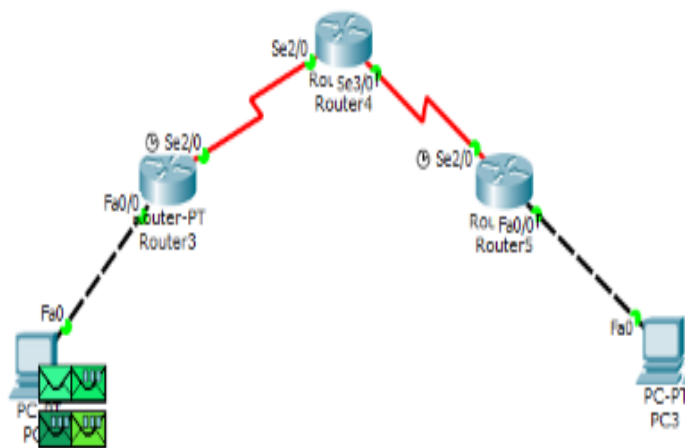


Title: Demonstrate the TTL/ Life of a Packet

Topology:



The image displays two screenshots of the Cisco Packet Tracer interface, illustrating network configuration and packet capture analysis.

Top Screenshot: Shows a network topology with three routers (Rtr S6303, Rtr S6304, Rtr S6305) and two PCs (PC1, PC2). The routers are connected in a chain, and PC1 is connected to Rtr S6303. The interface shows the 'Logical' view with a 'Root' node. The 'Simulation Panel' on the right displays the 'Event List' and 'Simulation' controls. The 'Event List' shows a packet capture event for PC1, with details for the packet (Type: ICMP, Source: 10.0.0.1, Destination: 10.0.0.2).

Bottom Screenshot: Shows the same network topology, but with a packet capture event for PC2. The 'Simulation Panel' on the right displays the 'Event List' and 'Simulation' controls. The 'Event List' shows a packet capture event for PC2, with details for the packet (Type: ICMP, Source: 10.0.0.1, Destination: 10.0.0.2). The 'Packet Details' window is open, showing the 'OSI Model' and 'Outbound PDU Details' for the captured packet. The details include the PDU format (Ethernet II, IP, ICMP) and the packet structure (Preamble, Destination MAC, Source MAC, Type, Data, FCS).

Cisco Packet Tracer Student - C:\Users\Admin\Downloads\TTL.pkt

File Edit Options View Tools Extensions Help

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

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	All Device	Type	Info
0.000	--	PC2	ICMP	ICMP	
0.000	--	PC2	ICMP	ICMP	
0.000	--	PC2	ICMP	ICMP	
0.000	--	PC2	ICMP	ICMP	

Reset Simulation Constant Delay Captured to: 0.000 s

Play Controls: Back Auto Capture / Play Capture / Forward

Event List Filters - Visible Events

ACL Filter, ARP, BGP, CDP, DHCP, DHCPv6, DNS, DTP, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, LACP, NTP, NETFLOW, NTP, OSPF, OSPFv6, PAgg, POP3, RADIUS, RIP, RIPv2, RIPv3, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TFTP, Telnet, UDP, VTY

Simulation

Time: 00:06:43.794 Power Cycle Devices PLAY CONTROLS: Back Auto Capture / Play Capture / Forward

Scenario 0

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
In Progress	PC2	PC3	ICMP	ICMP	0.000	N	0	(edit)	(delete)	
In Progress	PC2	PC3	ICMP	ICMP	0.000	N	1	(edit)	(delete)	
In Progress	PC2	PC3	ICMP	ICMP	0.000	N	2	(edit)	(delete)	
In Progress	PC2	PC3	ICMP	ICMP	0.000	N	3	(edit)	(delete)	

Toggle PDU List Window

PDU Information at Device PC2

OSI Model Outbound PDU Details

PDU Formats

Ethernet II

0		6		8		14		16		31		31	
PREAMBLE: 101010...1011		DEST MAC: 0004.9A49.DB5A		SRC MAC: 000B.BE94.6547									
TYPE: 0x00		DATA (VARIABLE LENGTH)		CHECKSUM		FCs: 0x00							

IP

0		4		8		16		16		31		31	
ID: 0x0		DSCTP: 0x0		TTL: 28		CHECKSUM							
SRC IP: 10.0.0.1		DST IP: 20.0.0.1											
OPT: 0x0		DATA (VARIABLE LENGTH)											

ICMP

0		8		16		31		31	
TYPE: 0x0		CODE: 0x0		CHECKSUM					
ID: 0x6		SEQ NUMBER: 5							

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File Edit Options View Tools Extensions Help

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

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	All Device	Type	Info
0.000	--	PC2	ICMP	ICMP	
0.000	--	PC2	ICMP	ICMP	
0.000	--	PC2	ICMP	ICMP	
0.000	--	PC2	ICMP	ICMP	

Reset Simulation Constant Delay Captured to: 0.000 s

Play Controls: Back Auto Capture / Play Capture / Forward

Event List Filters - Visible Events

ACL Filter, ARP, BGP, CDP, DHCP, DHCPv6, DNS, DTP, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, LACP, NTP, NETFLOW, NTP, OSPF, OSPFv6, PAgg, POP3, RADIUS, RIP, RIPv2, RIPv3, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TFTP, Telnet, UDP, VTY

Simulation

Time: 00:06:43.794 Power Cycle Devices PLAY CONTROLS: Back Auto Capture / Play Capture / Forward

Scenario 0

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
In Progress	PC3	PC3	ICMP	ICMP	0.000	N	0	(edit)	(delete)	
In Progress	PC2	PC3	ICMP	ICMP	0.000	N	1	(edit)	(delete)	
In Progress	PC2	PC3	ICMP	ICMP	0.000	N	2	(edit)	(delete)	
In Progress	PC2	PC3	ICMP	ICMP	0.000	N	3	(edit)	(delete)	

Toggle PDU List Window

PDU Information at Device PC2

OSI Model Outbound PDU Details

PDU Formats

Ethernet II

0		6		8		14		16		31		31	
PREAMBLE: 101010...1011		DEST MAC: 0004.9A49.DB5A		SRC MAC: 000B.BE94.6547									
TYPE: 0x00		DATA (VARIABLE LENGTH)		CHECKSUM		FCs: 0x00							

IP

0		4		8		16		16		31		31	
ID: 0x0		DSCTP: 0x0		TTL: 28		CHECKSUM							
SRC IP: 10.0.0.1		DST IP: 20.0.0.1											
OPT: 0x0		DATA (VARIABLE LENGTH)											

ICMP

0		8		16		31		31	
TYPE: 0x0		CODE: 0x0		CHECKSUM					
ID: 0x7		SEQ NUMBER: 6							

