Name - Lalit Mohan Kalpasi
Sec - 'C'
ID - 20711147

Date:
Page No.

Question. 1

Problem statement.

There is an organisation A with multiple department. Design a network for the HR department and the size of the department is 10 users. also show the communication b/w user number 1 and user number 5 of the network.

Steps to perform.

1- We will place Organization A, HR Department and user 1 to user 10

2. Add router and switch and connect them with cable.

3- Add 10 machines named PC0 to PC9 and connect all machine to switch

4. Assign IP address to every machine

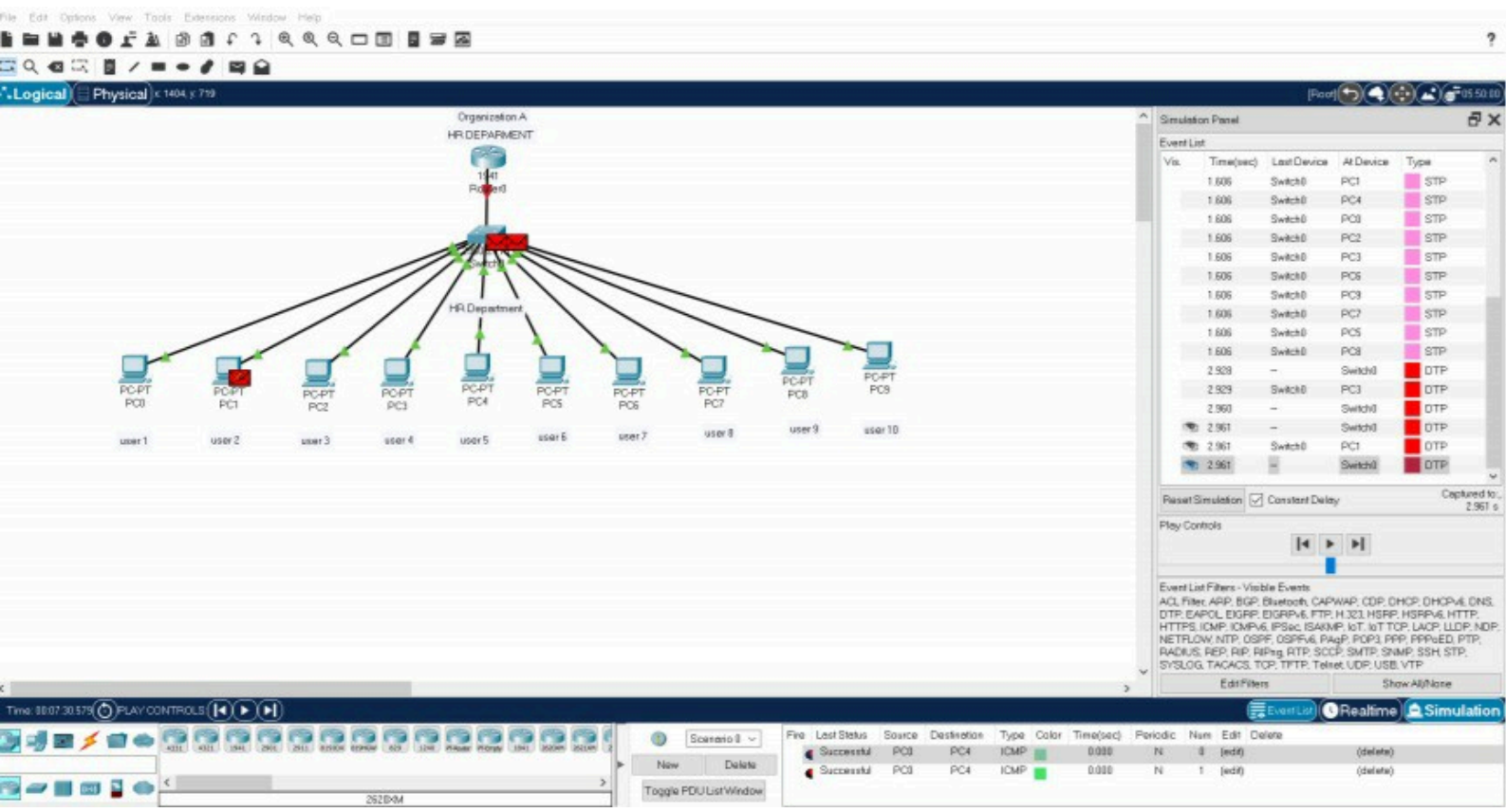
(5) we had assigned IP as follows.

PC0 - 192.168.1.1

PC4. 192.168.1.5

(6) Now there are 2 ways to verify the connection b/w 2 users.

(7) We can see the connection is successfull and we are able to communicate b/w user 1 and user 5 of HR Department


Organization A
HR DEPARMENT
1941
Router0
Switch0
HR Department
PC-PT PC0
PC-PT PC1
PC-PT PC2
PC-PT PC3
PC-PT PC4
PC-PT PC5
PC-PT PC6
PC-PT PC7
PC-PT PC8
PC-PT PC9
user 1
user 2
user 3
user 4
user 5
user 6
user 7
user 8
user 9
user 10
Simulation Panel
Event List
Vis. Time(sec) Last Device At Device Type
1.606 Switch0 PC1 STP
1.606 Switch0 PC4 STP
1.606 Switch0 PC0 STP
1.606 Switch0 PC2 STP
1.606 Switch0 PC3 STP
1.606 Switch0 PC6 STP
1.606 Switch0 PC9 STP
1.606 Switch0 PC7 STP
1.606 Switch0 PC5 STP
1.606 Switch0 PC8 STP
2.929 -- Switch0 DTP
2.929 Switch0 PC3 DTP
2.960 -- Switch0 DTP
2.961 -- Switch0 DTP
2.961 Switch0 PC1 DTP
2.961 -- Switch0 DTP
Reset Simulation
Constant Delay
Captured to: 2.961 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, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoED, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP
Edit Filters
Show All/None
Time: 00:07:30.579
PLAY CONTROLS
Event List
Realtime
Simulation
Scenario 0
New
Delete
Toggle PDU List Window
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete
Successful PC0 PC4 ICMP 0.000 N 0 (edit) (delete)
Successful PC0 PC4 ICMP 0.000 N 1 (edit) (delete)
2620XM

Date:
Page No.

Question 2.

Problem statement There are two organization in a city named GEU and GEHU, design a network b/w the SOC department of GEU and GEHU also show the communications b/w user number 1 of GEU and user number 2 of GEHU.

~~Steps to perform.~~

Objective Description we will create a virtual LAN environment in cisco packet tracer that will connect 2 user of different department and connection will be established.

Step to perform.

(a) we will place notes first

(b) we will place 2 router and 2 switches

(c) Connect both routers with serial DTE wire.

(d) Add 2 system or 2 users in each organization named user no 1 and User no 2.

(e) we assign IP address to 2 system.

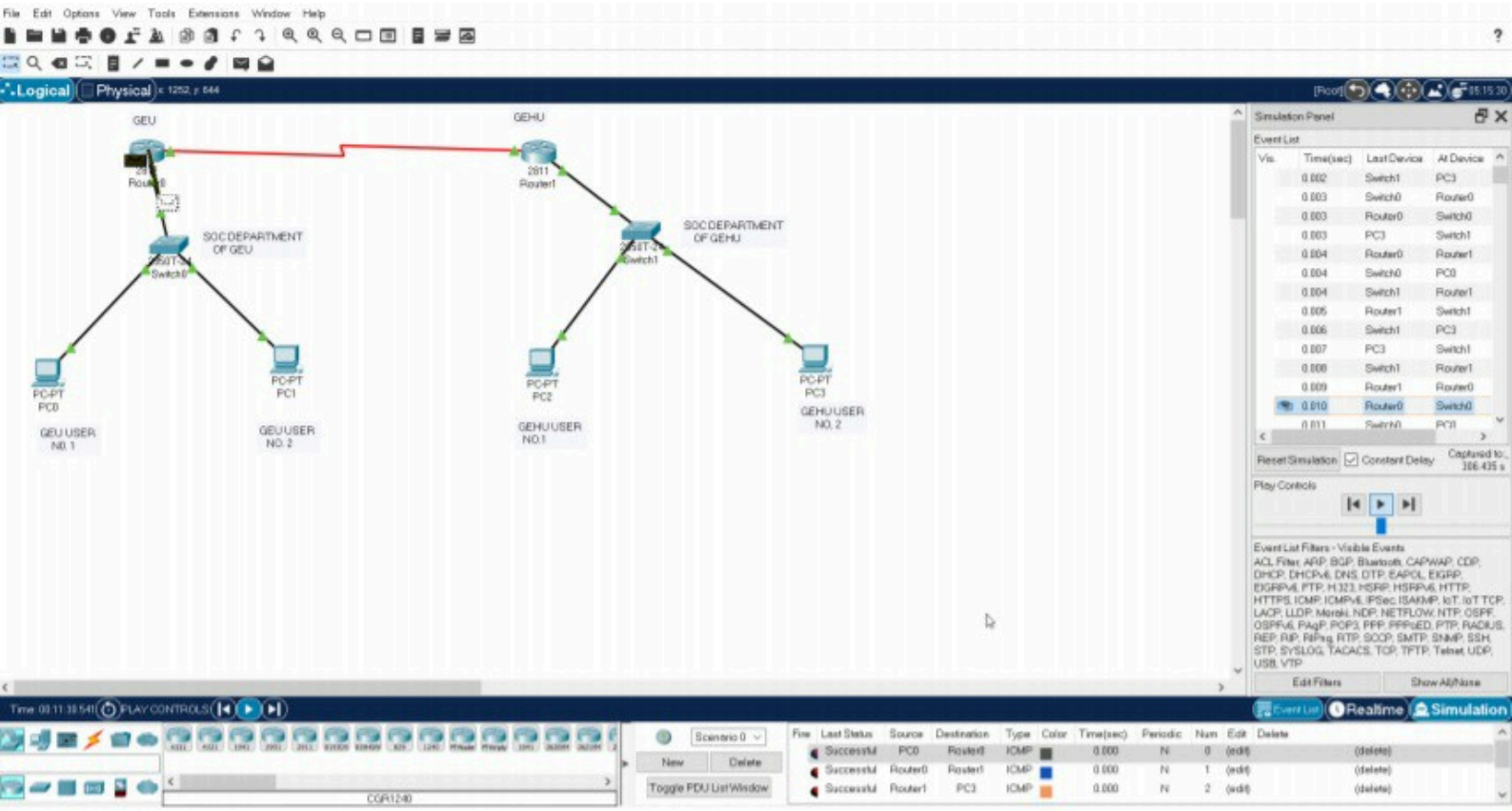
(f) No again there 2 ways to verify b/w 2 user.

① Pinging other user IP

② sending PDU Packet from user 1 to user 2.

(d) We can see now user 1 & user 2 connected. We are able to communicate b/w them via various methods

Sakshi


File Edit Options View Tools Extensions Window Help
Logical
Physical
GEU
GEHU
2811
Router0
2811
Router1
SOC DEPARTMENT OF GEU
SOC DEPARTMENT OF GEHU
2960T-24
Switch0
2960T-24
Switch1
PC-PT PC0
PC-PT PC1
PC-PT PC2
PC-PT PC3
GEU USER NO. 1
GEU USER NO. 2
GEHU USER NO.1
GEHU USER NO. 2
Simulation Panel
Event List
Vis. Time(sec) Last Device At Device
0.002 Switch1 PC3
0.003 Switch0 Router0
0.003 Router0 Switch0
0.003 PC3 Switch1
0.004 Router0 Router1
0.004 Switch0 PC0
0.004 Switch1 Router1
0.005 Router1 Switch1
0.006 Switch1 PC3
0.007 PC3 Switch1
0.008 Switch1 Router1
0.009 Router1 Router0
0.010 Router0 Switch0
Reset Simulation
Constant Delay
Captured to: 386.435 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, PPPoED, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP
Edit Filters
Show All/None
Time: 00:11:38.541
PLAY CONTROLS
Realtime
Simulation
Scenario 0
New
Delete
Toggle PDU List Window
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete
Successful PC0 Router0 ICMP 0.000 N 0 (edit) (delete)
Successful Router0 Router1 ICMP 0.000 N 1 (edit) (delete)
Successful Router1 PC3 ICMP 0.000 N 2 (edit) (delete)
CGR1240