

Simulation Panel

Event List

Vis	Time(sec)	Last Device	At Device	Type
	17.190	Switch4	Switch2	DTP
	17.190	—	Switch2	DTP
	17.191	Switch2	Switch4	DTP
	18.392	—	Switch2	STP
	18.393	Switch2	PC5	STP
	18.393	Switch2	Switch1	STP
	18.393	Switch2	Switch4	STP
	18.393	Switch2	Switch0	STP
	18.394	Switch1	Switch0	STP
	18.394	Switch1	PC9	STP
	18.394	Switch4	Switch0	STP
	18.394	Switch4	Switch1	STP
	18.394	Switch4	PC8	STP
	18.394	Switch0	PC7	STP
	19.990	—	Switch2	CDP
	19.990	—	Switch2	CDP
	19.990	—	Switch2	CDP
	19.990	—	Switch2	CDP

Reset Simulation ☒ Constant Delay

Captured to: 19.990 s

Play Controls



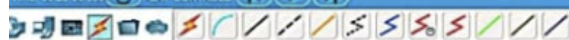
Event List Filters - Visible Events

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, Meraki, NTP, NETFLOW, NTP, OSPF, OSPFv6, PAg, POP3, PPP, PPPoE, PTP, RADIUS, REP, RFP, RFPv6, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TFTP, Telnet, UDP, USB, VTP

Edit Filters

Show All/None

Time: 00:23:06.550 PLAY CONTROLS



Scenario 0

New Delete

Toggle PDU List Window

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

Successful PC7 PC5 ICMP 0.000 N 0 (edit) (delete)

USC PACKET TRACER

File Edit Options View Tools Extensions Help

Logical Physical 1797.777

Simulation Panel

Event List

Vis	Time(sec)	Last Device	At Device	Type
	0.811	Switch2	PC1	STP
	0.811	Switch2	Switch3	STP
	0.812	Switch3	PC3	STP
	0.839	-	Switch3	STP
	0.840	Switch3	PC3	STP
	2.811	-	Switch0	STP
	2.812	Switch0	Switch1	STP
	2.812	Switch0	Switch2	STP
	2.812	Switch0	PC4	STP
	2.813	Switch1	Switch3	STP
	2.813	Switch1	PC2	STP
	2.813	Switch2	PC1	STP
	2.813	Switch2	Switch3	STP
	2.814	Switch3	PC3	STP
	4.813	-	Switch0	STP
	4.814	Switch0	Switch1	STP
	4.814	Switch0	Switch2	STP
	4.814	Switch0	PC4	STP

Reset Simulation: ☒ Constant Delay Captured to: 4.814

Play Controls

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTLS, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, IoT, IoT TCP, LACP, LLDP, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgS, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPv2, RTP, SCDP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Time: 00:35:42.454 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

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

Successful	PC0	PC1	ICMP		0.000	N	0	(edit)	(delete)
------------	-----	-----	------	--	-------	---	---	--------	----------

WIND FALCON HUBS

File Edit Options View Tools Extensions Help

Logical Physical x:1855, y:765 [Root] 95.27.3

Simulation Panel

Event List

Vis	Time(sec)	Last Device	AI Device	Type
	0.005	Hub3	PC3	ICMP
	0.005	Hub3	Hub4	ICMP
	0.006	Hub4	PC4	ICMP
	0.006	Hub4	PC7	ICMP
	0.006	Hub4	PC6	ICMP
	0.006	Hub4	PC5	ICMP
	0.007	PC7	Hub4	ICMP
	0.008	Hub4	PC4	ICMP
	0.008	Hub4	PC6	ICMP
	0.008	Hub4	PC5	ICMP
	0.008	Hub4	Hub3	ICMP
	0.009	Hub3	PC3	ICMP
	0.009	Hub3	Hub2	ICMP
	0.010	Hub2	PC1	ICMP
	0.010	Hub2	Hub1	ICMP
	0.011	Hub1	PC2	ICMP
	0.011	Hub1	Hub0	ICMP
	0.012	Hub0	PC0	ICMP

Reset Simulation ☒ Constant Delay Captured to: 0.012 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, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, RADIUS, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPv2, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All Filters

Time: 00:09:55.938 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

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

Successful	PC0	PC7	ICMP	0.000	N	0	(edit)	(delete)
------------	-----	-----	------	-------	---	---	--------	----------

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical 1895, y 508

Simulation Panel

Event List

Time(sec)	Last Device	AI Device	Type
0.000	-	PC0	ICMP
0.001	PC0	Switch1	ICMP
0.002	Switch1	Switch0	ICMP
0.003	Switch0	Switch2	ICMP
0.004	Switch2	PC3	ICMP
0.005	PC3	Switch2	ICMP
0.006	Switch2	Switch0	ICMP
0.007	Switch0	Switch1	ICMP
0.008	Switch1	PC0	ICMP

Reset Simulation ☒ Constant Delay Captured to: 0.008 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, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, RADIUS, POP3, PPP, PPPoE, PTP, RADIUS, REP, RSTP, RSTPv6, RTR, SCDP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TFTP, Tenet, UDP, USB, VTP

Edit Filters Show Actions

Time: 00:07:41.899 PLAY CONTROLS

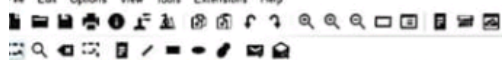
Scenario 6

New Delete

Toggle PDU List Window

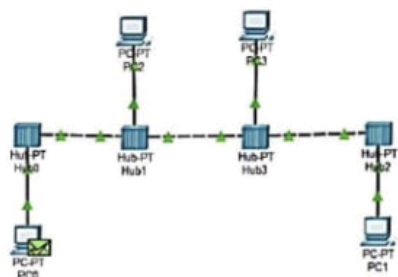
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

Successful	PC0	PC3	ICMP	0.000	N	0	(edit)	(delete)
------------	-----	-----	------	-------	---	---	--------	----------



Logical Physical x 1212, y 791

[Root] 93.523



Simulation Panel

Event List

Vis	Time(sec)	Last Device	AI Device	Type
	0.000	-	PC0	ICMP
	0.001	PC0	Hub0	ICMP
	0.002	Hub0	Hub1	ICMP
	0.003	Hub1	PC2	ICMP
	0.003	Hub1	Hub3	ICMP
	0.004	Hub3	PC3	ICMP
	0.004	Hub3	Hub2	ICMP
	0.005	Hub2	PC1	ICMP
	0.006	PC1	Hub2	ICMP
	0.007	Hub2	Hub3	ICMP
	0.008	Hub3	PC3	ICMP
	0.008	Hub3	Hub1	ICMP
	0.009	Hub1	PC2	ICMP
	0.009	Hub1	Hub0	ICMP
	0.010	Hub0	PC0	ICMP

Reset Simulation ☒ Constant Delay Captured to: 290.401 s

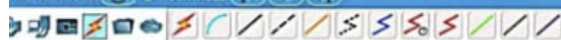
Play Controls



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, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPv2, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All Filters

Time: 00:10:09.536 PLAY CONTROLS



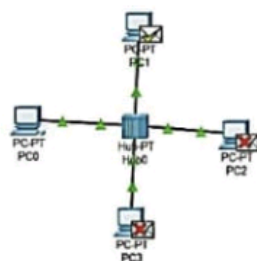
Scenario 6

New Delete

Tools PDU List Window

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

Successful PC0 PC1 ICMP 0.000 N 0 (edit) (delete)



Vis	Time(sec)	Last Device	At Device	Type
	0.000	-	PC1	ARP
	0.001	PC1	HUB0	ARP
	0.002	HUB0	PC2	ARP
	0.002	HUB0	PC3	ARP
	0.002	HUB0	PC0	ARP
	0.003	PC0	HUB0	ARP
	0.004	HUB0	PC1	ARP
	0.004	HUB0	PC2	ARP
	0.004	HUB0	PC3	ARP
	0.004	-	PC1	ICMP
	0.005	PC1	HUB0	ICMP
	0.006	HUB0	PC2	ICMP
	0.006	HUB0	PC3	ICMP
	0.006	HUB0	PC0	ICMP
	0.007	PC0	HUB0	ICMP
	0.008	HUB0	PC1	ICMP
	0.008	HUB0	PC2	ICMP
	0.008	HUB0	PC3	ICMP



Event List Filters - Visible Events
 ACL, Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, D1, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, iST, IoT, LACP, LLDP, Meraki, NTP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIPv2, RIPv3, RIPv6, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Wi-Fi

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

tcp

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	2409:408d:298:8f3b::	2603:1040:a06:6::2	TLSv1.2	175	Application Data
2	0.003395	20.66.110.161	192.168.43.197	TCP	54	443 → 57632 [ACK] Seq=1 Ack=1 Win=1 Len=0
3	0.003710	192.168.43.197	20.66.110.161	TCP	54	[TCP ACKed unseen segment]
4	0.075940	2603:1040:a06:6::2	2409:408d:298:8f3b::	TLSv1.2	245	Application Data
5	0.122125	2409:408d:298:8f3b::	2603:1040:a06:6::2	TCP	74	49450 → 443 [ACK] Seq=102
6	7.304821	2409:408d:298:8f3b::	64:ff9b::34e0:6ca9	TLSv1.2	453	Application Data
7	7.305472	2409:408d:298:8f3b::	64:ff9b::34e0:6ca9	TCP	1444	57524 → 443 [ACK] Seq=380
8	7.590161	64:ff9b::34e0:6ca9	2409:408d:298:8f3b::	TCP	74	443 → 57524 [ACK] Seq=1 A
9	7.590161	64:ff9b::34e0:6ca9	2409:408d:298:8f3b::	TCP	74	443 → 57524 [ACK] Seq=1 A
10	7.590494	2409:408d:298:8f3b::	64:ff9b::34e0:6ca9	TLSv1.2	1039	Application Data
11	7.897162	64:ff9b::34e0:6ca9	2409:408d:298:8f3b::	TCP	74	443 → 57524 [ACK] Seq=1 A
14	29.081448	2409:408d:298:8f3b::	2603:1046:700:48::2	TCP	75	57557 → 443 [ACK] Seq=1 A
15	29.129032	2603:1046:700:48::2	2409:408d:298:8f3b::	TCP	86	443 → 57557 [ACK] Seq=1 A
16	55.105365	104.211.8.250	192.168.43.197	TLSv1.2	85	Encrypted Alert
17	55.105365	104.211.8.250	192.168.43.197	TCP	54	443 → 57634 [FIN, ACK] Seq=
18	55.106093	192.168.43.197	104.211.8.250	TCP	54	57634 → 443 [ACK] Seq=1 A
19	55.107726	192.168.43.197	104.211.8.250	TLSv1.2	85	Encrypted Alert
20	55.108355	192.168.43.197	104.211.8.250	TCP	54	57634 → 443 [FIN, ACK] Seq=
21	55.413057	104.211.8.250	192.168.43.197	TCP	54	443 → 57634 [RST] Seq=33
22	55.413057	104.211.8.250	192.168.43.197	TCP	54	443 → 57634 [RST] Seq=33

Frame 5: 74 bytes on wire (592 bits), 74 bytes captured (592 bits) on interface \Device\NPF_{75504310-...}

Ethernet II, Src: Intel_a2:c5:38 (dc:45:46:a2:c5:38), Dst: 26:9a:a8:83:e1:13 (26:9a:a8:83:e1:13)

Internet Protocol Version 6, Src: 2409:408d:298:8f3b:dc1a:330d:3af9:135b, Dst: 2603:1040:a06:6::2

0110 = Version: 6

.... 0000 0000 = Traffic Class: 0x00 (DSCP: CS0, ECN: Not-ECT)

.... 0000 0011 1000 0101 1101 = Flow Label: 0x0385d

Payload Length: 20

Next Header: TCP (6)

Hop Limit: 65

Source Address: 2409:408d:298:8f3b:dc1a:330d:3af9:135b

Destination Address: 2603:1040:a06:6::2

[Stream index: 0]

Transmission Control Protocol, Src Port: 49450, Dst Port: 443, Seq: 102, Ack: 172, Len: 0

Wireshark - Packet 5 - Wi-Fi

Frame 5: 74 bytes on wire (592 bits), 74 bytes captured (592 bits) on interface \Device\NPF_{75504310-...}

Ethernet II, Src: Intel_a2:c5:38 (dc:45:46:a2:c5:38), Dst: 26:9a:a8:83:e1:13 (26:9a:a8:83:e1:13)

Internet Protocol Version 6, Src: 2409:408d:298:8f3b:dc1a:330d:3af9:135b, Dst: 2603:1040:a06:6::2

0110 = Version: 6

.... 0000 0000 = Traffic Class: 0x00 (DSCP: CS0, ECN: Not-ECT)

.... 0000 0011 1000 0101 1101 = Flow Label: 0x0385d

Payload Length: 20

Next Header: TCP (6)

Hop Limit: 65

Source Address: 2409:408d:298:8f3b:dc1a:330d:3af9:135b

Destination Address: 2603:1040:a06:6::2

[Stream index: 0]

Transmission Control Protocol, Src Port: 49450, Dst Port: 443, Seq: 102, Ack: 172, Len: 0

Show packet bytes Layout: Vertical (Stacked)

Close Help

Transmission Control Protocol: Protocol

Packets: 336 · Displayed: 240 (71.4%) · Dropped: 0 (0.0%) Profile: Default

95°F Partly sunny

Search

1:55 PM 4/4/2025

Wi-Fi

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

arp

No.	Time	Source	Destination	Protocol	Length	Info
28	71.988060	192.168.43.197	192.168.43.1	DNS	89	Standard query 0x9925 A connectivitycheck.gstatic.com
29	71.991055	192.168.43.197	192.168.43.1	DNS	89	Standard query 0x7e4a AAAA connectivitycheck.gstatic.com
30	72.037919	192.168.43.1	192.168.43.197	DNS	105	Standard query response 0x9925 A connectivitycheck.gstatic.com
31	72.045168	192.168.43.1	192.168.43.197	DNS	117	Standard query response 0x7e4a AAAA connectivitycheck.gstatic.com
38	72.133908	192.168.43.197	192.168.43.1	DNS	76	Standard query 0xa2d9 A www.google.com
39	72.135746	192.168.43.197	192.168.43.1	DNS	76	Standard query 0x2cef AAAA www.google.com
41	72.176890	192.168.43.1	192.168.43.197	DNS	166	Standard query response 0xa2d9 A www.google.com
42	72.185685	192.168.43.1	192.168.43.197	DNS	178	Standard query response 0x2cef AAAA www.google.com
76	72.654476	192.168.43.197	192.168.43.1	DNS	79	Standard query 0xb76 A csi.gstatic.com
77	72.655705	192.168.43.197	192.168.43.1	DNS	79	Standard query 0x64f2 AAAA csi.gstatic.com
79	72.696281	192.168.43.1	192.168.43.197	DNS	119	Standard query response 0xb76 A csi.gstatic.com
80	72.704993	192.168.43.1	192.168.43.197	DNS	131	Standard query response 0x64f2 AAAA csi.gstatic.com
125	73.393624	192.168.43.197	192.168.43.1	DNS	73	Standard query 0x53b4 A us-central1-accounts.google.com
126	73.395314	192.168.43.197	192.168.43.1	DNS	73	Standard query 0x4cc0 AAAA us-central1-accounts.google.com
128	73.440456	192.168.43.1	192.168.43.197	DNS	165	Standard query response 0x53b4 A us-central1-accounts.google.com
129	73.450899	192.168.43.1	192.168.43.197	DNS	205	Standard query response 0x4cc0 AAAA us-central1-accounts.google.com
174	74.044829	192.168.43.197	192.168.43.1	DNS	76	Standard query 0xb32e A www.gstatic.com
177	74.095048	192.168.43.1	192.168.43.197	DNS	121	Standard query response 0xb32e A www.gstatic.com
178	74.107068	192.168.43.197	192.168.43.1	DNS	78	Standard query 0xf39c A csi.gstatic.com
179	74.107769	192.168.43.197	192.168.43.1	DNS	78	Standard query 0x106a AAAA csi.gstatic.com

Frame 29: 89 bytes on wire (712 bits), 89 bytes captured (712 bits) on interface \Device\NPF_{75504310-...}

Ethernet II, Src: Intel_a2:c5:38 (dc:45:46:a2:c5:38), Dst: 26:9a:a8:83:e1:13 (26:9a:a8:83:e1:13)

Internet Protocol Version 4, Src: 192.168.43.197, Dst: 192.168.43.1

User Datagram Protocol, Src Port: 51485, Dst Port: 53

Domain Name System (query)

Wireshark - Packet 29 - Wi-Fi

Frame 29: 89 bytes on wire (712 bits), 89 bytes captured (712 bits) on interface \Device\NPF_{75504310-...}

Ethernet II, Src: Intel_a2:c5:38 (dc:45:46:a2:c5:38), Dst: 26:9a:a8:83:e1:13 (26:9a:a8:83:e1:13)

Internet Protocol Version 4, Src: 192.168.43.197, Dst: 192.168.43.1

0100 = Version: 4

.... 0101 = Header Length: 20 bytes (5)

Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)

Total length: 75

Identification: 0x0012 (18)

0000 = Flags: 0x0

...0 0000 0000 0000 = Fragment Offset: 0

Time to Live: 128

0000 26 9a a8 83 e1 13 dc 45 46 a2 c5 38 08 00 45 00 &.....E F 8 E

0010 00 4b 00 12 00 00 00 11 00 00 c0 a8 2b c5 c0 a8 K.....+...

0020 2b 01 c9 1d 00 35 00 37 d8 5f 7e 4a 01 00 00 01 +....5 7 ..21...

0030 00 00 00 00 00 00 11 63 6f 6e 6e 65 63 74 69 75c onnectiv

0040 69 74 79 63 68 65 63 6b 07 67 73 74 61 74 69 63 itycheck _gstatic

0050 03 63 6f 6d 00 00 1c 00 01om....

No.: 29 - Time: 71.991055 - Source: 192.168.43.197 - Destination: 1..89 - Info: Standard query 0x7e4a AAAA connectivitycheck.gstatic.com

☒ Show packet bytes Layout: Vertical (Stacked)

Close Help

Address Resolution Protocol: Protocol

Packets: 336 - Displayed: 49 (14.6%) - Dropped: 0 (0.0%) Profile: Default

95°F Partly sunny

Search

1:59 PM 4/4/2025

Wireshark interface showing a packet capture on the 'ipvs6' interface. The packet list on the left shows various protocols including ICMPv6, TLSv1.2, and TCP. Packet 7 is selected, showing details for Ethernet II, Internet Protocol Version 6, and Transport Layer Security (TLS). The packet bytes pane on the right displays the raw data in hexadecimal and ASCII.

Wireshark - Packet 7 - Wi-Fi

Frame 7: 1039 bytes on wire (8312 bits), 1039 bytes captured (8312 bits) on interface \\Device\\NPF_{755...}

Ethernet II, Src: Intel_a2:c5:38 (dc:45:46:a2:c5:38), Dst: 26:9a:a8:83:e1:13 (26:9a:a8:83:e1:13)

Internet Protocol Version 6, Src: 2409:408d:298:8f3b:dc1a:330d:3af9:135b, Dst: 64:ff9b::34e0:6ca9

2 Reassembled TCP Segments (2335 bytes): #4(1370), #7(965)]

Transport Layer Security

Frame (1039 bytes) Reassembled TCP (2335 bytes)

Bytes 22-37: Source Address (IPv6)

Show packet bytes Layout: Vertical (Stacked)

Close Help

0120 8b 41 d2 4d 9b c5 b8 51 36 2e 5e 6c 5a 53 a8 00 A H - Q 6(*125

0130 93 a8 bd 1e 89 05 89 07 15 97 49 94 6e 0f 18 a2 I n s

0140 c5 40 4b f5 3e f5 e0 8b 71 ef b4 2d 09 48 78 70 @K >... q... Hxp

Packets: 90 - Dropped: 0 (0.0%) Profile: Default

95°F Partly sunny 2:04 PM 4/4/2025