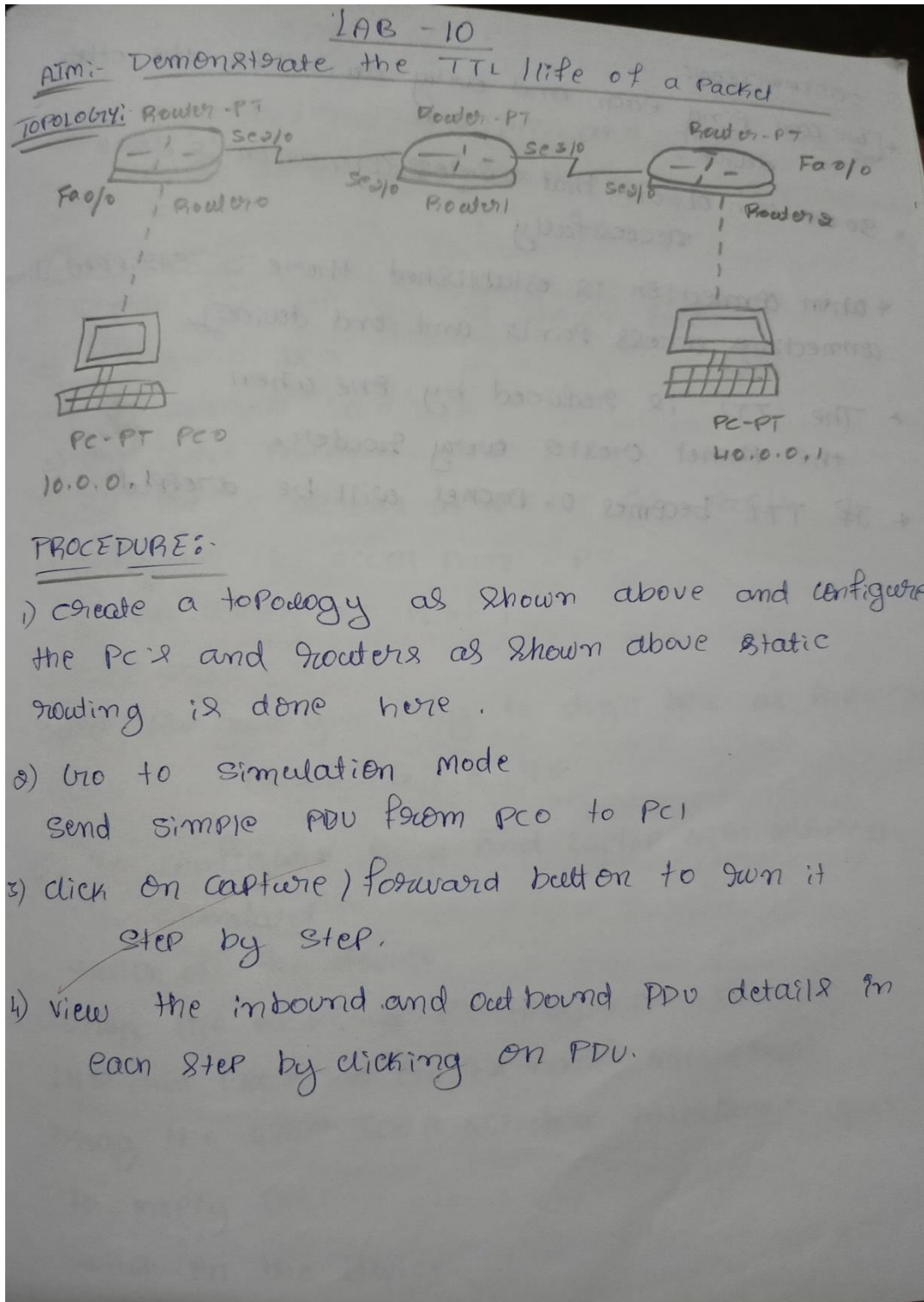


LAB 10

Demonstrate the TTL/ Life of a Packet.

OBSERVATION:



OBSERVATION:-

* We can Ping each and every device to the other device.

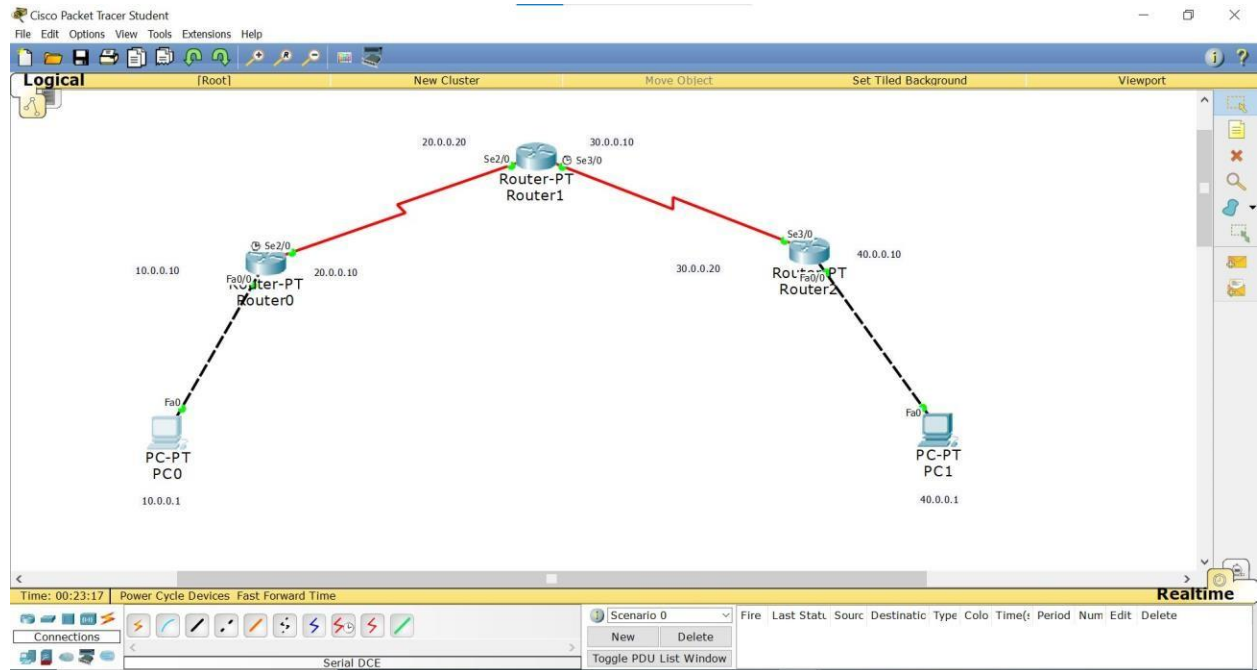
* So we can observe that wireless connection is done successfully.

* When connection is established there is stripped connecting access points and end devices.

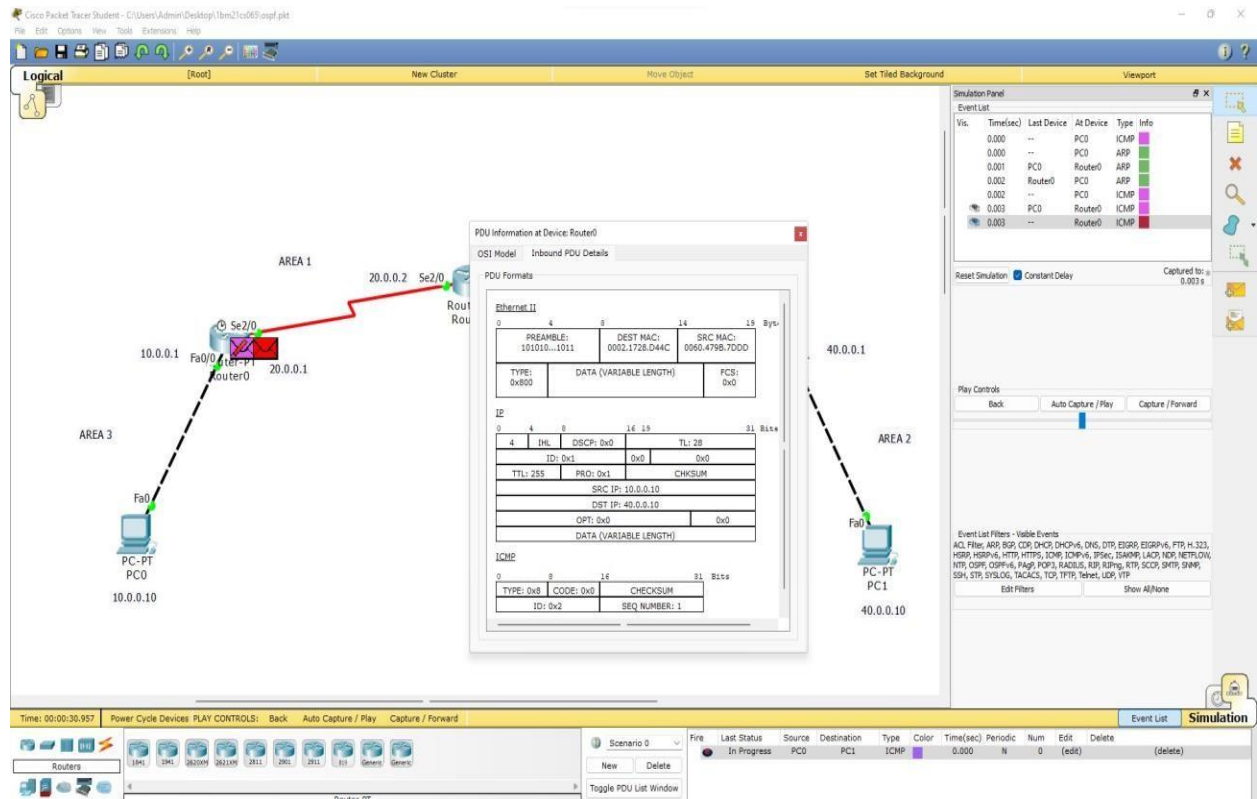
* The TTL is reduced by one when the packet crosses every router.

* If TTL becomes 0, packet will be dropped.

TOPOLOGY:



OUTPUT:



Cisco Packet Tracer Student - C:\Users\Admin\Desktop\1bm21c065\ospf.pkt

File Edit Options View Tools Extensions Help

Logical [root] New Cluster Move Object Set Tiled Background Viewport

Area 1: 20.0.0.0/24
Area 2: 40.0.0.0/24
Area 3: 10.0.0.0/24

Router0: Se2/0 (20.0.0.2) to Fa0/0 (10.0.0.1)
Router1: Se2/0 (20.0.0.2) to Fa0/0 (40.0.0.1)

PC-PT PC0: 10.0.0.10
PC-PT PC1: 40.0.0.10

PDU Information at Device: Router1

OSI Model Inbound PDU Details Outbound PDU Details

PDU Formats

PPP

0	8	16	24	40	48	56	64	Bits
FLG:	ADR:	CTR:	PROT:	LCP:	PCS:	FLG:		
0111	0x0f	0x3	0x21	(VARIABLE LENGTH)	0x0	0111		

ID: 0x3

TTL: 254

PRO: 0x1

CHECKSUM

SRC IP: 10.0.0.10

DST IP: 40.0.0.10

OPT: 0x0

DATA (VARIABLE LENGTH)

ICMP

0	8	16	31	Bits
TYPE:	CODE:	CHECKSUM		
0x4	0x0			
ID:	SEQ NUMBER:			
0x4	3			

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type	Info
	0.000	PC0	Router0	ICMP	
	0.001	PC0	Router0	ICMP	
	0.002	Router0	Router1	ICMP	

Reset Simulation Constant Delay Captured to: 0.002 s

Play Controls: Back Auto Capture / Play Capture / Forward

Event List Filters - Visible Events

AQ, Filter, ARP, BGP, CDP, DHCP, DNS, DTP, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, LACP, NTP, NETFLOW, NTP, OSPF, OSPFv6, PAgg, POP3, RADIUS, RDP, RDPv6, RDP, RDPv6, SSH, STP, SYSLOG, TACACS, TFTP, TFTPv6, Telnet, UDP, VTP

Time: 00:00:37.256 Power Cycle Devices PLAY CONTROLS: Back Auto Capture / Play Capture / Forward

Scenario 0

New Delete

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

In Progress PC0 PC1 ICMP 0.000 N 0 (edit) (delete)

Cisco Packet Tracer Student - C:\Users\Admin\Desktop\1bm21c065\ospf.pkt

File Edit Options View Tools Extensions Help

Logical [root] New Cluster Move Object Set Tiled Background Viewport

Area 1: 20.0.0.0/24
Area 2: 40.0.0.0/24
Area 3: 10.0.0.0/24

Router0: Se2/0 (20.0.0.2) to Fa0/0 (10.0.0.1)
Router1: Se2/0 (20.0.0.2) to Fa0/0 (40.0.0.1)

PC-PT PC0: 10.0.0.10
PC-PT PC1: 40.0.0.10

PDU Information at Device: Router2

OSI Model Inbound PDU Details Outbound PDU Details

PDU Formats

PPP

0	8	16	24	40	48	56	64	Bits
FLG:	ADR:	CTR:	PROT:	LCP:	PCS:	FLG:		
0111	0x0f	0x3	0x21	(VARIABLE LENGTH)	0x0	0111		

ID: 0x3

TTL: 253

PRO: 0x1

CHECKSUM

SRC IP: 10.0.0.10

DST IP: 40.0.0.10

OPT: 0x0

DATA (VARIABLE LENGTH)

ICMP

0	8	16	31	Bits
TYPE:	CODE:	CHECKSUM		
0x4	0x0			
ID:	SEQ NUMBER:			
0x4	3			

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type	Info
	0.000	PC0	Router0	ICMP	
	0.001	PC0	Router0	ICMP	
	0.002	Router0	Router1	ICMP	
	0.003	Router1	Router2	ICMP	

Reset Simulation Constant Delay Captured to: 0.003 s

Play Controls: Back Auto Capture / Play Capture / Forward

Event List Filters - Visible Events

AQ, Filter, ARP, BGP, CDP, DHCP, DNS, DTP, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, LACP, NTP, NETFLOW, NTP, OSPF, OSPFv6, PAgg, POP3, RADIUS, RDP, RDPv6, RDP, RDPv6, SSH, STP, SYSLOG, TACACS, TFTP, TFTPv6, Telnet, UDP, VTP

Time: 00:00:37.257 Power Cycle Devices PLAY CONTROLS: Back Auto Capture / Play Capture / Forward

Scenario 0

New Delete

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

In Progress PC0 PC1 ICMP 0.000 N 0 (edit) (delete)

Logical [Root] New Cluster Move Object Set Tiled Background Viewport

AREA 3

10.0.0.10

10.0.0.1 Fa0/0 Router-PT Router0

20.0.0.1

AREA 1

20.0.0.2 Se2/0 Router1

40.0.0.1

AREA 2

40.0.0.10

PDU Information at Device PC1

OSI Model Inbound PDU Details Outbound PDU Details

PDU Formats

Ethernet II

PREAMBLE:	101010...1011	DEST MAC:	0060.4789.AB50	SRC MAC:	0009.7C28.C636
TYPE:	0x800	DATA (VARIABLE LENGTH)			
FCs: 0x0					

IP

4	IHL	DSCP: 0x0	TL: 28	ID: 0x3	0x0	0x0
TTL: 252			PRO: 0x1	CHKSUM		
SRC IP: 10.0.0.10				DST IP: 40.0.0.10		
OPT: 0x0				0x0		
DATA (VARIABLE LENGTH)						

ICMP

TYPE: 0x8	CODE: 0x0	CHECKSUM
ID: 0x4	SEQ NUMBER: 3	

Simulation Panel

Event List

Time(sec)	Last Device	Alt Device	Type	Info
0.000	--	PC0	ICMP	
0.001	PC0	Router0	ICMP	
0.002	Router0	Router1	ICMP	
0.003	Router1	Router2	ICMP	
0.004	Router2	PC1	ICMP	

Reset Simulation Constant Delay Captured by: 0.004s

Play Controls: Back Auto Capture / Play Capture / Forward

Event List Filters - Visible Events

AQ Filter: ARP, BGP, CDP, DHCP, DNS, DTP, EIGRP, EIGRP-6, FTP, H.323, HSRP, HSRP-6, HTTP, HTTPS, ICMP, ICMP-6, IPsec, ISAKMP, LACP, NTP, NETFLOW, NTP, OSPF, OSPF-6, PAPI, POP3, RADIUS, RDP, RDPing, RDP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, VTP

Edit Filters Show All/None

Time: 00:00:57.258 Power Cycle Devices PLAY CONTROLS: Back Auto Capture / Play Capture / Forward
Event List Simulation

Routers

Scenario 0

New Delete

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
In Progress	PC0	PC1	ICMP			0.000	N	0	(edit)	(delete)