Práctica de Laboratorio #4
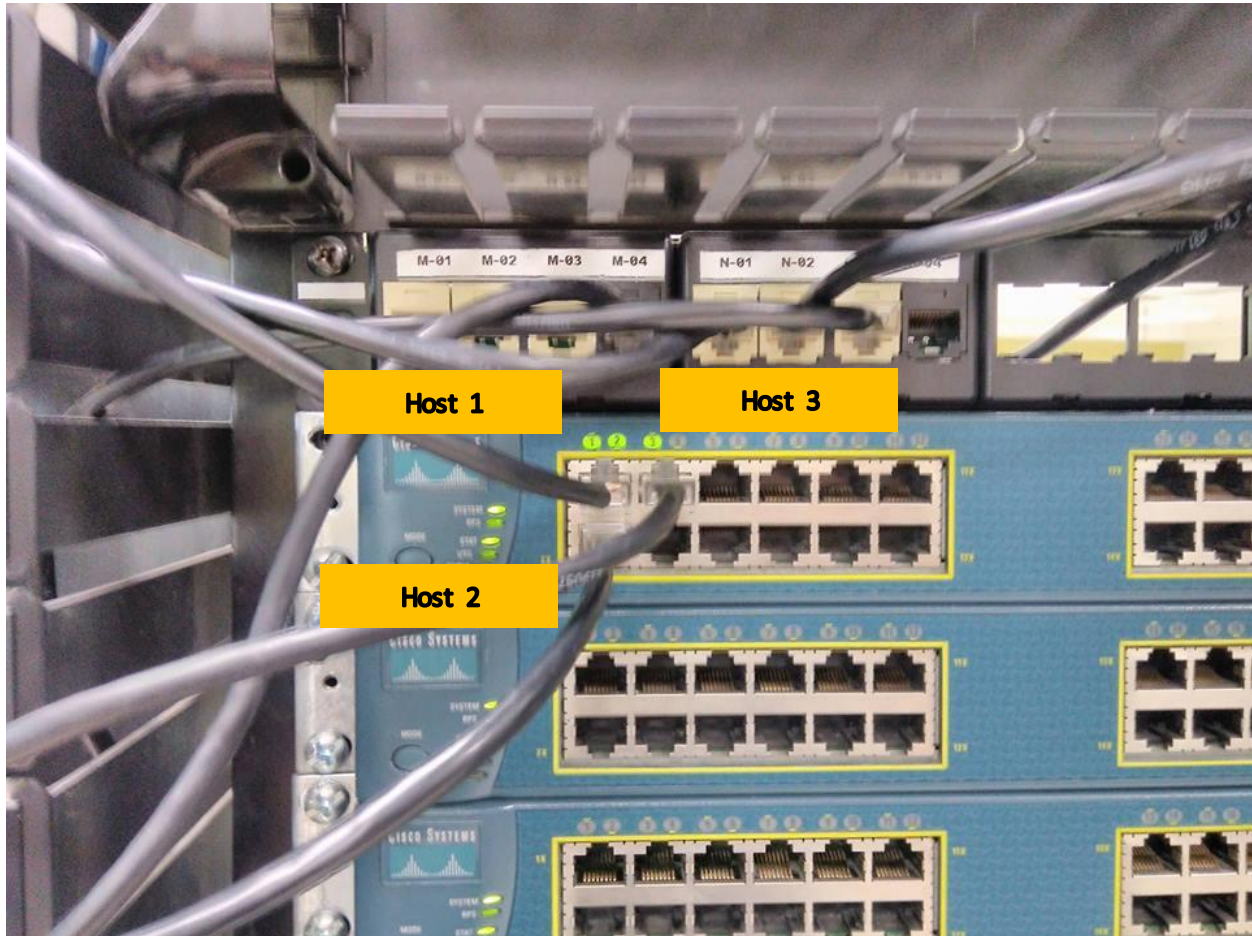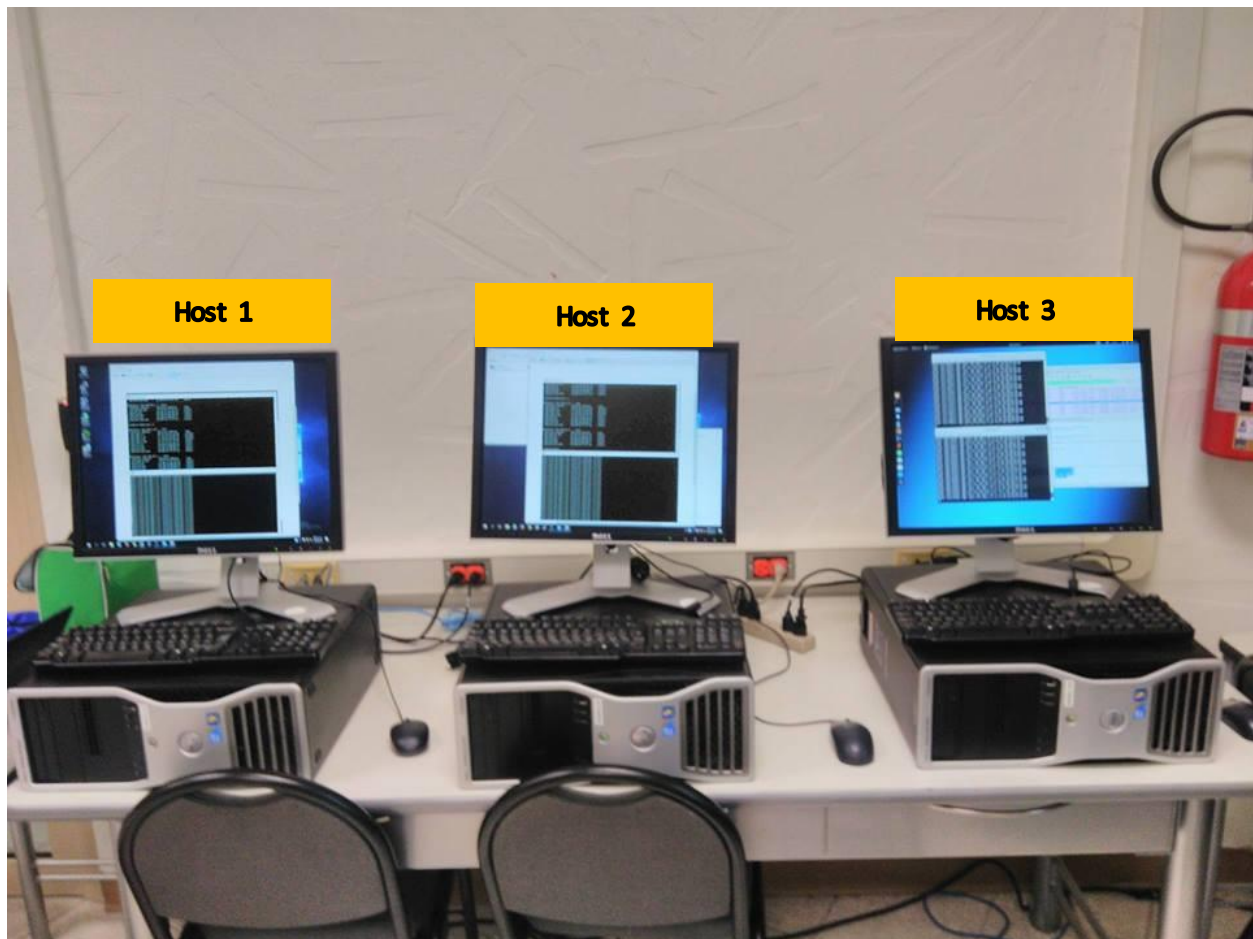
1. Foto de la topología armada:

2. Arp Cache de host 1 y host 2 antes y durante el ataque:

Host 1 – Antes:


```
Ping statistics for 192.168.1.11:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\redes>
C:\Users\redes>
C:\Users\redes>arp -a

Interface: 192.168.1.10 --- 0xf
  Internet Address      Physical Address      Type
  192.168.1.1           00-12-d9-e3-a2-00     dynamic
  192.168.1.11          bc-30-5b-e5-09-1b     dynamic
  192.168.1.12          bc-30-5b-e5-09-16     dynamic
  192.168.1.255         ff-ff-ff-ff-ff-ff     static
  224.0.0.22            01-00-5e-00-00-16     static
  224.0.0.251           01-00-5e-00-00-fb     static
  224.0.0.252           01-00-5e-00-00-fc     static
  239.255.255.250       01-00-5e-7f-ff-fa     static

Interface: 192.168.56.1 --- 0x12
  Internet Address      Physical Address      Type
  192.168.56.255        ff-ff-ff-ff-ff-ff     static
  224.0.0.22            01-00-5e-00-00-16     static
  224.0.0.251           01-00-5e-00-00-fb     static
  224.0.0.252           01-00-5e-00-00-fc     static
  239.255.255.250       01-00-5e-7f-ff-fa     static

C:\Users\redes>
```

Host 1 – Durante:

```
C:\Users\redes>arp -a

Interface: 192.168.1.10 --- 0xf
  Internet Address        Physical Address      Type
  192.168.1.1             00-12-d9-e3-a2-00     dynamic
  192.168.1.11            bc-30-5b-e5-09-16     dynamic
  192.168.1.12            bc-30-5b-e5-09-16     dynamic
  192.168.1.255           ff-ff-ff-ff-ff-ff     static
  224.0.0.22              01-00-5e-00-00-16     static
  224.0.0.251             01-00-5e-00-00-fb     static
  224.0.0.252             01-00-5e-00-00-fc     static
  239.255.255.250         01-00-5e-7f-ff-fa     static

Interface: 192.168.56.1 --- 0x12
  Internet Address        Physical Address      Type
  192.168.56.255          ff-ff-ff-ff-ff-ff     static
  224.0.0.22              01-00-5e-00-00-16     static
  224.0.0.251             01-00-5e-00-00-fb     static
  224.0.0.252             01-00-5e-00-00-fc     static
  239.255.255.250         01-00-5e-7f-ff-fa     static

C:\Users\redes>
```

Host 2 – Antes:

```
Select Command Prompt                                                    —    □    ×
Ping statistics for 192.168.1.10:
    Packets: Sent = 114, Received = 113, Lost = 1 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1168ms, Average = 12ms
Control-C
^C
C:\Users\redes>
C:\Users\redes>
C:\Users\redes>
C:\Users\redes>arp -a

Interface: 192.168.1.11 --- 0xe
  Internet Address    Physical Address    Type
  192.168.1.1         00-12-d9-e3-a2-00   dynamic
  192.168.1.10        bc-30-5b-d0-4e-cb   dynamic
  192.168.1.255       ff-ff-ff-ff-ff-ff   static
  224.0.0.22          01-00-5e-00-00-16   static
  224.0.0.251         01-00-5e-00-00-fb   static
  224.0.0.252         01-00-5e-00-00-fc   static
  239.255.255.250     01-00-5e-7f-ff-fa   static

Interface: 192.168.56.1 --- 0x12
  Internet Address    Physical Address    Type
  192.168.56.255      ff-ff-ff-ff-ff-ff   static
  224.0.0.22          01-00-5e-00-00-16   static
  224.0.0.251         01-00-5e-00-00-fb   static
  224.0.0.252         01-00-5e-00-00-fc   static
  239.255.255.250     01-00-5e-7f-ff-fa   static

C:\Users\redes>
```

Host 2 – Durante:

3. Ataque desde Kali Linux:

4. Host 1 y Host 2 no tienen conectividad:

Host 1:


```
Command Prompt                                                                                              —    □    ×
  239.255.255.250         01-00-5e-7f-ff-fa      static

Interface: 192.168.56.1 --- 0x12
  Internet Address       Physical Address     Type
  192.168.56.255         ff-ff-ff-ff-ff-ff      static
  224.0.0.22             01-00-5e-00-00-16      static
  224.0.0.251            01-00-5e-00-00-fb      static
  224.0.0.252            01-00-5e-00-00-fc      static
  239.255.255.250        01-00-5e-7f-ff-fa      static

C:\Users\redes>arp -a

Interface: 192.168.1.10 --- 0xf
  Internet Address       Physical Address     Type
  192.168.1.1            00-12-d9-e3-a2-00      dynamic
  192.168.1.11           bc-30-5b-e5-09-16      dynamic
  192.168.1.12           bc-30-5b-e5-09-16      dynamic
  192.168.1.255          ff-ff-ff-ff-ff-ff      static
  224.0.0.22             01-00-5e-00-00-16      static
  224.0.0.251            01-00-5e-00-00-fb      static
  224.0.0.252            01-00-5e-00-00-fc      static
  239.255.255.250        01-00-5e-7f-ff-fa      static

Interface: 192.168.56.1 --- 0x12
  Internet Address       Physical Address     Type
  192.168.56.255         ff-ff-ff-ff-ff-ff      static
  224.0.0.22             01-00-5e-00-00-16      static
  224.0.0.251            01-00-5e-00-00-fb      static
  224.0.0.252            01-00-5e-00-00-fc      static
```
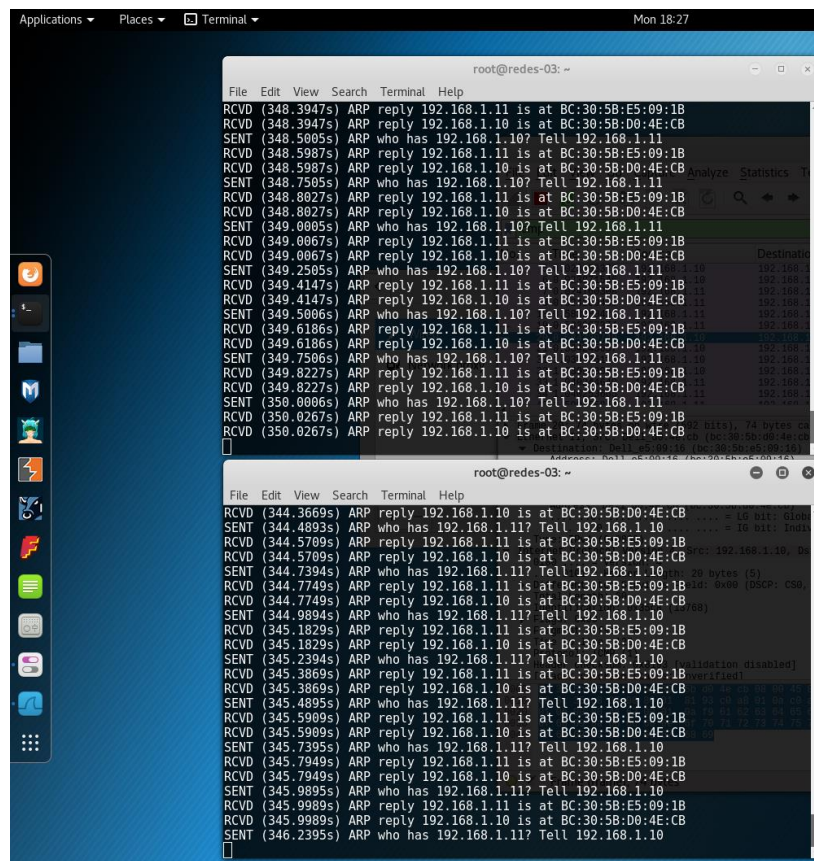
```
Command Prompt - ping 192.168.1.11 -t                                                                       —    □    ×
Reply from 192.168.1.11: bytes=32 time<1ms TTL=127
Reply from 192.168.1.11: bytes=32 time<1ms TTL=127
Reply from 192.168.1.11: bytes=32 time<1ms TTL=127
Reply from 192.168.1.11: bytes=32 time<1ms TTL=127
Reply from 192.168.1.11: bytes=32 time<1ms TTL=127
Reply from 192.168.1.11: bytes=32 time<1ms TTL=127
Reply from 192.168.1.11: bytes=32 time<1ms TTL=127
Reply from 192.168.1.11: bytes=32 time<1ms TTL=127
Reply from 192.168.1.11: bytes=32 time<1ms TTL=127
Reply from 192.168.1.11: bytes=32 time<1ms TTL=127
Reply from 192.168.1.11: bytes=32 time<1ms TTL=127
Reply from 192.168.1.11: bytes=32 time<1ms TTL=127
Reply from 192.168.1.11: bytes=32 time<1ms TTL=127
Reply from 192.168.1.11: bytes=32 time<1ms TTL=127
Reply from 192.168.1.11: bytes=32 time<1ms TTL=127
Reply from 192.168.1.11: bytes=32 time<1ms TTL=127
Reply from 192.168.1.11: bytes=32 time<1ms TTL=127
Reply from 192.168.1.11: bytes=32 time<1ms TTL=127
Reply from 192.168.1.11: bytes=32 time<1ms TTL=127
Reply from 192.168.1.11: bytes=32 time<1ms TTL=127
Reply from 192.168.1.11: bytes=32 time<1ms TTL=127
Reply from 192.168.1.11: bytes=32 time<1ms TTL=127
Reply from 192.168.1.11: bytes=32 time<1ms TTL=127
Reply from 192.168.1.11: bytes=32 time<1ms TTL=127
```

Host 2:

```
    192.168.56.255        ff-ff-ff-ff-ff-ff     static
    224.0.0.22            01-00-5e-00-00-16     static
    224.0.0.251           01-00-5e-00-00-fb     static
    224.0.0.252           01-00-5e-00-00-fc     static
    239.255.255.250       01-00-5e-7f-ff-fa     static

C:\Users\redes>arp -a

Interface: 192.168.1.11 --- 0xe
  Internet Address      Physical Address      Type
  192.168.1.1           00-12-d9-e3-a2-00     dynamic
  192.168.1.10          bc-30-5b-e5-09-16     dynamic
  192.168.1.12          bc-30-5b-e5-09-16     dynamic
  192.168.1.255         ff-ff-ff-ff-ff-ff     static
  224.0.0.22            01-00-5e-00-00-16     static
  224.0.0.251           01-00-5e-00-00-fb     static
  224.0.0.252           01-00-5e-00-00-fc     static
  239.255.255.250       01-00-5e-7f-ff-fa     static

Interface: 192.168.56.1 --- 0x12
  Internet Address      Physical Address      Type
  192.168.56.255        ff-ff-ff-ff-ff-ff     static
  224.0.0.22            01-00-5e-00-00-16     static
  224.0.0.251           01-00-5e-00-00-fb     static
  224.0.0.252           01-00-5e-00-00-fc     static
  239.255.255.250       01-00-5e-7f-ff-fa     static

C:\Users\redes>
```

Command Prompt - ping 192.168.1.10 -t

```
Reply from 192.168.1.10: bytes=32 time<1ms TTL=127
Reply from 192.168.1.10: bytes=32 time<1ms TTL=127
Reply from 192.168.1.10: bytes=32 time<1ms TTL=127
Reply from 192.168.1.10: bytes=32 time<1ms TTL=127
Reply from 192.168.1.10: bytes=32 time<1ms TTL=127
Reply from 192.168.1.10: bytes=32 time<1ms TTL=127
Reply from 192.168.1.10: bytes=32 time<1ms TTL=127
Reply from 192.168.1.10: bytes=32 time<1ms TTL=127
Reply from 192.168.1.10: bytes=32 time<1ms TTL=127
Reply from 192.168.1.10: bytes=32 time<1ms TTL=127
Reply from 192.168.1.10: bytes=32 time<1ms TTL=127
Reply from 192.168.1.10: bytes=32 time<1ms TTL=127
Reply from 192.168.1.10: bytes=32 time<1ms TTL=127
Reply from 192.168.1.10: bytes=32 time<1ms TTL=127
Reply from 192.168.1.10: bytes=32 time<1ms TTL=127
Reply from 192.168.1.10: bytes=32 time<1ms TTL=127
Reply from 192.168.1.10: bytes=32 time<1ms TTL=127
Reply from 192.168.1.10: bytes=32 time<1ms TTL=127
Reply from 192.168.1.10: bytes=32 time<1ms TTL=128
Reply from 192.168.1.10: bytes=32 time<1ms TTL=127
Reply from 192.168.1.10: bytes=32 time<1ms TTL=127
Reply from 192.168.1.10: bytes=32 time<1ms TTL=127
Reply from 192.168.1.10: bytes=32 time<1ms TTL=127
Reply from 192.168.1.10: bytes=32 time<1ms TTL=127
Reply from 192.168.1.10: bytes=32 time<1ms TTL=127
Reply from 192.168.1.10: bytes=32 time<1ms TTL=127
Reply from 192.168.1.10: bytes=32 time<1ms TTL=127
```

5. Contenido de paquete de WireShark: