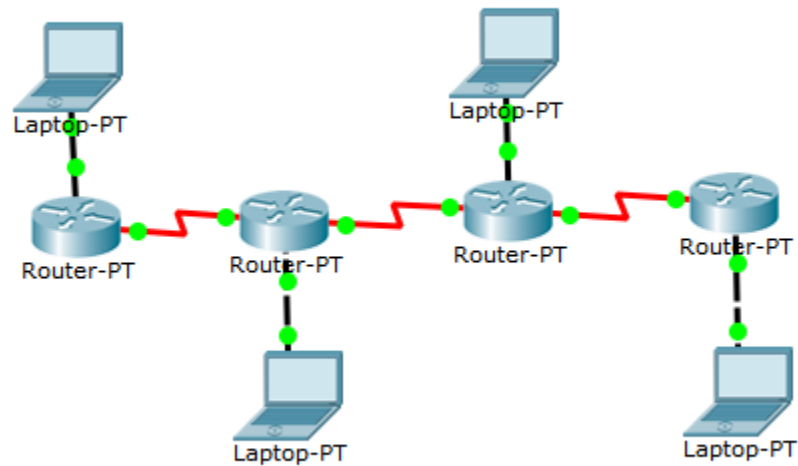


QUESTION 01

TOPOLOGY



CONFIGURATION

ROUTER 01

IP Configuration

IP Address	10.86.0.1
Subnet Mask	255.255.255.192

IP Configuration

IP Address	10.86.0.177
Subnet Mask	255.255.255.252

ROUTER 02

IP Configuration

IP Address	10.86.0.65
Subnet Mask	255.255.255.192

IP Configuration

IP Address	10.86.0.178
Subnet Mask	255.255.255.252

ROUTER 03

IP Configuration	
IP Address	10.86.0.129
Subnet Mask	255.255.255.224

IP Configuration	
IP Address	10.86.0.181
Subnet Mask	255.255.255.252

ROUTER 04

IP Configuration	
IP Address	10.86.0.161
Subnet Mask	255.255.255.240

IP Configuration	
IP Address	10.86.0.182
Subnet Mask	255.255.255.252

PC CONFIGURATION

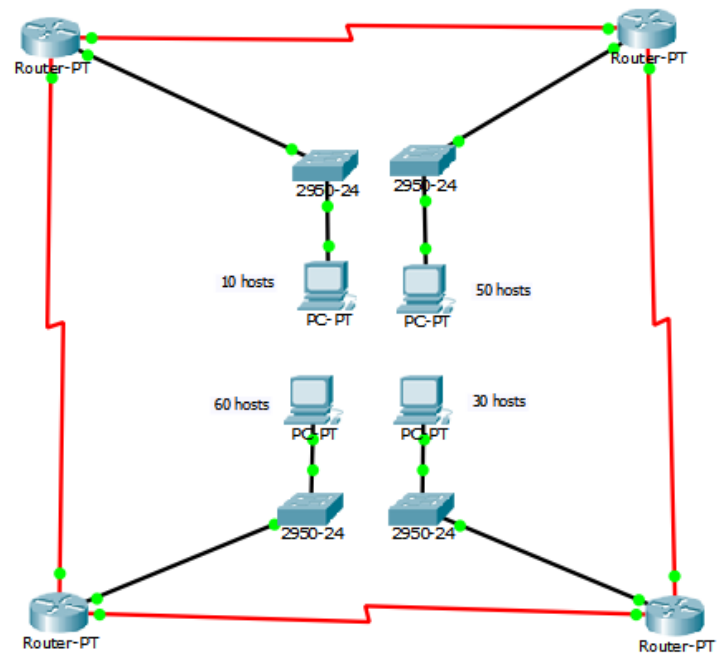
IP Configuration	
<input type="radio"/> DHCP	
<input checked="" type="radio"/> Static	
IP Address	10.86.0.2
Subnet Mask	255.255.255.192

IP Configuration	
<input type="radio"/> DHCP	
<input checked="" type="radio"/> Static	
IP Address	10.86.0.162
Subnet Mask	255.255.255.240

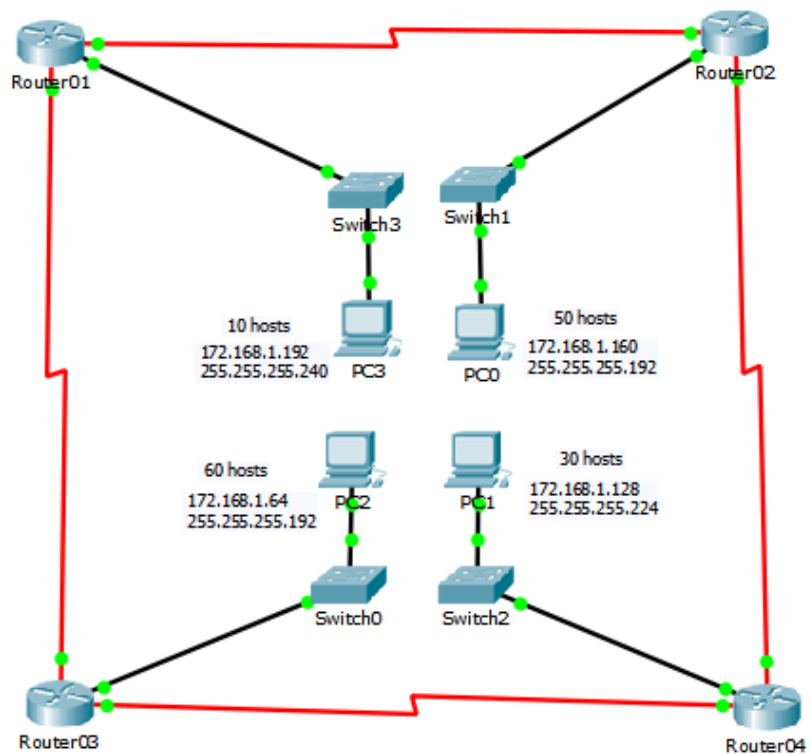
IP Configuration	
<input type="radio"/> DHCP	
<input checked="" type="radio"/> Static	
IP Address	10.86.0.130
Subnet Mask	255.255.255.224

QUESTION NO 02

TOPOLOGY



REQUIREMENTS



CONFIGURATION

ROUTER 01 (FASTETHERNET AND SERIAL)

IP Configuration	
IP Address	172.168.1.193
Subnet Mask	255.255.255.240

IP Configuration	
IP Address	172.168.1.13
Subnet Mask	255.255.255.252

IP Configuration	
IP Address	172.168.1.9
Subnet Mask	255.255.255.252

ROUTER 02 (FASTETHERNET AND SERIAL)

IP Configuration	
IP Address	172.168.1.161
Subnet Mask	255.255.255.192

IP Configuration	
IP Address	172.168.1.6
Subnet Mask	255.255.255.252

IP Configuration	
IP Address	172.168.1.10
Subnet Mask	255.255.255.252

ROUTER 03 (FASTETHERNET AND SERIAL)

IP Configuration	
IP Address	172.168.1.65
Subnet Mask	255.255.255.192

IP Configuration	
IP Address	172.168.1.14
Subnet Mask	255.255.255.252

IP Configuration	
IP Address	172.168.1.1
Subnet Mask	255.255.255.252

ROUTER 04 (FASTETHERNET AND SERIAL)

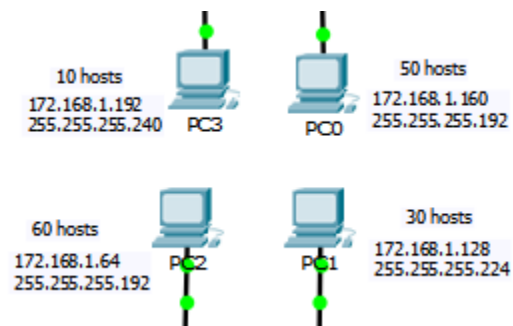
IP Configuration	
IP Address	172.168.1.129
Subnet Mask	255.255.255.224

IP Configuration	
IP Address	172.168.1.129
Subnet Mask	255.255.255.224

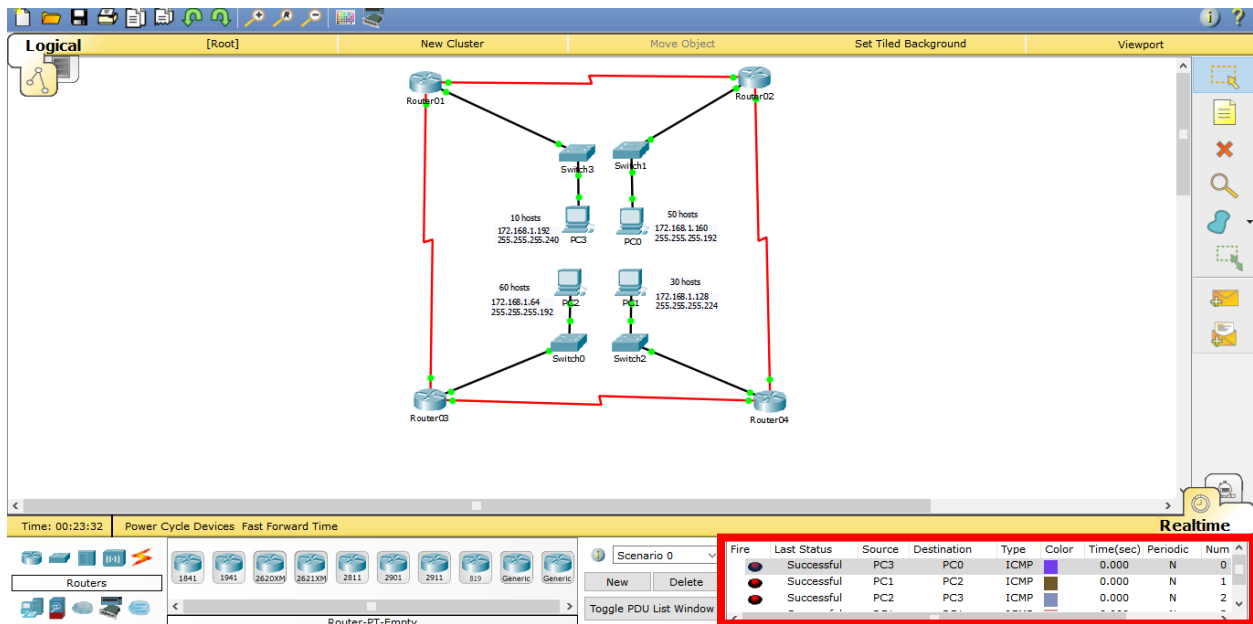
IP Configuration	
IP Address	172.168.1.5
Subnet Mask	255.255.255.252

IP Configuration	
IP Address	172.168.1.2
Subnet Mask	255.255.255.252

PC CONFIGURATION

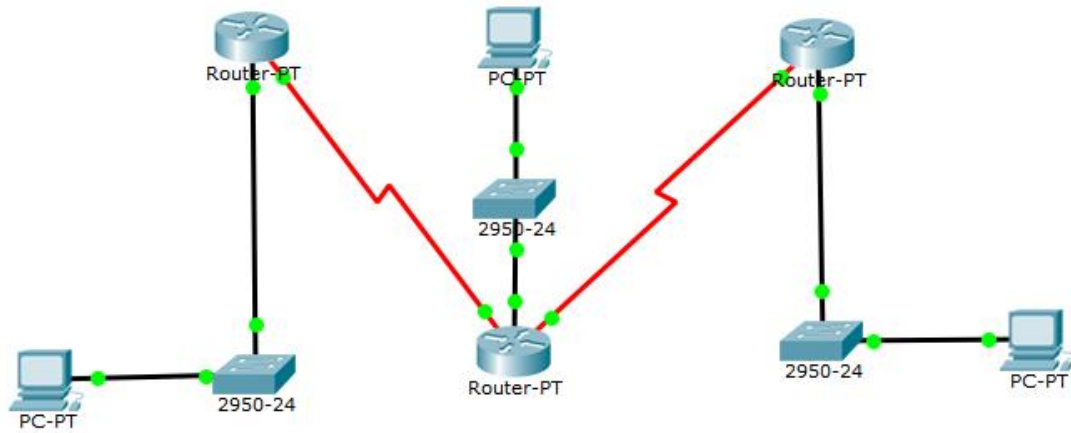


CONFIGURATION SUCCESSFUL

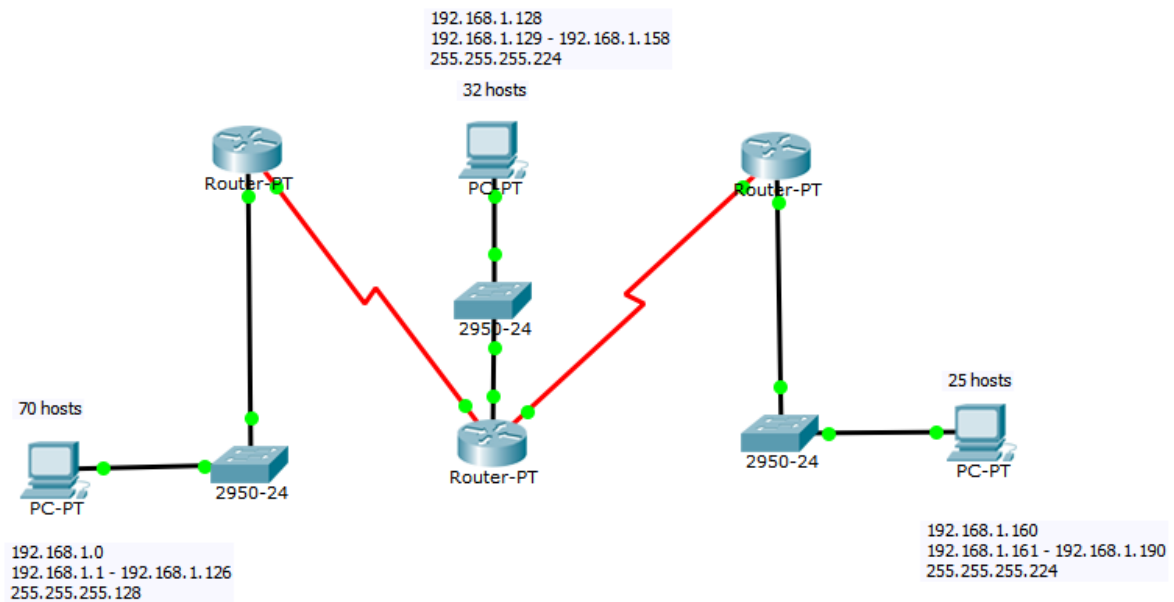


QUESTION NO 03

TOPOLOGY



REQUIREMENTS



CONFIGURATION

ROUTER 01

IP Configuration	
IP Address	192.168.1.1
Subnet Mask	255.255.255.128

IP Configuration	
IP Address	192.168.4.1
Subnet Mask	255.255.255.252

ROUTER 02

IP Configuration	
IP Address	192.168.1.129
Subnet Mask	255.255.255.224

IP Configuration	
IP Address	192.168.4.2
Subnet Mask	255.255.255.252

IP Configuration	
IP Address	192.168.4.5
Subnet Mask	255.255.255.252

ROUTER 03

IP Configuration	
IP Address	192.168.1.161
Subnet Mask	255.255.255.224

IP Configuration	
IP Address	192.168.4.6
Subnet Mask	255.255.255.252

PC01

IP Configuration	
<input type="radio"/> DHCP	
<input checked="" type="radio"/> Static	
IP Address	192.168.1.2
Subnet Mask	255.255.255.128

PC02

IP Configuration	
<input type="radio"/> DHCP	
<input checked="" type="radio"/> Static	
IP Address	192.168.1.130
Subnet Mask	255.255.255.224

PC03

IP Configuration	
<input type="radio"/> DHCP	
<input checked="" type="radio"/> Static	
IP Address	192.168.1.162
Subnet Mask	255.255.255.224

CONNECTION SUCCESSFUL

Time: 00:17:04 Power Cycle Devices Fast Forward Time

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num
	Successful	PC0	PC1	ICMP	Blue	0.000	N	0
	Successful	PC0	PC2	ICMP	Purple	0.000	N	1
	Successful	PC2	PC1	ICMP	Green	0.000	N	2

QUESTION NO 04

We set up a static network when only one default route is used without remote structures. This is also referred to as a stub network.

Dynamic routing is used for large networks where multiple devices share data and network messages.