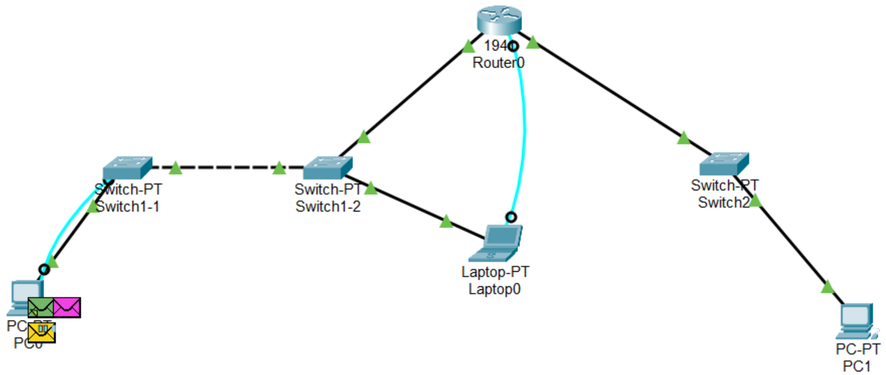
Cisco Packet Tracer - C:\Users\mark\Cisco Packet Tracer 8.2.2\saves\lab4.pkt

File Edit Options View Tools Extensions Window Help

Logical | Physical | x: 2094, y: 883 | Root | 20:04:30



Simulation Panel

Event List

Vis.	Time(sec)	Last Device
	0.000	--
	0.000	--
	0.000	--
	0.000	--
	0.000	--
	0.001	PC0
	0.001	--
	0.002	PC0
	0.002	Switch1-1
	0.003	Switch1-1
	0.003	Switch1-2
	0.003	Switch1-2
	0.004	Switch1-2
	0.004	Switch1-2
	0.005	Laptop0
	0.006	Switch1-2
	0.007	Switch1-1
	0.007	--
	0.007	--

Reset Simulation | Constant Delay | Captured to: 0.007 s

Play Controls

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPSec, ISAKMP, IoT, IoT TCP, LACP, LLDP, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoED, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters | Show All/None

Time: 02:59:15.833 | PLAY CONTROLS: | Event List | Realtime | Simulation

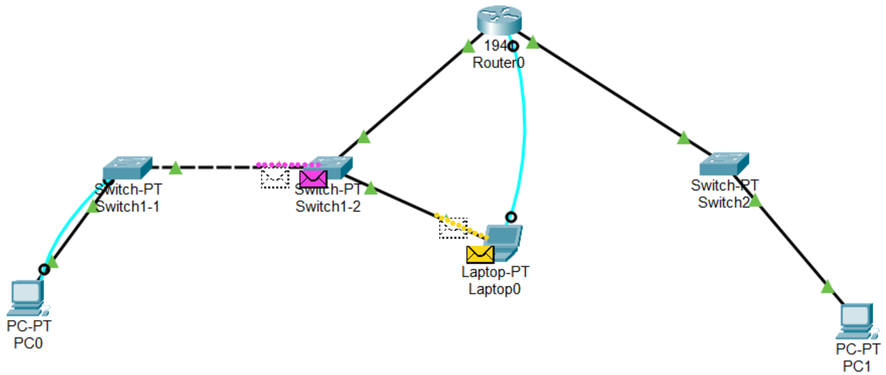
Scenario 0 | New | Delete | Toggle PDU List Window

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

Cisco Packet Tracer - C:\Users\mark\Cisco Packet Tracer 8.2.2\saves\lab4.pkt

File Edit Options View Tools Extensions Window Help

Logical | Physical | x: 887, y: 835 | Root | 20:18:00



Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type
	0.000	--	PC0	ARP
	0.000	--	PC0	ICMP
	0.000	--	PC0	ARP
	0.000	--	PC0	ICMP
	0.000	--	PC0	ARP
	0.001	PC0	Switch1-1	ARP
	0.001	--	PC0	ARP
	0.002	PC0	Switch1-1	ARP
	0.002	Switch1-1	Switch1-2	ARP
	0.003	Switch1-1	Switch1-2	ARP
	0.003	Switch1-2	Router0	ARP
	0.003	Switch1-2	Laptop0	ARP
	0.004	Switch1-2	Router0	ARP
	0.004	Switch1-2	Laptop0	ARP
	0.005	Laptop0	Switch1-2	ARP
	0.006	Switch1-2	Switch1-1	ARP
	0.007	Switch1-1	PC0	ARP
	0.007	--	PC0	ICMP
	0.007	--	PC0	ICMP
	0.008	PC0	Switch1-1	ICMP
	0.008	--	PC0	ICMP
	0.009	PC0	Switch1-1	ICMP
	0.009	Switch1-1	Switch1-2	ICMP
	0.010	Switch1-1	Switch1-2	ICMP
	0.010	Switch1-2	Laptop0	ICMP
	0.011	Switch1-2	Laptop0	ICMP
	0.011	Laptop0	Switch1-2	ICMP
	0.012	Laptop0	Switch1-2	ICMP
	0.012	Switch1-2	Switch1-1	ICMP

Reset Simulation | Constant Delay | Capturing...

Play Controls

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPSec, ISAKMP, IoT, IoT TCP, LACP, LLDP, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoED, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters | Show All/None

Time: 02:59:15.838 | PLAY CONTROLS: | Event List | Realtime | Simulation

Scenario 0 | New | Delete | Toggle PDU List Window

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

PC0

Physical Config Desktop Programming Attributes

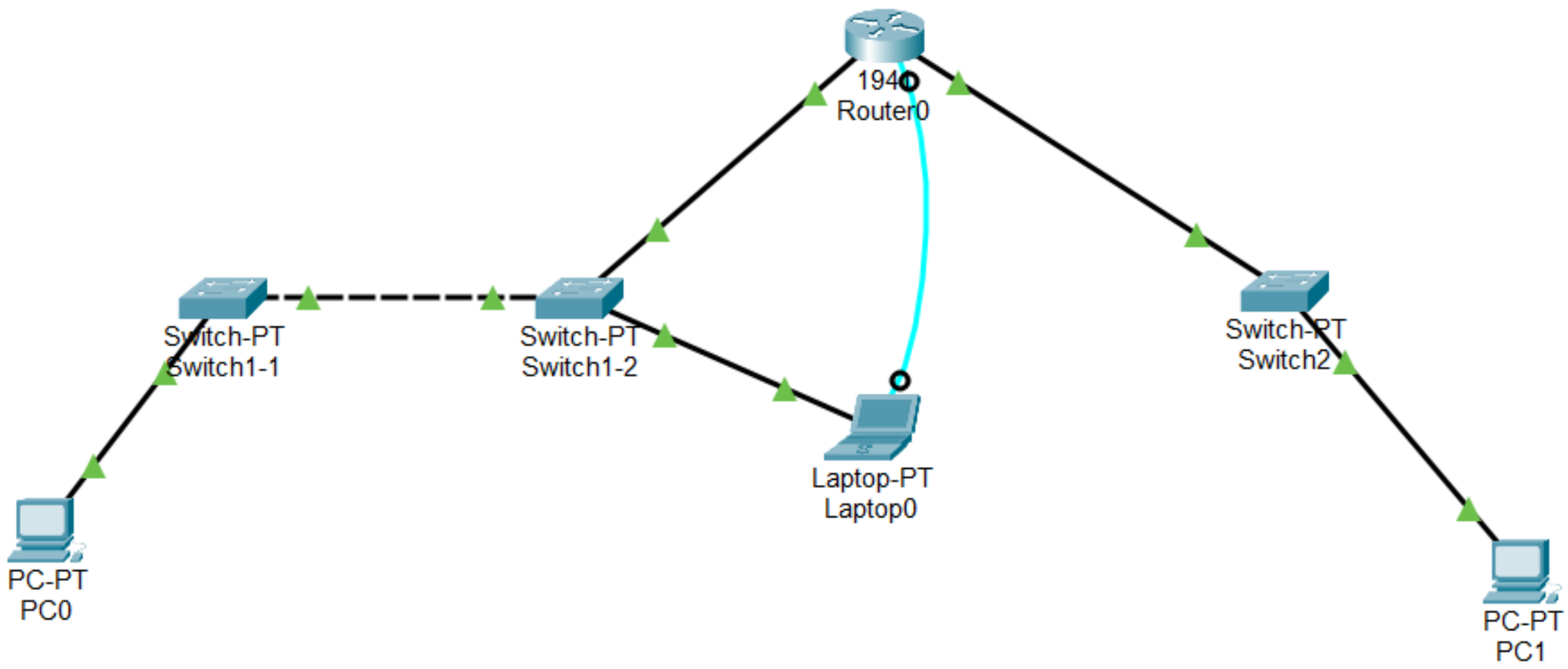
Command Prompt

```
C:\>ping 192.168.1.3 -n 1

Pinging 192.168.1.3 with 32 bytes of data:

Reply from 192.168.1.3: bytes=32 time=14ms
TTL=128

Ping statistics for 192.168.1.3:
    Packets: Sent = 1, Received = 1, Lost =
0 (0% loss),
Approximate round trip times in milli-
seconds:
    Minimum = 14ms, Maximum = 14ms, Average
= 14ms

C:\>ping 10.1.1.2

Pinging 10.1.1.2 with 32 bytes of data:

Reply from 10.1.1.2: bytes=32 time=16ms
TTL=127
```

Cisco Packet Tracer - C:\Users\mark\Cisco Packet Tracer 8.2.2\saves\lab4.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical x: 958, y: 1082 Root 09:40:00



Time: 00:19:04 Realtime Simulation

Scenario 0 New Delete

Fire Last Status Sour

Laptop0

Physical | Config | Desktop | Programming | Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

DHCP | Static

DHCP request successful.

IPv4 Address: 192.168.1.3

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

DNS Server: 0.0.0.0

IPv6 Configuration

Automatic | Static

IPv6 Address: /

Link Local Address: FE80::260:3EFF:FE8B:478D

Default Gateway:

DNS Server:

802.1X

Use 802.1X Security

Authentication: MD5

Username:

Password:

PC0

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>ipconfig /all

FastEthernet0 Connection:(default port)

   Connection-specific DNS Suffix..:
   Physical Address.................: 0002.16E3.BC43
   Link-local IPv6 Address.........: FE80::202:16FF:FEE3:BC43
   IPv6 Address....................: ::
   IPv4 Address....................: 192.168.1.2
   Subnet Mask.....................: 255.255.255.0
   Default Gateway.................: ::
                                     192.168.1.1
   DHCP Servers....................: 192.168.1.1
   DHCPv6 IAID.....................:
   DHCPv6 Client DUID..............: 00-01-00-01-D3-72-26-B6-00-02-16-E3-BC-43
   DNS Servers.....................: ::
                                     0.0.0.0

Bluetooth Connection:

   Connection-specific DNS Suffix..:
   Physical Address.................: 0040.0B3C.382D
   Link-local IPv6 Address.........: ::

C:\>arp -a
No ARP Entries Found
C:\>ping 10.1.1.2

Pinging 10.1.1.2 with 32 bytes of data:

Request timed out.
Reply from 10.1.1.2: bytes=32 time=1ms TTL=127

Ping statistics for 10.1.1.2:
    Packets: Sent = 2, Received = 1, Lost = 1 (50% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 1ms, Average = 1ms

Control-C
^C
C:\>ping 10.1.1.2

Pinging 10.1.1.2 with 32 bytes of data:

Reply from 10.1.1.2: bytes=32 time<1ms TTL=127
Reply from 10.1.1.2: bytes=32 time=4ms TTL=127
Reply from 10.1.1.2: bytes=32 time<1ms TTL=127
Reply from 10.1.1.2: bytes=32 time=1ms TTL=127
```

Laptop0

Physical Config Desktop Programming Attributes

Command Prompt

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

FastEthernet0 Connection:(default port)

   Connection-specific DNS Suffix..:
   Physical Address.................: 0060.3E8B.478D
   Link-local IPv6 Address.........: FE80::260:3EFF:FE8B:478D
   IPv6 Address....................: ::
   IPv4 Address....................: 192.168.1.3
   Subnet Mask.....................: 255.255.255.0
   Default Gateway.................: ::
                                     192.168.1.1
   DHCP Servers....................: 192.168.1.1
   DHCPv6 IAID.....................:
   DHCPv6 Client DUID..............: 00-01-00-01-3E-88-9D-60-00-60-3E-8B-47-8D
   DNS Servers.....................: ::
                                     0.0.0.0

Bluetooth Connection:

   Connection-specific DNS Suffix..:
   Physical Address.................: 0004.9A08.4C54
   Link-local IPv6 Address.........: ::

C:\>arp -a
No ARP Entries Found
C:\>ping 192.168.1.2

Pinging 192.168.1.2 with 32 bytes of data:

Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
Reply from 192.168.1.2: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.1.2:
    Packets: Sent = 3, Received = 3, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

Control-C
^C
C:\>
```

PC0

Physical Config Desktop Programming Attributes

Terminal

```
IOS (tm) PT3000 Software (PT3000-I6Q4L2-M), Version 12.1(22)EA4, RELEASE SOFTWARE (fc1)
Copyright (c) 1986-2006 by cisco Systems, Inc.
Compiled Fri 12-May-06 17:19 by pt_team

Cisco WS-CSwitch-PT (RC32300) processor (revision C0) with 21039K bytes of memory.
Processor board ID FHK0610Z0WC
Running Standard Image
6 FastEthernet/IEEE 802.3 interface(s)

63488K bytes of flash-simulated non-volatile configuration memory.
Base ethernet MAC Address: 00E0.B00B.2964
Motherboard assembly number: 73-5781-09
Power supply part number: 34-0965-01
Motherboard serial number: FOC061004SZ
Power supply serial number: DAB0609127D
Model revision number: C0
Motherboard revision number: A0
Model number: WS-CSwitch-PT
System serial number: FHK0610Z0WC

Cisco Internetwork Operating System Software
IOS (tm) PT3000 Software (PT3000-I6Q4L2-M), Version 12.1(22)EA4, RELEASE SOFTWARE (fc1)
Copyright (c) 1986-2006 by cisco Systems, Inc.
Compiled Fri 12-May-06 17:19 by pt_team

Press RETURN to get started!


%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

%LINK-5-CHANGED: Interface FastEthernet1/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/1, changed state to up


Switch>show mac address-table
          Mac Address Table
-------------------------------------------

Vlan    Mac Address       Type        Ports
----    -----------       --------    -----

   1    0001.42dc.2979    DYNAMIC     Fa0/1
   1    0002.16e3.bc43    DYNAMIC     Fa1/1
   1    0060.3e8b.478d    DYNAMIC     Fa0/1
   1    0090.2b77.ba01    DYNAMIC     Fa0/1
Switch>
```

Top

PDU Information at Device: PC1

OSI Model | Inbound PDU Details | Outbound PDU Details

At Device: PC1
Source: PC0
Destination: 10.1.1.2

In Layers	Out Layers
Layer7	Layer7
Layer6	Layer6
Layer5	Layer5
Layer4	Layer4
Layer 3: IP Header Src. IP: 192.168.1.2, Dest. IP: 10.1.1.2 ICMP Message Type: 8	Layer 3: IP Header Src. IP: 10.1.1.2, Dest. IP: 192.168.1.2 ICMP Message Type: 0
Layer 2: Ethernet II Header 0090.2B77.BA02 >> 0090.2BB0.38B2	Layer 2: Ethernet II Header 0090.2BB0.38B2 >> 0090.2B77.BA02
Layer 1: Port FastEthernet0	Layer 1: Port(s): FastEthernet0

1. FastEthernet0 receives the frame.

Challenge Me | << Previous Layer | Next Layer >>

Laptop0

Physical Config Desktop Programming Attributes

Terminal

```
Press RETURN to get started!



Router>enable
Router#show ip interface brief
Interface              IP-Address      OK? Method Status                Protocol
GigabitEthernet0/0     unassigned      YES unset  administratively down down
GigabitEthernet0/1     unassigned      YES unset  administratively down down
Vlan1                  unassigned      YES unset  administratively down down
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface GigabitEthernet0/0
Router(config-if)#ip address 192.168.1.1 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to
up
exit
Router(config)#interface GigabitEthernet0/1
Router(config-if)#ip address 10.1.1.1 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to
up
exit
Router(config)#ip dhcp pool LW4_1
Router(dhcp-config)#network 192.168.1.0 255.255.255.0
Router(dhcp-config)#default-router 192.168.1.1
Router(dhcp-config)#exit
Router(config)#ip dhcp pool LW4_2
Router(dhcp-config)#network 10.1.1.0 255.255.255.0
Router(dhcp-config)#default-router 10.1.1.1
Router(dhcp-config)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
show ip interface brief
Interface              IP-Address      OK? Method Status                Protocol
GigabitEthernet0/0     192.168.1.1     YES manual up                    up
GigabitEthernet0/1     10.1.1.1        YES manual up                    up
Vlan1                  unassigned      YES unset  administratively down down
Router#
```

PC1

Physical Config Desktop Programming Attributes

Command Prompt

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

FastEthernet0 Connection:(default port)

   Connection-specific DNS Suffix..:
   Physical Address.................: 0090.2BB0.38B2
   Link-local IPv6 Address.........: FE80::290:2BFF:FEB0:38B2
   IPv6 Address....................: ::
   IPv4 Address....................: 10.1.1.2
   Subnet Mask.....................: 255.255.255.0
   Default Gateway.................: ::
                                     10.1.1.1
   DHCP Servers....................: 10.1.1.1
   DHCPv6 IAID.....................:
   DHCPv6 Client DUID..............: 00-01-00-01-C8-AD-6A-06-00-90-2B-B0-38-B2
   DNS Servers.....................: ::
                                     0.0.0.0

Bluetooth Connection:

   Connection-specific DNS Suffix..:
   Physical Address.................: 0030.F20D.E844
   Link-local IPv6 Address.........: ::

C:\>rp -a
Invalid Command.

C:\>arp -a
No ARP Entries Found
C:\>ping 192.168.1.3

Pinging 192.168.1.3 with 32 bytes of data:

Request timed out.
Reply from 192.168.1.3: bytes=32 time=1ms TTL=127
Reply from 192.168.1.3: bytes=32 time=1ms TTL=127
Reply from 192.168.1.3: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.1.3:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
C:\>
```

Top

```
C:\>arp -a
  Internet Address      Physical Address      Type
  192.168.1.1           0090.2b77.ba01        dynamic
  192.168.1.3           0060.3e8b.478d        dynamic
```