацию с помощью протокола RIP2 и DHCP сервер для динамической настройки клиентов в LAN.

Файл *.pkt выложил Яндекс-ссылкой



Не успеваю доделать другие сети, принцип понял… Доработаю.


File Edit Options View Tools Extensions Window Help
Logical Physical
PC1...7 DHCP (not static!)
dhcp 192.168.0.0/24
dhcp 192.168.1.0/24
Switch0
Router1
Router2
192.168.0.1
netw. 1.0.0.0
1.0.0.1
1.0.0.2
enable
config term
interface Fa...
ip address 192.168.0.1 255.255.255.0
no sh
ex
DHCP (Router2):
ip dhcp pool pool.192.168.0.0 255.255.255.0
network 192.168.0.0 255.255.255.0
default-router 192.168.0.1
dns-server 8.8.8.8
end
PC1
Physical Config Desktop Programming Attributes
IP Configuration
Interface FastEthernet0
DHCP Static DHCP request successful.
IPv4 Address 192.168.0.3
Subnet Mask 255.255.255.0
Default Gateway 192.168.0.1
DNS Server 8.8.8.8
IPv6 Configuration
Automatic Static
IPv6 Address
Link Local Address FE80::2E0:8FFF:FED4:AE9
Default Gateway
DNS Server
802.1X
Use 802.1X Security
Authentication MD5

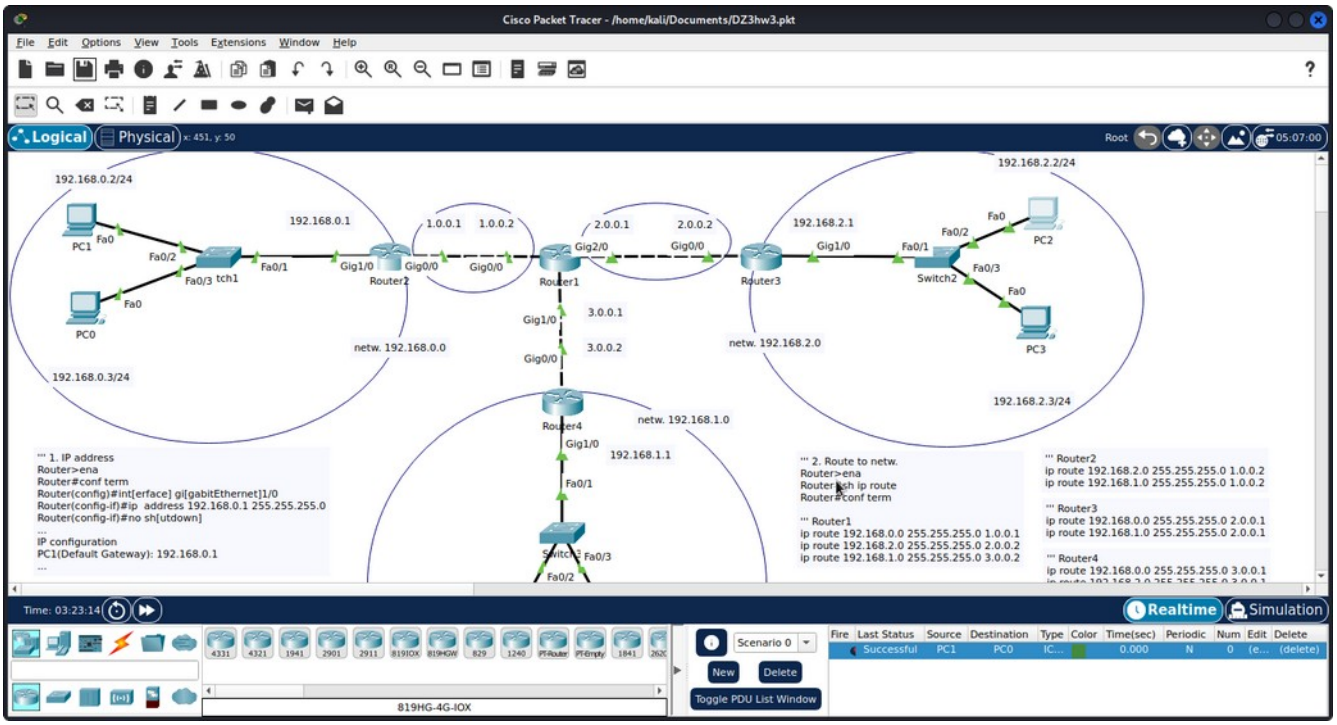

Cisco Packet Tracer - /home/kali/Documents/s4_homework сеть без vlan hw1-1.pkt
File Edit Options View Tools Extensions Window Help
Logical Physical
netw. 192.168.0.0
ADD DHCP ?
netw. 10.0.0.0
netw. 192.168.61.0/24
netw. 192.168.16.0/24
netw. 192.168.6.0/24
netw. 172.17.255.0
192.168.0.2
192.168.61.1
192.168.61.2
192.168.16.1
192.168.16.2
192.168.0.1
192.168.6.1
192.168.6.2
172.17.255.1
172.20.0.1
172.20.0.2
172.18.0.1
172.18.0.2
10.0.0.10
10.0.0.11
Router>enable
Router#sh running-config
Router#configure terminal
Router(config)#interface fastEthernet 0/0
ip address 192.168.0.1 255.255.255.0
no sh
ex
Default Gateway ...0.1
Router>enable
sh ip route
Router#configure terminal
(proc 1)
router ospf 1111
(r1 id identific)
router-id 1.1.1.1
network 192.168.0.0 0.0.0.255 area 0
(equal 255.255.255.0)
do wr
sh ip route
#sh ip ospf neighbor
do sh ip route
Time: 00:02:34
Realtime Simulation
Scenario 0
New Delete
Toggle PDU List Window
ISR4321

ДОПОЛНИТЕЛЬНО (не успевал отослать воремя до занятия ...)

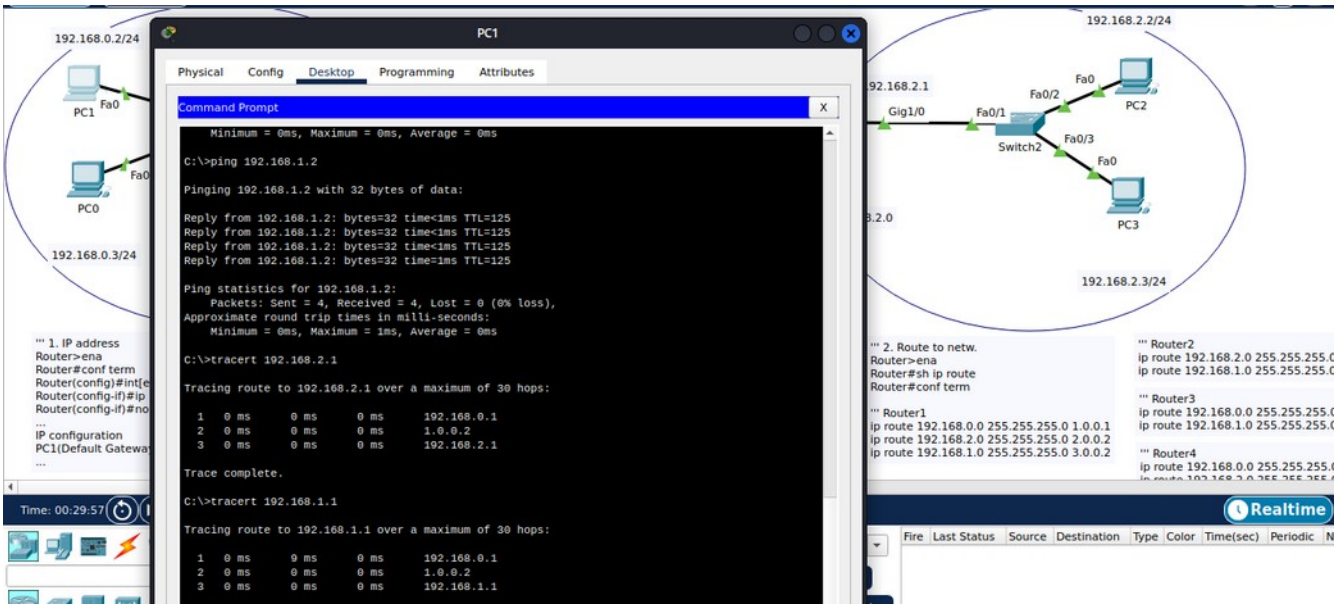
Файл *.pkt выложил Яндекс-ссылкой

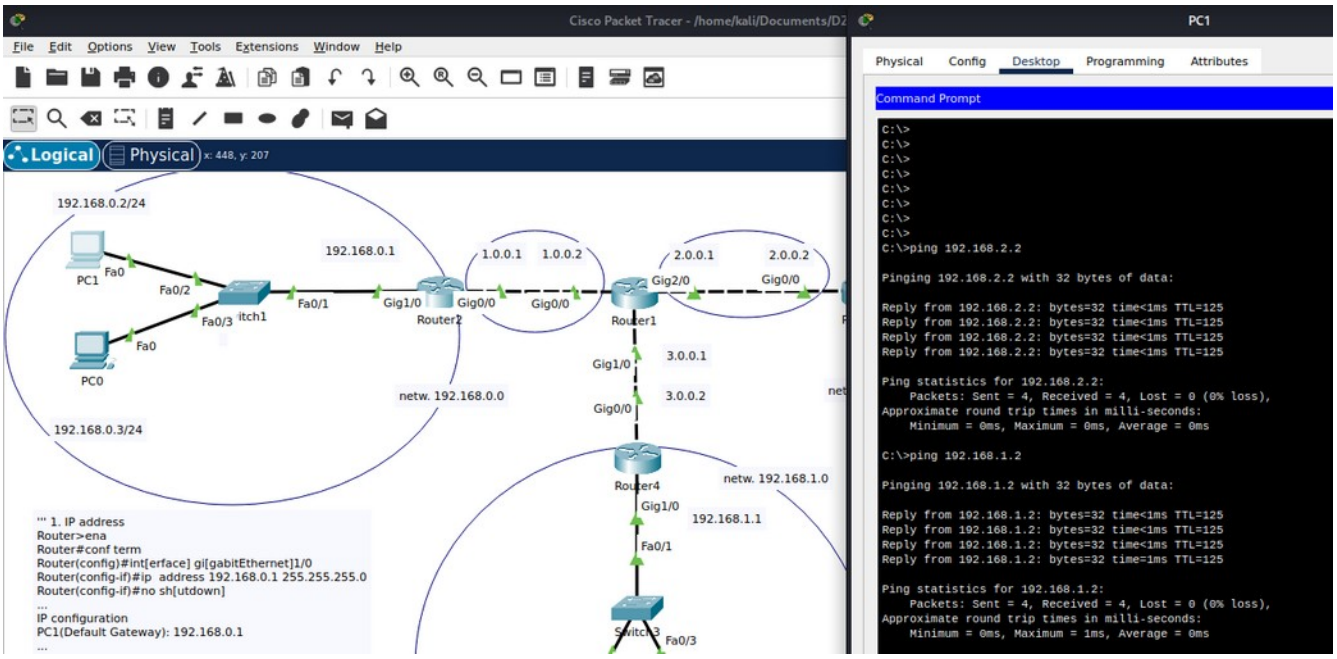
Урок 3. Сетевой уровень. Часть 1

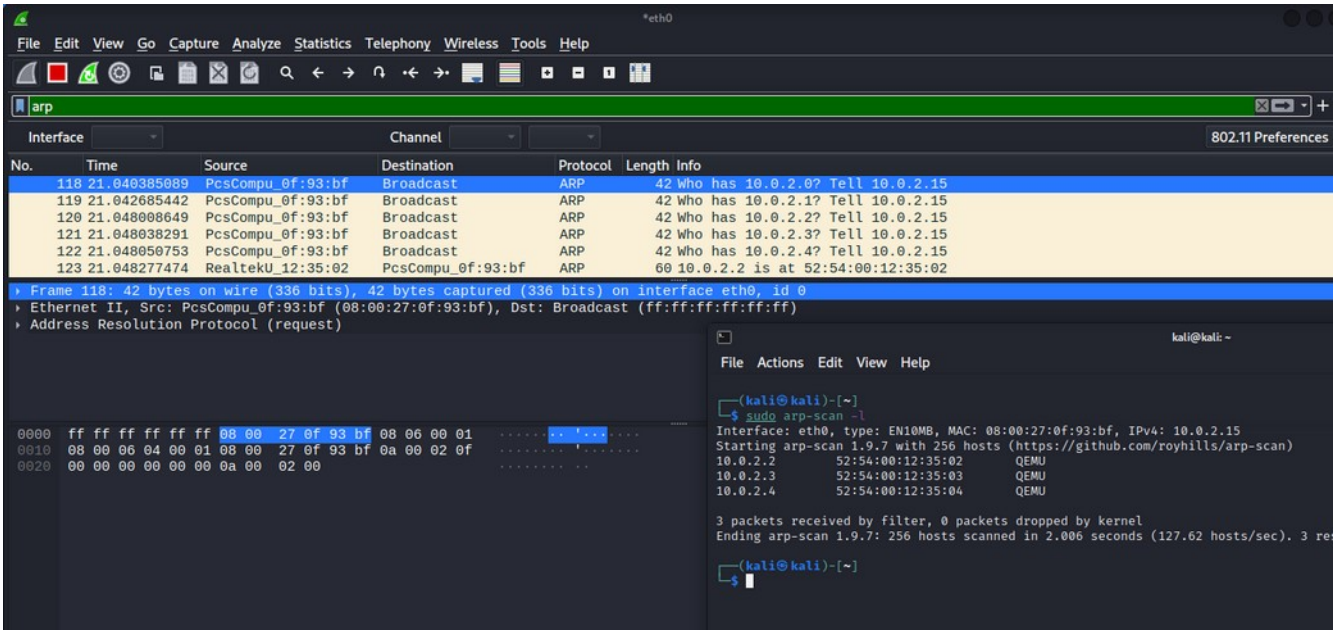
1. В приложенном файле в Cisco Packet Tracer связать файлы с помощью статической маршрутизации.



2. Проследить в Cisco Packet Tracer, Wireshark работу протоколов arp, icmp (например, используя tracert или traceroute -I)






*eth0
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
arp
Interface
Channel
802.11 Preferences
No. Time Source Destination Protocol Length Info
118 21.040385089 PcsCompu_0f:93:bf Broadcast ARP 42 Who has 10.0.2.0? Tell 10.0.2.15
119 21.042685442 PcsCompu_0f:93:bf Broadcast ARP 42 Who has 10.0.2.1? Tell 10.0.2.15
120 21.048008649 PcsCompu_0f:93:bf Broadcast ARP 42 Who has 10.0.2.2? Tell 10.0.2.15
121 21.048038291 PcsCompu_0f:93:bf Broadcast ARP 42 Who has 10.0.2.3? Tell 10.0.2.15
122 21.048050753 PcsCompu_0f:93:bf Broadcast ARP 42 Who has 10.0.2.4? Tell 10.0.2.15
123 21.048277474 RealtekU_12:35:02 PcsCompu_0f:93:bf ARP 60 10.0.2.2 is at 52:54:00:12:35:02
Frame 118: 42 bytes on wire (336 bits), 42 bytes captured (336 bits) on interface eth0, id 0
Ethernet II, Src: PcsCompu_0f:93:bf (08:00:27:0f:93:bf), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
Address Resolution Protocol (request)
0000 ff ff ff ff ff ff 08 00 27 0f 93 bf 08 06 00 01
0010 08 00 06 04 00 01 08 00 27 0f 93 bf 0a 00 02 0f
0020 00 00 00 00 00 00 0a 00 02 00
kali@kali: ~
File Actions Edit View Help
(kali㉿kali)-[~]
$ sudo arp-scan -l
Interface: eth0, type: EN10MB, MAC: 08:00:27:0f:93:bf, IPv4: 10.0.2.15
Starting arp-scan 1.9.7 with 256 hosts (https://github.com/royhills/arp-scan)
10.0.2.2 52:54:00:12:35:02 QEMU
10.0.2.3 52:54:00:12:35:03 QEMU
10.0.2.4 52:54:00:12:35:04 QEMU
3 packets received by filter, 0 packets dropped by kernel
Ending arp-scan 1.9.7: 256 hosts scanned in 2.006 seconds (127.62 hosts/sec). 3 re
(kali㉿kali)-[~]
$