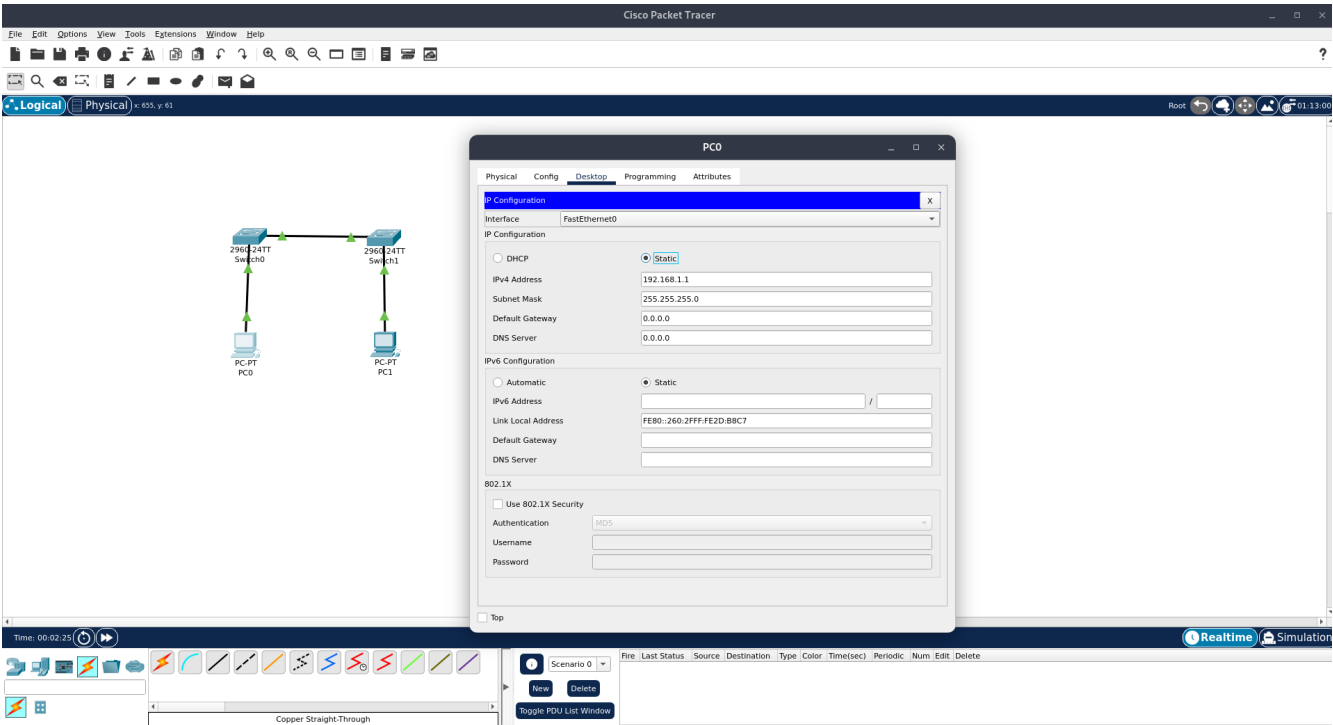
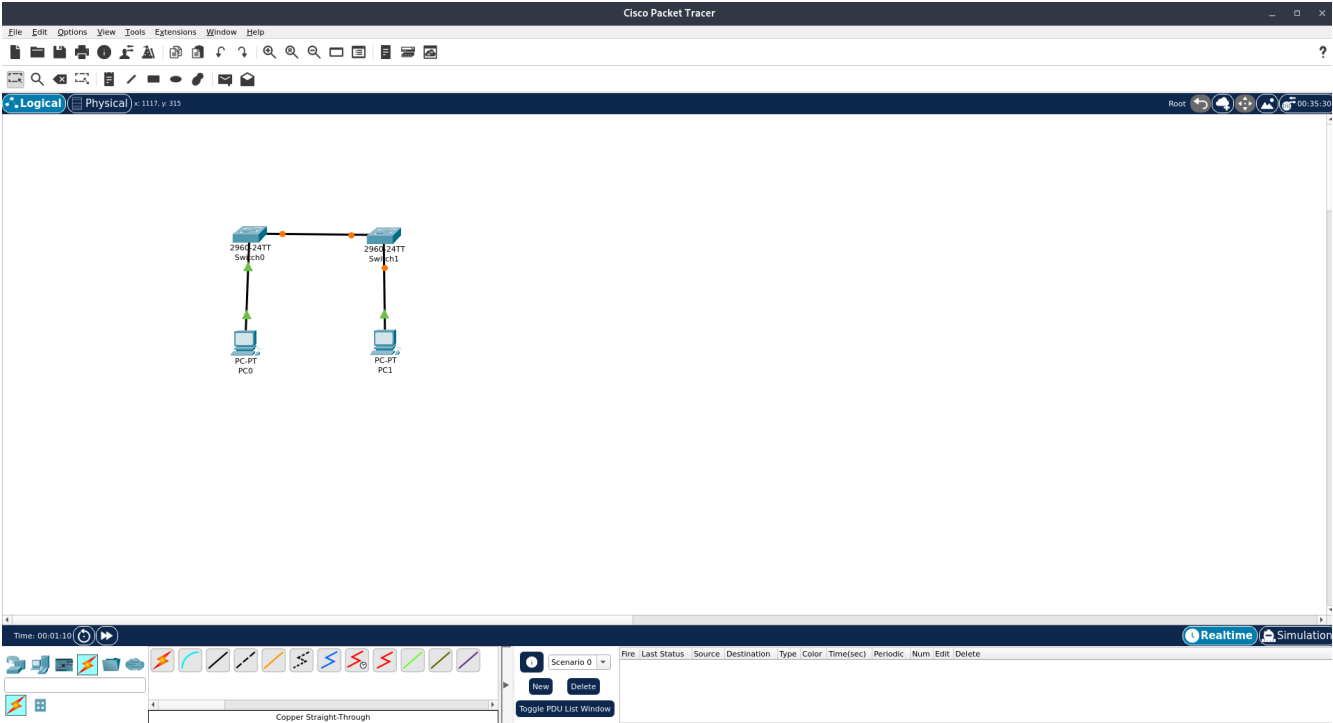


Modulo # 7 – Laboratorio # 7.3.7



Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical 651 v 210

Time: 00:02:45

PC1

Physical Config Desktop Programming Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address: 192.168.1.2

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address: /

Link Local Address: FE80::260:2FFF:FE26:9481

Default Gateway:

DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

Top

Scenario 0

New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

Copper Straight-Through

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical 650 v 147

Time: 00:08:31

PC0

Physical Config Desktop Programming Attributes

Terminal

```
Switch(config) terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname S1
S1(config)#line console 0
S1(config-line)#password cisco
S1(config-line)#login
S1(config-line)#exit
S1(config)#line vty 0 4
S1(config-line)#password cisco
S1(config-line)#login
S1(config-line)#exit
S1(config)#enable password class
S1(config)#interface vlan 1
S1(config-if)#ip address 192.168.1.11 255.255.255.0
S1(config-if)#no shutdown
S1(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
S1(config-if)#exit
S1(config)#exit
S1#
NOV 5-CONFIG-I: configured from console by console
Translating "...domain server (255.255.255.255)"
% Unknown command or computer name, or unable to find computer address
S1#copy
S1#copy ru
S1#copy running-config s
S1#copy running-config st
S1#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
S1#
```

Top

Scenario 0

New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

Console

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical 644 v 272

2960 24TT Switch0 2960 24TT Switch1 PC-PT PC0 PC-PT PC1

PC1

Physical Config Desktop Programming Attributes

Terminal

```
Switchenable
Switchconfig t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname S2
S2(config)#line console 0
S2(config-line)#password cisco
S2(config-line)#login
S2(config-line)#end
S2#
NSVS-5-CONFIG_1: Configured from console by console

S2#config t
Enter configuration commands, one per line. End with CNTL/Z.
S2(config)#line vty 0 4
S2(config-line)#password cisco
S2(config-line)#login
S2(config-line)#exit
S2(config)#enable password class
S2(config)#interface vlan 1
S2(config-if)#ip address 192.168.1.12 255.255.255.0
S2(config-if)#no shutdown
S2(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
S2(config-if)#exit
S2(config)#exit
S2#
NSVS-5-CONFIG_1: Configured from console by console

S2#copy run
Source running-config st
S2#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
S2#
```

Time: 00:10:46

Scenario 0

New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

Console

Realtime Simulation

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical 1381 v 189

2960 24TT Switch0 2960 24TT Switch1 PC-PT PC0 PC-PT PC1

PC0

Physical Config Desktop Programming Attributes

Command Prompt

```
Bluetooth Connection:
Connection-specific DNS Suffix...:
Link-local IPv6 Address...:::
IPv6 Address...:::
IPv4 Address...::: 0.0.0.0
Subnet Mask...::: 0.0.0.0
Default Gateway...::: 0.0.0.0

C:\>ipconfig ?
Invalid Command.

C:\>ipconfig /if
Invalid Command.

C:\>ipconfig
FastEthernet0 Connection (default port)

Connection-specific DNS Suffix...:
Link-local IPv6 Address...:: FE80::200:2FFF:FE3D:8AC7
IPv6 Address...::: 1
IPv4 Address...::: 192.168.1.1
Subnet Mask...::: 255.255.255.0
Default Gateway...::: 0.0.0.0

Bluetooth Connection:
Connection-specific DNS Suffix...:
Link-local IPv6 Address...:::
IPv6 Address...:::
IPv4 Address...::: 0.0.0.0
Subnet Mask...::: 0.0.0.0
Default Gateway...::: 0.0.0.0

C:\>
```

Time: 00:11:22

Scenario 0

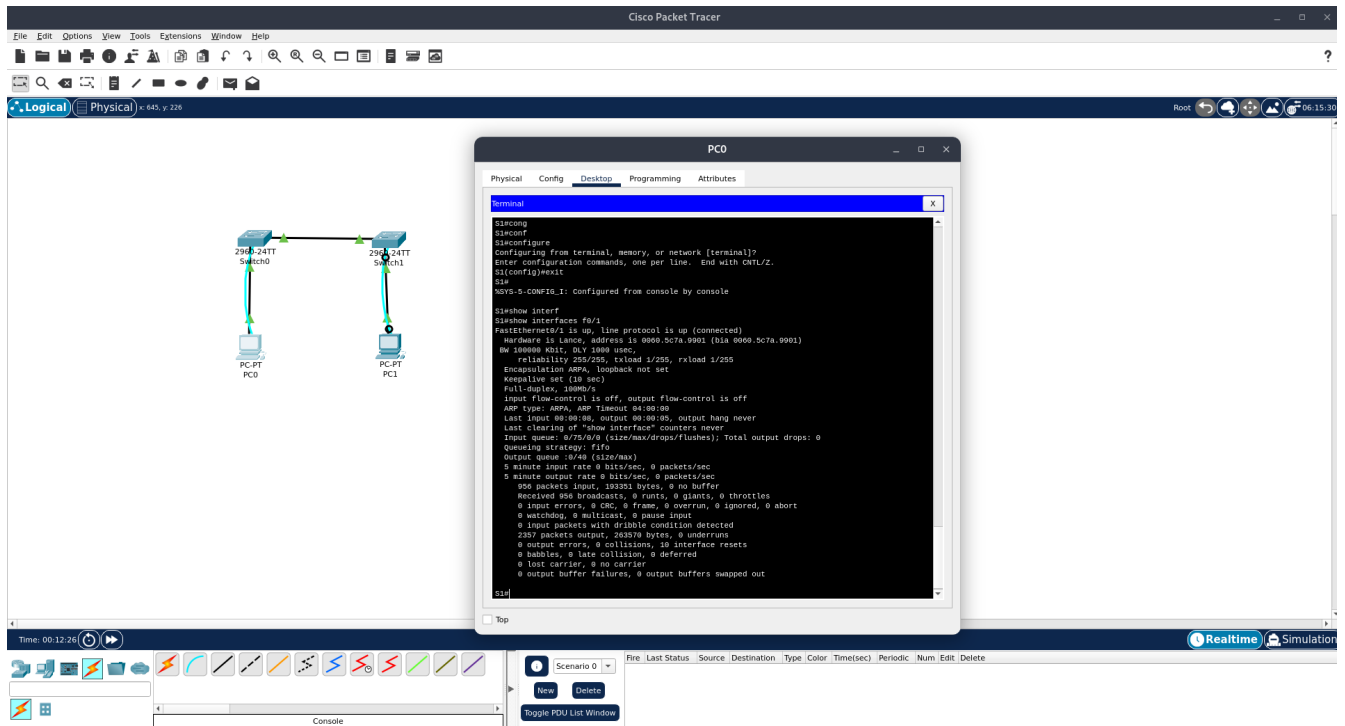
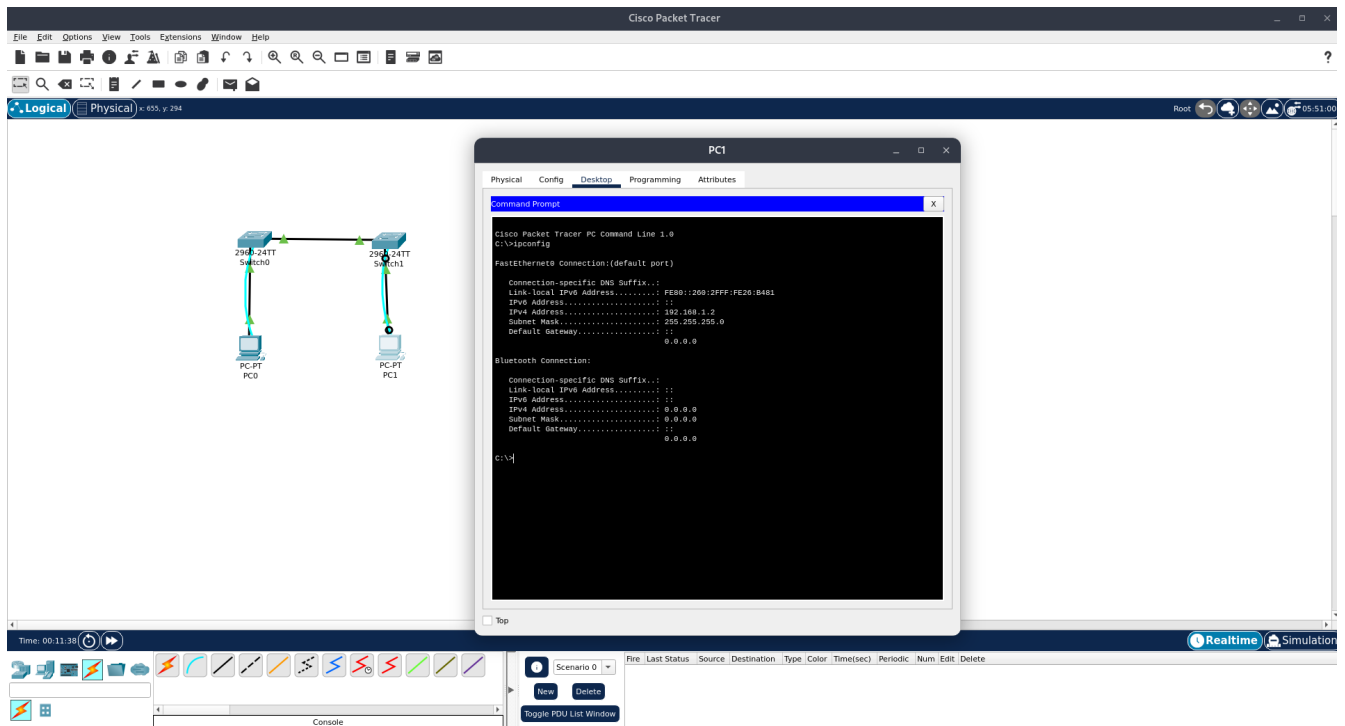
New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

Console

Realtime Simulation



Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical 639 v 274

Time: 00:12:46

Scenario 0

PC1

```
terminal
E2#
NOV5-5-CONF1: Configured from console by console

E2#copy run
E2#copy running-config startup-config
Destination filename [startup-config]:
Building configuration...
[OK]
E2#show inter
E2#show interfaces fa/1
FastEthernet0/1 is up, line protocol is up (connected)
Hardware is Lance, address is 0800.4753.0501 (bia 0800.4753.0501)
MTU 1500 bytes, 8V 1800 usec,
reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Full-duplex, 100Mb/s
Input flow-control is off, output flow-control is off
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:00, output 00:00:00, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
0 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
956 packets input, 103351 bytes, 0 no buffer
Received 956 broadcasts, 0 runt, 0 giants, 0 throttles
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
0 watchdog, 0 multicast, 0 pause input
0 input packets with dribble condition detected
2357 packets output, 263570 bytes, 0 underruns
0 output errors, 0 collisions, 10 interface resets
0 babbles, 0 late collision, 0 deferred
0 lost carrier, 0 no carrier
0 output buffer failures, 0 output buffers swapped out
E2#
```

Realtime Simulation

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical 639 v 274

Time: 00:13:12

Scenario 0

PC1

```
terminal
E2#show inter
E2#show interfaces fa/1
FastEthernet0/1 is up, line protocol is up (connected)
Hardware is Lance, address is 0800.4753.0501 (bia 0800.4753.0501)
MTU 1500 bytes, 8V 1800 usec,
reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Full-duplex, 100Mb/s
Input flow-control is off, output flow-control is off
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:00, output 00:00:00, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
0 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
956 packets input, 103351 bytes, 0 no buffer
Received 956 broadcasts, 0 runt, 0 giants, 0 throttles
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
0 watchdog, 0 multicast, 0 pause input
0 input packets with dribble condition detected
2357 packets output, 263570 bytes, 0 underruns
0 output errors, 0 collisions, 10 interface resets
0 babbles, 0 late collision, 0 deferred
0 lost carrier, 0 no carrier
0 output buffer failures, 0 output buffers swapped out
E2#show mac-a
E2#show mac-address-table
Mac Address Table
-----
Vlan    Mac Address      Type      Ports
----    -
1       0800.5c7a.0001   DYNAMIC   Fa0/1
E2#
```

Realtime Simulation

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical 639 v 274

2960 24TT Switch0 2960 24TT Switch1 PC-PT PC0 PC-PT PC1

PC1

Physical Config Desktop Programming Attributes

terminal

```
Hardware is Lame, address is 0000.4753.0001 (bia 0000.4753.0001)
BW 1000000 Kbit, DLV 1000 usec,
reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Full-duplex, 1000000
Input flow-control is off, output flow-control is off
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:00, output 00:00:00, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate: 0 bits/sec, 0 packets/sec
5 minute output rate: 0 bits/sec, 0 packets/sec
950 packets input, 103351 bytes, 0 no buffer
Received 890 broadcasts, 0 runs, 0 giants, 0 throttles
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
0 watchdog, 0 multicast, 0 pause input
0 input packets with dribble condition detected
2357 packets output, 263570 bytes, 0 underruns
0 output errors, 0 collisions, 0 interface resets
0 babbles, 0 late collision, 0 deferred
0 lost carrier, 0 no carrier
0 output buffer failures, 0 output buffers swapped out

S29#show mac-a
S29#show mac-address-table
      Mac Address Table
-----
Vlan  Mac Address      Type      Ports
----  -
1      0000.5c7a.9901    DYNAMIC   Fa0/1

S29#clear mac-a
S29#clear mac-address-table dy
S29#clear mac-address-table dynamic
S29#
```

Time: 00:13:35

Scenario 0

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

New Delete

Toggle PDU List Window

Console

Realtime Simulation

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical 639 v 274

2960 24TT Switch0 2960 24TT Switch1 PC-PT PC0 PC-PT PC1

PC1

Physical Config Desktop Programming Attributes

terminal

```
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:00, output 00:00:00, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate: 0 bits/sec, 0 packets/sec
5 minute output rate: 0 bits/sec, 0 packets/sec
950 packets input, 103351 bytes, 0 no buffer
Received 890 broadcasts, 0 runs, 0 giants, 0 throttles
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
0 watchdog, 0 multicast, 0 pause input
0 input packets with dribble condition detected
2357 packets output, 263570 bytes, 0 underruns
0 output errors, 0 collisions, 0 interface resets
0 babbles, 0 late collision, 0 deferred
0 lost carrier, 0 no carrier
0 output buffer failures, 0 output buffers swapped out

S29#show mac-a
S29#show mac-address-table
      Mac Address Table
-----
Vlan  Mac Address      Type      Ports
----  -
1      0000.5c7a.9901    DYNAMIC   Fa0/1

S29#clear mac-a
S29#clear mac-address-table dy
S29#clear mac-address-table dynamic
S29#show mac-address-table
      Mac Address Table
-----
Vlan  Mac Address      Type      Ports
----  -
1      0000.5c7a.9901    DYNAMIC   Fa0/1

S29#
```

Time: 00:13:49

Scenario 0

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

New Delete

Toggle PDU List Window

Console

Realtime Simulation

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical 619 v 214

2950 24TT Switch0 2950 24TT Switch1 PC-PT PC0 PC-PT PC1

PC1

Physical Config Desktop Programming Attributes

Terminal

```
256 packets input, 283321 bytes, 0 no buffer
Received 256 broadcasts, 0 runts, 0 giants, 0 throttles
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
0 watchdog, 0 multicast, 0 pause input
0 input packets with dribble condition detected
2567 packets output, 26578 bytes, 0 underruns
0 output errors, 0 collisions, 30 interface resets
0 babble, 0 late collision, 0 deferred
0 lost carrier, 0 no carrier
0 output buffer failures, 0 output buffers swapped out

S29show mac-a
S29show mac-address-table
Mac Address Table
-----
Vlan    Mac Address      Type    Ports
-----
1       0800.5c7a.9901   DYNAMIC Fa0/1

S29clear mac-a
S29clear mac-address-table dy
S29clear mac-address-table dynamic
S29show mac-address-table
Mac Address Table
-----
Vlan    Mac Address      Type    Ports
-----
1       0800.5c7a.9901   DYNAMIC Fa0/1

S29
```

Time: 00:14:04

Scenario 0

New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

Console

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical 623 v 171

2950 24TT Switch0 2950 24TT Switch1 PC-PT PC0 PC-PT PC1

PC1

Physical Config Desktop Programming Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ipconfig

FastEthernet Connection (default port)
Connection-specific DNS Suffix...:
Link-local IPv6 Address . . . . .: FE80::200:2FFF:FE20:0481
IPv6 Address. . . . .: ::
IPv6 Address. . . . .: 352.168.1.2
Subnet Mask . . . . .: 255.255.255.0
Default Gateway . . . . .:
0.0.0.0

Bluetooth Connection:
Connection-specific DNS Suffix...:
Link-local IPv6 Address . . . . .: ::
IPv6 Address. . . . .: 0.0.0.0
IPv6 Address. . . . .: 0.0.0.0
Subnet Mask . . . . .: 0.0.0.0
Default Gateway . . . . .:
0.0.0.0

C:\>arp -a
No ARP Entries Found
C:\>arp -a
No ARP Entries Found
C:\>
```

Time: 00:14:43

Scenario 0

New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

Console

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical 623 v 171

2950-24TT Switch0 2950-24TT Switch1 PC-PT PC0 PC-PT PC1

PC1

Physical Config Desktop Programming Attributes

Command Prompt

```
Request timed out.
Reply from 192.168.1.12: bytes=32 time=ms TTL=255
Reply from 192.168.1.12: bytes=32 time=ms TTL=255
Reply from 192.168.1.12: bytes=32 time=ms TTL=255
Ping statistics for 192.168.1.12:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 192.168.1.12

Pinging 192.168.1.12 with 32 bytes of data:
Reply from 192.168.1.12: bytes=32 time=ms TTL=255
Reply from 192.168.1.12: bytes=32 time=ms TTL=255
Reply from 192.168.1.12: bytes=32 time=ms TTL=255
Reply from 192.168.1.12: bytes=32 time=ms TTL=255
Ping statistics for 192.168.1.12:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:
Reply from 192.168.1.1: bytes=32 time=ms TTL=128
Reply from 192.168.1.1: bytes=32 time=ms TTL=128
Reply from 192.168.1.1: bytes=32 time=ms TTL=128
Reply from 192.168.1.1: bytes=32 time=ms TTL=128
Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>
```

Time: 00:15:52

Scenario 0

New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

Console

Realtime Simulation

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical 623 v 171

2950-24TT Switch0 2950-24TT Switch1 PC-PT PC0 PC-PT PC1

PC1

Physical Config Desktop Programming Attributes

Terminal

```
S2#show mac-a
S2#show mac-address-table
Mac Address Table
-----
Vlan    Mac Address      Type    Ports
----
1       0800.5c7a.9901   DYNAMIC Fa0/1

S2#clear mac-a
S2#clear mac-address-table dy
S2#clear mac-address-table dynamic
S2#show mac-address-table
Mac Address Table
-----
Vlan    Mac Address      Type    Ports
----
1       0800.5c7a.9901   DYNAMIC Fa0/1

S2#show mac-address-table
Mac Address Table
-----
Vlan    Mac Address      Type    Ports
----
1       0800.5c7a.9901   DYNAMIC Fa0/1
1       0800.542e.b486   DYNAMIC Fa0/1
1       0800.2f2e.b481   DYNAMIC Fa0/18
1       0800.2f2e.b8c7   DYNAMIC Fa0/1
1       0800.5c7a.9901   DYNAMIC Fa0/1

S2#
```

Time: 00:16:08

Scenario 0

New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

Console

Realtime Simulation



Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical 623 v 171

2950 24TT Switch0 2950 24TT Switch1 PC-P1 PC0

PC1

Physical Config Desktop Programming Attributes

Command Prompt

```
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
  Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.1.12

Pinging 192.168.1.12 with 32 bytes of data:

Reply from 192.168.1.12: bytes=32 time=13ms TTL=255
Reply from 192.168.1.12: bytes=32 time=13ms TTL=255
Reply from 192.168.1.12: bytes=32 time=13ms TTL=255
Reply from 192.168.1.12: bytes=32 time=13ms TTL=255

Ping statistics for 192.168.1.12:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
      Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time=12ms TTL=128
Reply from 192.168.1.1: bytes=32 time=12ms TTL=128
Reply from 192.168.1.1: bytes=32 time=12ms TTL=128
Reply from 192.168.1.1: bytes=32 time=12ms TTL=128

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
      Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>arp -a

Internet Address      Physical Address      Type
192.168.1.1           0800.2f2d.b8c7        dynamic
192.168.1.11          0803.e42e.b408        dynamic
192.168.1.12          0803.c908.75ee        dynamic

C:\>
```

Time: 00:16:23

Scenario 0

New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

Console

Realtime Simulation