



National University
of computer and emerging sciences

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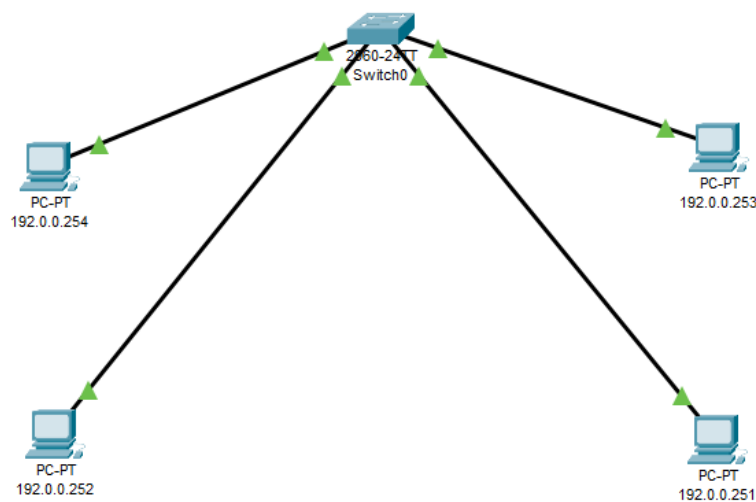
Computer Networks Lab

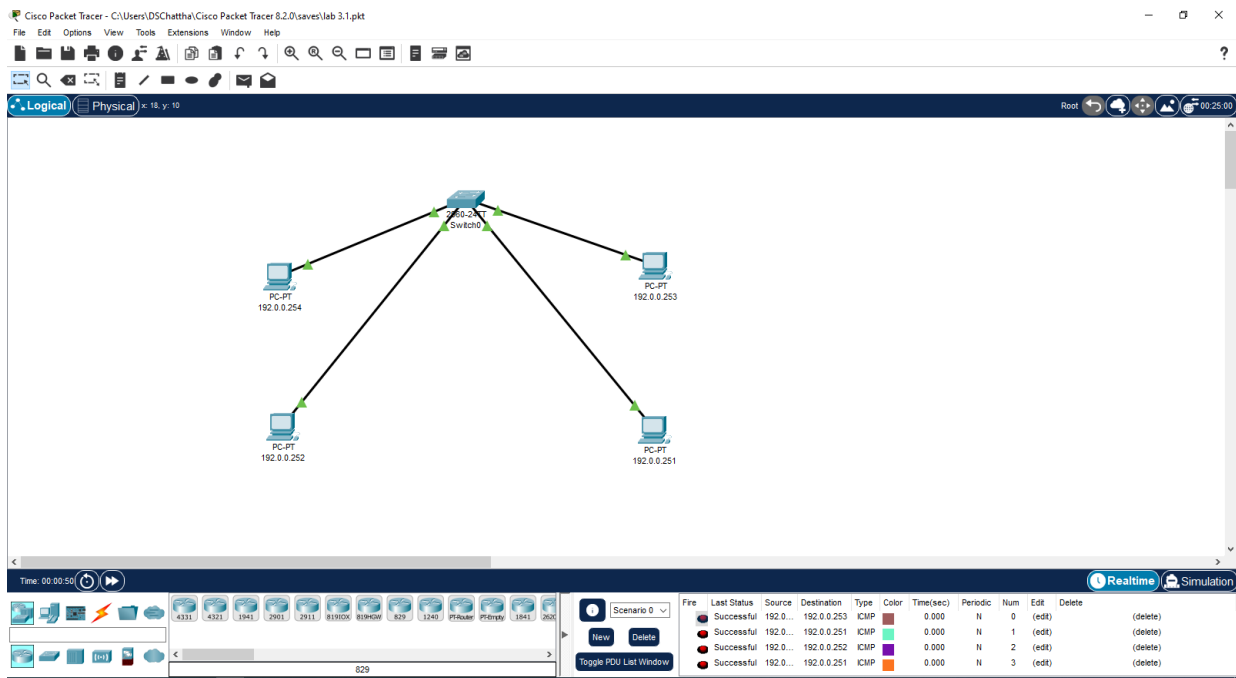
Task #01

1-In this task I'm using switch connected with 4 PC's .

2-IP address of class C is being used .

Following screenshot of event list is showing how message is being transferred between devices.





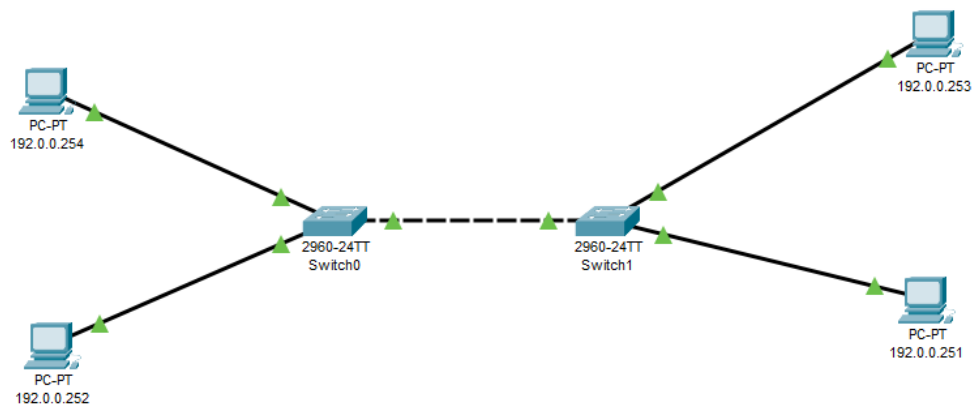
The screenshot shows the Cisco Packet Tracer interface. At the top, the title bar indicates the file path: C:\Users\DSChattha\Cisco Packet Tracer 8.2.0\saves\lab 3.1.pkt. The menu bar includes File, Edit, Options, View, Tools, Extensions, Window, and Help. Below the menu is a toolbar with various icons for network configuration. The main workspace displays a network diagram in Logical view. A central switch labeled 'Switch0' is connected to four PC-PT devices. The PC-PT devices have the following IP addresses: 192.0.0.254, 192.0.0.253, 192.0.0.252, and 192.0.0.251. The bottom status bar shows the time as 00:01:14 and includes buttons for Realtime and Simulation. A table of network events is visible at the bottom right.

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
●	Successful	192.0...	192.0.0.253	ICMP		0.000	N	0	(edit)	(delete)
●	Successful	192.0...	192.0.0.251	ICMP		0.000	N	1	(edit)	(delete)
●	Successful	192.0...	192.0.0.252	ICMP		0.000	N	2	(edit)	(delete)
●	Successful	192.0...	192.0.0.251	ICMP		0.000	N	3	(edit)	(delete)

Task #02

Here I used switches and IP address of class C.

Below screenshot showing how message is transferred between devices.



Cisco Packet Tracer - C:\Users\DSChattha\Cisco Packet Tracer 8.2.0\saves\lab 3.2.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical x: 100, y: 292

Root 00:24:30

Time: 00:00:49

Scenario 0

New Delete

Toggle PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
●	Successful	192.0...	192.0.0.251	ICMP	Blue	0.000	N	0	(edit)	(delete)
●	Successful	192.0...	192.0.0.252	ICMP	Green	0.000	N	1	(edit)	(delete)
●	Successful	192.0...	192.0.0.252	ICMP	Red	0.000	N	2	(edit)	(delete)
●	Successful	192.0...	192.0.0.253	ICMP	Purple	0.000	N	3	(edit)	(delete)

Time: 00:01:27

Scenario 0

New Delete

Toggle PDU List Window

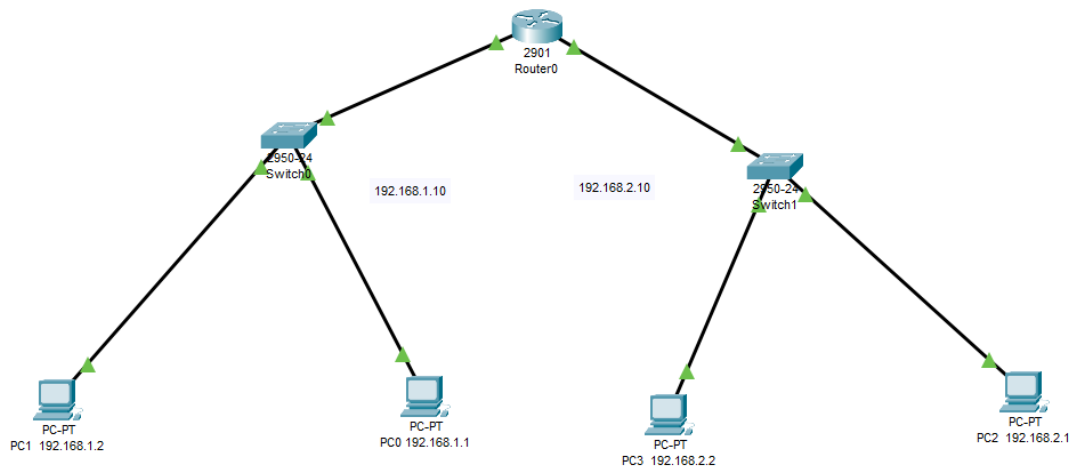
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
●	Successful	192.0...	192.0.0.251	ICMP	Blue	0.000	N	0	(edit)	(delete)
●	Successful	192.0...	192.0.0.252	ICMP	Green	0.000	N	1	(edit)	(delete)
●	Successful	192.0...	192.0.0.252	ICMP	Red	0.000	N	2	(edit)	(delete)
●	Successful	192.0...	192.0.0.253	ICMP	Purple	0.000	N	3	(edit)	(delete)

Task#03

Using 1 router and 2 switches

Using IP address of C class

Following screenshots are showing transmission of message through different devices.



Cisco Packet Tracer - C:\Users\DSChattha\Cisco Packet Tracer 8.2.0\saves\ROUTER.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical 221, y: 503

Time: 00:04:54

Scenario 0

File	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
Successful	PC1 ...	PC0 192.1...	ICMP	0.000	N	0	(edit)	(delete)		
Successful	PC2 ...	PC3 192.1...	ICMP	0.000	N	1	(edit)	(delete)		
Successful	PC0 1...	PC1 192.1...	ICMP	0.000	N	2	(edit)	(delete)		
Successful	PC2 ...	PC3 192.1...	ICMP	0.000	N	3	(edit)	(delete)		

Toggle PDU List Window

ISR4331

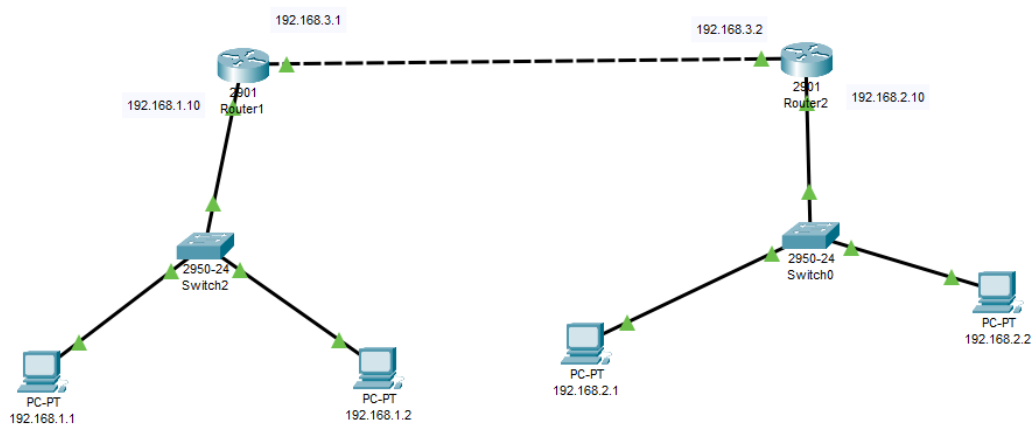


Task#04

In this local area network we used 2 routers and 2 switches connecting different PC's

Also in the following network IP of class C is used.

Default gateway of routers also set according to switches connecting with them



Cisco Packet Tracer - C:\Users\DSChattha\Cisco Packet Tracer 8.2.0\saves\Two routers.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical x: 416, y: 18

Time: 00:05:31

Scenario 0

New Delete

Toggle PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
●	Successful	192.1...	192.168.1.2	ICMP	Green	0.000	N	0	(edit)	(delete)
●	Successful	192.1...	192.168.2.1	ICMP	Red	0.000	N	1	(edit)	(delete)
●	Successful	192.1...	192.168.1.1	ICMP	Magenta	0.000	N	2	(edit)	(delete)
●	Successful	192.1...	192.168.2.2	ICMP	Cyan	0.000	N	3	(edit)	(delete)

Time: 00:06:13

Scenario 0

New Delete

Toggle PDU List Window

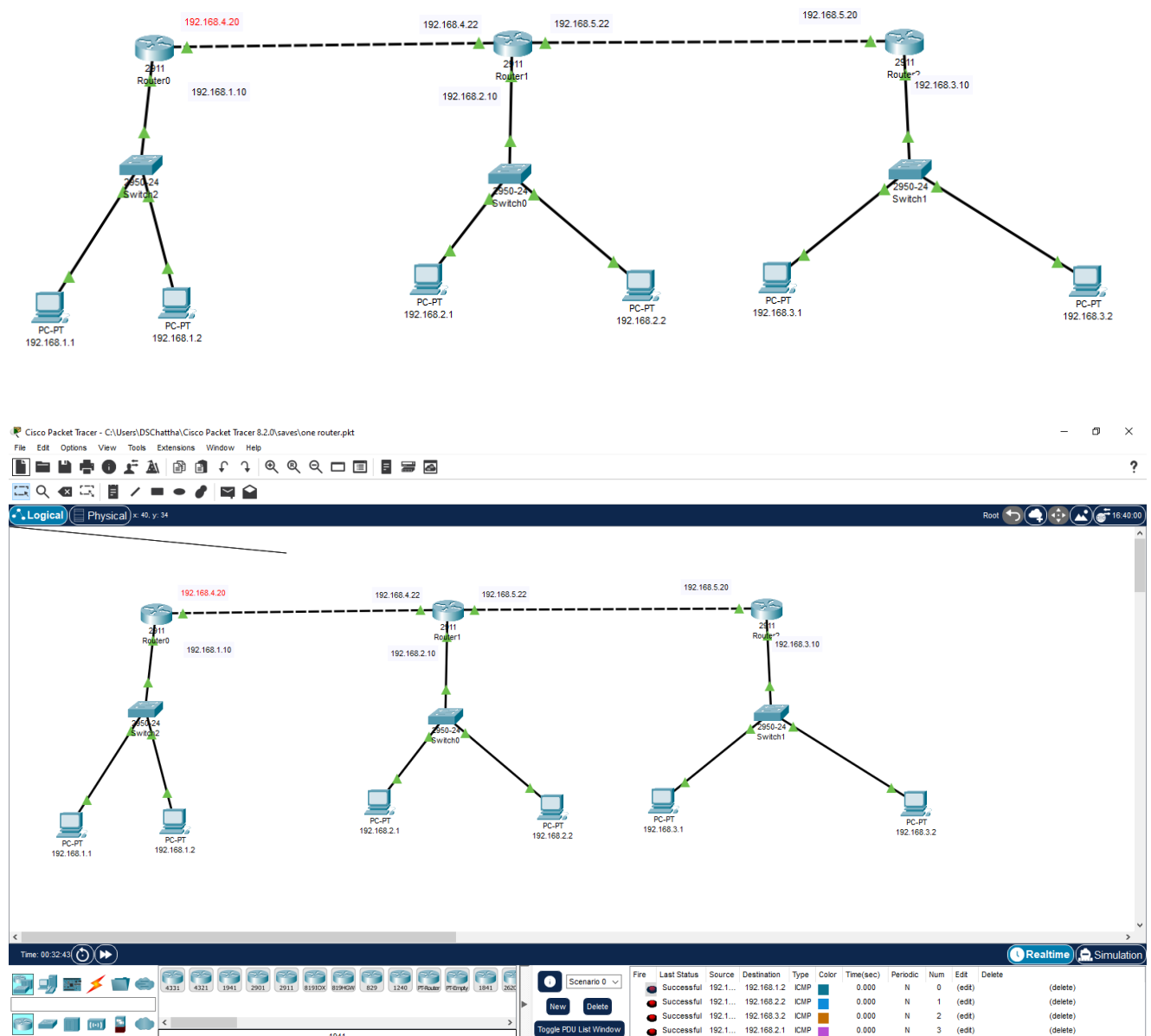
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
●	Successful	192.1...	192.168.1.2	ICMP	Green	0.000	N	0	(edit)	(delete)
●	Successful	192.1...	192.168.2.1	ICMP	Red	0.000	N	1	(edit)	(delete)
●	Successful	192.1...	192.168.1.1	ICMP	Magenta	0.000	N	2	(edit)	(delete)
●	Successful	192.1...	192.168.2.2	ICMP	Cyan	0.000	N	3	(edit)	(delete)

Task#05

In this local area network we used 3 routers and 3 switches connecting different PC's

Also in the following network IP of class C is used.

Default gateway of routers also set according to switches connecting with them.



Time: 00:33:15

Realtime

Simulation

4331 4321 1941 2901 2911 81910K 81916K 629 1240 P2Huaier P2Huaier 1841 2031

1941

Scenario 0

New Delete

Toggle PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	192.1...	192.168.1.2	ICMP		0.000	N	0	(edit)	(delete)
	Successful	192.1...	192.168.2.2	ICMP		0.000	N	1	(edit)	(delete)
	Successful	192.1...	192.168.3.2	ICMP		0.000	N	2	(edit)	(delete)
	Successful	192.1...	192.168.2.1	ICMP		0.000	N	3	(edit)	(delete)