

EXPERIMENT 7: Demonstrate the TTL/ Life of a Packet

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Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type	Info
	0.000	--	PC3	ICMP	
	0.001	PC3	Router3	ICMP	
	0.002	Router3	Router4	ICMP	
	0.003	Router4	Router5	ICMP	
	0.004	Router5	PC4	ICMP	
	0.005	PC4	Router5	ICMP	
	0.006	Router5	Router4	ICMP	

Reset Simulation ☒ Constant Delay Captured to: 0.006 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, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgp, POP3, RADIUS, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCF, TFTP, Telnet, UDP, VTP

Edit Filters Show All/None

PDU Information at Device: PC4

OSI Model Inbound PDU Details Outbound PDU Details

PDU Formats

Ethernet II

0	4	8	14	19	Byc
PREAMBLE: 101010...1011		DEST MAC: 0004.9A56.3B88		SRC MAC: 0002.1711.24C8	
TYPE: 0x800		DATA (VARIABLE LENGTH)		FCS: 0x0	

IP

0	4	8	16	19	31	Bits
IHL: 5		DSCTP: 0x0		TL: 28		
ID: 0x1		0x0		0x0		
TTL: 128		PRO: 0x1		CHKSUM		
SRC IP: 20.0.0.1						
DST IP: 10.0.0.1						
OPT: 0x0						
DATA (VARIABLE LENGTH)						

ICMP

0	8	16	31	Bits	
TYPE: 0x0		CODE: 0x0		CHECKSUM	
ID: 0x9		SEQ NUMBER: 8			

Event List

Vis.	Time(sec)	Last Device	At Device	Type	Info
	0.000	--	PC3	ICMP	
	0.001	PC3	Router3	ICMP	
	0.002	Router3	Router4	ICMP	
	0.003	Router4	Router5	ICMP	
	0.004	Router5	PC4	ICMP	
	0.005	PC4	Router5	ICMP	
	0.006	Router5	Router4	ICMP	

Reset Simulation ☒ Constant Delay Captured to: 0.006 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, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgp, POP3, RADIUS, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCF, TFTP, Telnet, UDP, VTP

Edit Filters Show All/None

ward Event List Simulation

PDU Information at Device: Router3

OSI Model Inbound PDU Details Outbound PDU Details

PDU Formats

Ethernet II

0	4	8	14	19	Byts
PREAMBLE: 101010...1011		DEST MAC: 000A.F3A2.A716		SRC MAC: 0006.2A6C.77C1	
TYPE: 0x800		DATA (VARIABLE LENGTH)		FCS: 0x0	

IP

0	4	8	16	19	31	Bits
IHL: 0x8		DSCP: 0x0		TL: 28		
ID: 0x8		0x0		0x0		
TTL: 255		PRO: 0x1		CHKSUM		
SRC IP: 10.0.0.1						
DST IP: 20.0.0.1						
OPT: 0x0						0x0
DATA (VARIABLE LENGTH)						

ICMP

0	8	16	31	Bits
TYPE: 0x8		CODE: 0x0		CHECKSUM
ID: 0x9		SEQ NUMBER: 8		

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type	Info
	0.000	--	PC3	ICMP	
✓	0.001	PC3	Router3	ICMP	
	0.002	Router3	Router4	ICMP	
	0.003	Router4	Router5	ICMP	
	0.004	Router5	PC4	ICMP	
	0.005	PC4	Router5	ICMP	
	0.006	Router5	Router4	ICMP	

Reset Simulation ☒ Constant Delay Captured to: 0.006 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, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAP, POP3, RADIUS, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, VTP

Edit Filters Show All/None

PDU Information at Device: Router3

OSI Model Inbound PDU Details Outbound PDU Details

PDU Formats

HDLC

0	8	16	32	32+x	48+x	56+x
FLAG: 0111 1110		ADR: 0x8F	CONTROL: 0x0	DATA: (VARIABLE LENGTH)	FCS: 0x0	FLAG: 0111 1110

IP

0	4	8	16	19	31	Bits
IHL: 0x8		DSCP: 0x0		TL: 28		
ID: 0x8		0x0		0x0		
TTL: 254		PRO: 0x1		CHKSUM		
SRC IP: 10.0.0.1						
DST IP: 20.0.0.1						
OPT: 0x0						0x0
DATA (VARIABLE LENGTH)						

ICMP

0	8	16	31	Bits
TYPE: 0x8		CODE: 0x0		CHECKSUM
ID: 0x9		SEQ NUMBER: 8		

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type	Info
	0.000	--	PC3	ICMP	
✓	0.001	PC3	Router3	ICMP	
	0.002	Router3	Router4	ICMP	
	0.003	Router4	Router5	ICMP	
	0.004	Router5	PC4	ICMP	
	0.005	PC4	Router5	ICMP	
	0.006	Router5	Router4	ICMP	

Reset Simulation ☒ Constant Delay Captured to: 0.006 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, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAP, POP3, RADIUS, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, VTP

Edit Filters Show All/None

Forward Event List **Simulation**

Logical

[Root]

New Cluster

Move Object

Set Tiled Background

Viewport

Router

PC

PDU Information at Device: PC4

OSI Model

Inbound PDU Details

Outbound PDU Details

PDU Formats

Ethernet II

IP

ICMP

Event List

SimulationPanel

Play Controls

Event List Filters - Visible Events

Time: 24:55:01.287

Power Cycle Devices

PLAY CONTROLS:

Back

Auto Capture / Play

Capture / Forward

Event List

Simulation

PDU Information at Device: PC4

OSI Model

Inbound PDU Details

Outbound PDU Details

PDU Formats

Ethernet II

IP

ICMP

SimulationPanel

Event List

Reset Simulation

Constant Delay

Captured to: 0.006 s

Play Controls

Back

Auto Capture / Play

Capture / Forward

Event List Filters - Visible Events

ACL, Filter, AND, BSD, CO, DHCP, DHCPv6, DNS, DTP, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, LACP, NDI, NETFLOW, NTP, OSPF, OSPFv3, PAgg, POP3, RADIUS, RDP, RDPv6, STP, STCP, SPT, SSH, STP, SYSLOG, TACACS, TCF, TFTP, Telnet, UDP, YTP

Edit Filters

Show All/None