Lab-2

Adora
PAGE NO.
DATE 16/6/23

1) Create a topology and simulate sending a simple PDU from source to destination using simple hub and switch as connecting ~~device~~ domains

=)

Step 1: Drag and drop three PC's at one side and connect them to the a generic hub.

Step 2: Drag and drop another three PC's and connect them to a generic switch

Step 3: Use copper straight cable to connect each PC with the switch / hub.

Step 4: Create a unique IP address starting with 10:0:0:1 → 10:0:0:6 ~~on~~ for PC0 → PC05

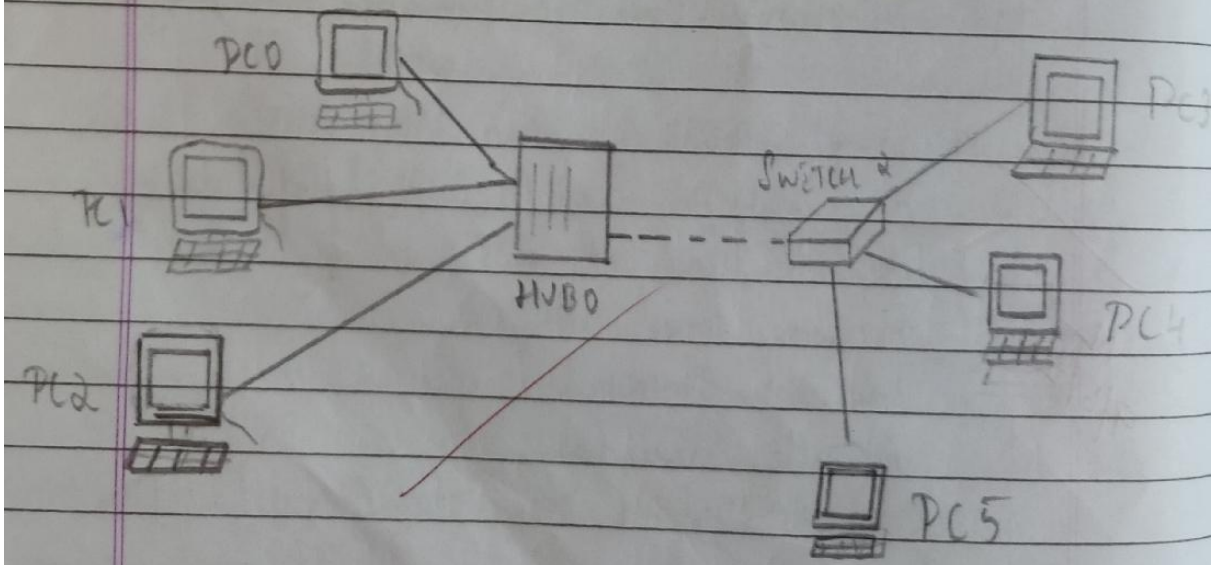
Step 5: Add a simple PDU from PC0 to PC1 which are within the hub. ~~Check for~~

Step 6: Create a new scenario and click on the auto/capture and check for the output as "Successful"

Step 7: Next scenario, send a simple PDU from PC4 to PC6 and check the output.

Step 8: Last scenario consist of a PDU from PC0 to PC4

Step 9: Click on and from PC0 and type ping 10.0.0.4 and the sum command takes place.



Command Prompt

i) Switch ON

PC> ping 10.0.0.4

Pinging 10.0.0.4 with 32 bytes of data:

Reply from 10.0.0.4: bytes = 32 time = 1ms TTL = 128
Reply from 10.0.0.4: bytes = 32 time = 6ms TTL = 128
Reply from 10.0.0.4: bytes = 32 time = 6ms TTL = 128
Reply from 10.0.0.4: bytes = 32 time = 6ms TTL = 128

Ping statistics for 10.0.0.4
Packets: sent = 4, received = 4, lost = 0 (0% loss),
Approx round trip times in milli-secs:
Minimum = 6ms, Maximum = 1ms, Average = 6

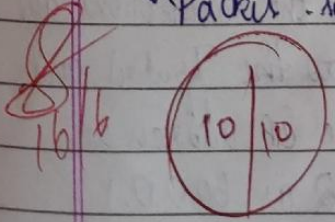
ii) Switch OFF

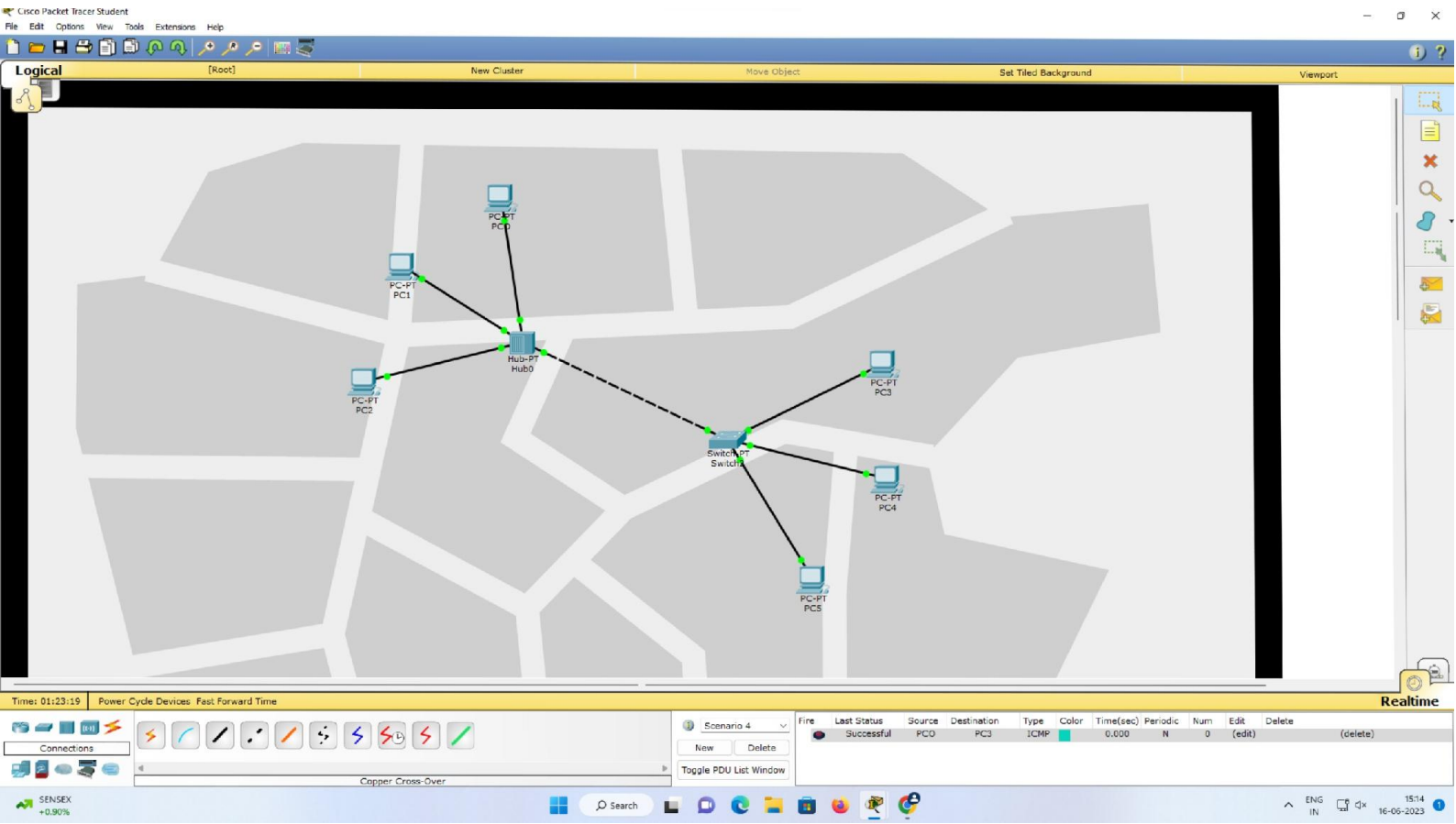
PC> ping 10.0.0.4

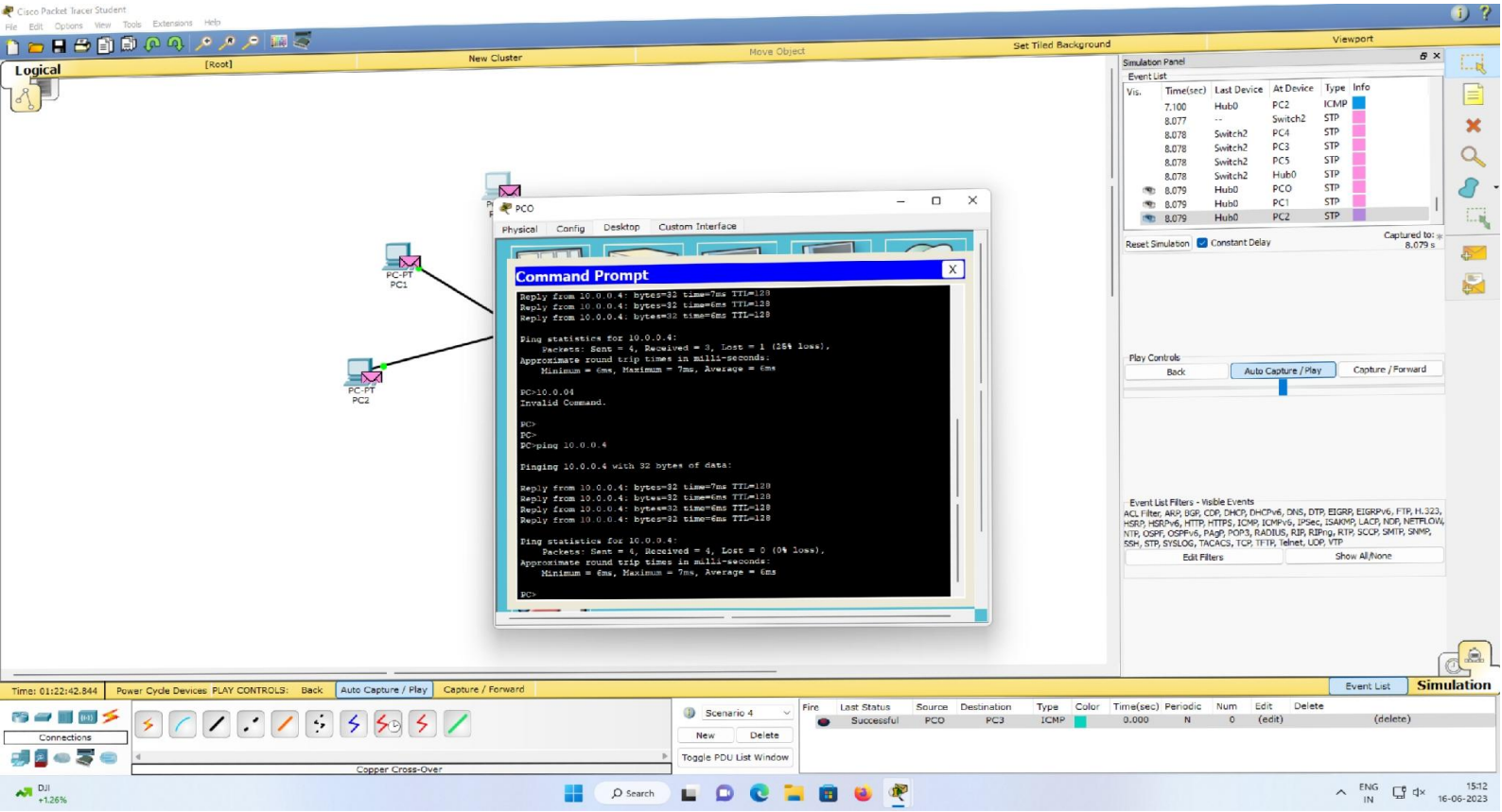
Pinging 10.0.0.4 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 10.0.0.4
Packet: sent = 4, received = 0, lost = 4, loss (100%).




Cisco Packet Tracer Student
File Edit Options View Tools Extensions Help
Logical
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
PC-PT PC0
PC-PT PC1
PC-PT PC2
Hub-PT Hub0
PC-PT PC3
Switch-PT Switch1
PC-PT PC4
PC-PT PC5
Time: 01:23:19
Power Cycle Devices Fast Forward Time
Realtime
Connections
Copper Cross-Over
Scenario 4
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)
SENSEX +0.90%
Search
ENG IN
15:14 16-06-2023


Cisco Packet Tracer Student
Logical
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
PC-PT PC1
PC-PT PC2
PC0
Physical
Config
Desktop
Custom Interface
Command Prompt
Reply from 10.0.0.4: bytes=32 time=7ms TTL=128
Reply from 10.0.0.4: bytes=32 time=6ms TTL=128
Reply from 10.0.0.4: bytes=32 time=6ms TTL=128
Ping statistics for 10.0.0.4:
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
Minimum = 6ms, Maximum = 7ms, Average = 6ms
PC>10.0.0.04
Invalid Command.
PC>
PC>
PC>ping 10.0.0.4
Pinging 10.0.0.4 with 32 bytes of data:
Reply from 10.0.0.4: bytes=32 time=7ms TTL=128
Reply from 10.0.0.4: bytes=32 time=6ms TTL=128
Reply from 10.0.0.4: bytes=32 time=6ms TTL=128
Reply from 10.0.0.4: bytes=32 time=6ms TTL=128
Ping statistics for 10.0.0.4:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 6ms, Maximum = 7ms, Average = 6ms
PC>
Simulation Panel
Event List
Vis. Time(sec) Last Device At Device Type Info
7.100 Hub0 PC2 ICMP
8.077 -- Switch2 STP
8.078 Switch2 PC4 STP
8.078 Switch2 PC3 STP
8.078 Switch2 PC5 STP
8.078 Switch2 Hub0 STP
8.079 Hub0 PC0 STP
8.079 Hub0 PC1 STP
8.079 Hub0 PC2 STP
Reset Simulation
Constant Delay
Captured to: 8.079 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, TCP, TFTP, Telnet, UDP, VTP
Edit Filters
Show All/None
Time: 01:22:42.844
Power Cycle Devices
PLAY CONTROLS:
Back
Auto Capture / Play
Capture / Forward
Event List
Simulation
Connections
Copper Cross-Over
Scenario 4
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)
Search
ENG IN
15:12 16-06-2023