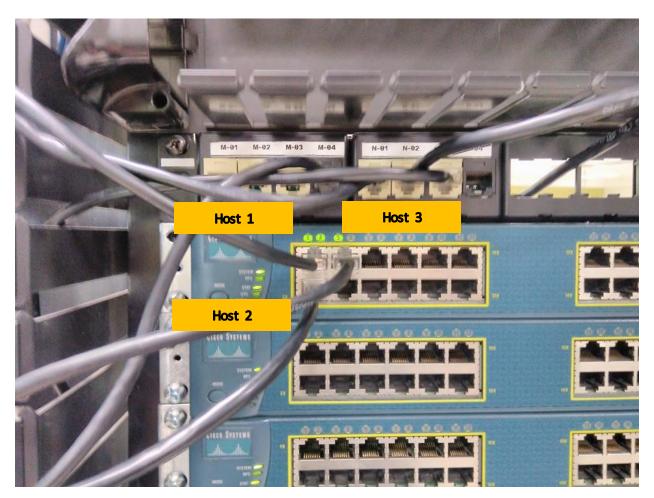
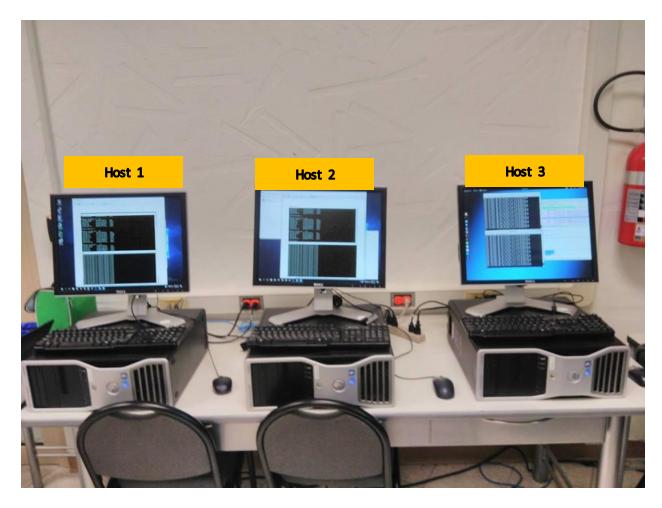
Jonat han Torres Escárcega Seguridad Informática Avanzada A00759281 28/08/2017

Práctica de Laboratorio #4

1. Fot o de la topología armada:





2. Arp Cache de host 1 y host 2 ant es y durant e el at aque:

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>

C:\Users\redes>
```

Host 1 - Durant e:

```
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
                        ff-ff-ff-ff-ff
  192.168.1.255
                                               static
                        01-00-5e-00-00-16
  224.0.0.22
                                               static
  224.0.0.251
                        01-00-5e-00-00-fb
                                               static
  224.0.0.252
                        01-00-5e-00-00-fc
                                               static
                        01-00-5e-7f-ff-fa
  239.255.255.250
                                               static
Interface: 192.168.56.1 --- 0x12
  Internet Address
                        Physical Address
                                               Type
  192.168.56.255
                        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
                        01-00-5e-00-00-fc
  224.0.0.252
                                               static
                        01-00-5e-7f-ff-fa
  239.255.255.250
                                               static
C:\Users\redes>
```

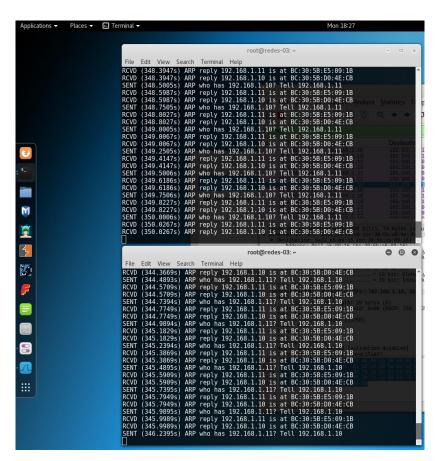
Host 2 – Antes:

```
×
 Select Command Prompt
Packets: Sent = 114, Received = 113, Lost = 1 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1168ms, Average = 12ms
 Control-C
  :\Users\redes>
  :\Users\redes>
  :\Users\redes>
  :\Users\redes>arp -a
Interface: 192.168.1.11 --- 0xe
Internet Address Physical Address
  192.168.1.1
192.168.1.10
192.168.1.255
                               00-12-d9-e3-a2-00
bc-30-5b-d0-4e-cb
                                                            dynamic
                                                            dynamic
                               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
   239.255.255.250
                               01-00-5e-7f-ff-fa
                                                            static
Interface: 192.168.56.1 --- 0x12
  Internet Address
192.168.56.255
                               Physical Address
ff-ff-ff-ff-ff
                                                            Type
                                                            static
                               01-00-5e-00-00-16
  224.0.0.22
                                                            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
 :\Users\redes>
```

Host 2 – Durant e:

```
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
                                              static
                       01-00-5e-00-00-16
  224.0.0.22
                                              static
  224.0.0.251
                       01-00-5e-00-00-fb
                                              static
                       01-00-5e-00-00-fc
  224.0.0.252
                                              static
  239.255.255.250
                       01-00-5e-7f-ff-fa
                                              static
Interface: 192.168.56.1 --- 0x12
  Internet Address
                        Physical Address
                                              Type
                       ff-ff-ff-ff-ff
  192.168.56.255
                                              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>ping 192.168.1.10 -t
```

3. At aque des de 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
                                  Physical Address
  Internet Address
                                                                   Type
  192.168.56.255
                                                                   static
  224.0.0.22
                                  01-00-5e-00-00-16
                                                                   static
  224.0.0.251
                                  01-00-5e-00-00-fb
                                                                   static
                                  01-00-5e-00-00-fc
01-00-5e-7f-ff-fa
  224.0.0.252
                                                                   static
  239.255.255.250
                                                                   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
                                                                   static
                                  01-00-5e-00-00-16
  224.0.0.22
                                                                   static
  224.0.0.251
                                  01-00-5e-00-00-fb
                                                                   static
                                  01-00-5e-00-00-fc
  224.0.0.252
                                                                   static
                                  01-00-5e-7f-ff-fa
  239.255.255.250
                                                                   static
 nterface: 192.168.56.1 --- 0x12
  Internet Address
                                  Physical Address
                                                                   Type
   192.168.56.255
                                   ff-ff-ff-ff-ff
                                                                   static
  224.0.0.22
                                  01-00-5e-00-00-16
  224.0.0.251
                                  01-00-5e-00-00-fb
                                                                   static
                                  01-00-5e-00-00-fc
  224.0.0.252
                                                                   static
 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 TIL=12/
Reply from 192.168.1.11: bytes=32 time<1ms TTL=12/
Reply from 192.168.1.11: bytes=32 time<1ms TTL=127
 deply 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:

```
Х
 Command Prompt
  192.168.56.255
                                                          static
  224.0.0.22
                              01-00-5e-00-00-16
                                                          static
  224.0.0.251
                              01-00-5e-00-00-fb
                                                          static
                              01-00-5e-00-00-fc
                                                          static
  224.0.0.252
                              01-00-5e-7f-ff-fa
  239.255.255.250
                                                          static
 :\Users\redes>arp -a
Interface: 192.168.1.11 --- 0xe
                              Physical Address
  Internet Address
                                                          Type
                              00-12-d9-e3-a2-00
  192.168.1.1
                                                         dynamic
                              bc-30-5b-e5-09-16
                                                         dynamic
  192.168.1.10
                              bc-30-5b-e5-09-16
  192.168.1.12
                                                          dynamic
                              ff-ff-ff-ff-ff
  192.168.1.255
                                                          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
                              01-00-5e-7f-ff-fa
  239.255.255.250
                                                          static
 Interface: 192.168.56.1 --- 0x12
  Internet Address
                              Physical Address
                              ff-ff-ff-ff-ff
                                                          static
  192.168.56.255
  224.0.0.22
                              01-00-5e-00-00-16
                                                          static
  224.0.0.251
                              01-00-5e-00-00-fb
                                                          static
                              01-00-5e-00-00-fc
  224.0.0.252
                                                          static
                              01-00-5e-7f-ff-fa
  239.255.255.250
                                                          static
C:\Users\redes>
Command Prompt - ping 192.168.1.10 -t
   ly from 192.168.1.10: bytes=32 time<1ms TTL=127
Reply from 192.168.1.10: bytes=32 time<1ms TTL=128
Replý from 192.168.1.10: býtes=32 time<1ms TTL=127
Reply from 192.168.1.10: bytes=32 time<1ms TTL=127
```

5. Cont enido de paquet e de WireShark:

