LAB-10

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P19-0073

Topology:

Destination Network=192.168.1.0
subnet mask=255.255.255.255
next hop=10.10.10.1

Destination Network=192.168.2.0
subnet mask=255.255.255.255
next hop=10.10.10.2

10.10.10.2

Router-PT
r1

10.10.10.1

Router-PT
r2

192.168.2.1

192.168.1.1

Switch-PT
Switch0

Switch-PT
Switch1

Laptop-PT
Laptop0

Laptop-PT
Laptop1

Router 1:

FastEthernet0/0	
Port Status	☑ On
Bandwidth	◉ 100 Mbps ○ 10 Mbps ☑ Auto
Duplex	○ Half Duplex ◉ Full Duplex ☑ Auto
MAC Address	00E0.F77E.44C9

IP Configuration

IP Address	10.10.10.2
Subnet Mask	255.0.0.0

Tx Ring Limit	10

FastEthernet1/0

Port Status	☑ On
Bandwidth	◉ 100 Mbps ○ 10 Mbps ☑ Auto
Duplex	○ Half Duplex ◉ Full Duplex ☑ Auto
MAC Address	0001.9700.A64A

IP Configuration

IP Address	192.168.2.1
Subnet Mask	255.255.255.0

Tx Ring Limit	10

Static Routes

Network _____

Mask _____

Next Hop _____

[Add]

Network Address

192.168.1.0/30 via 10.10.10.1

[Remove]

ds

Router 2:

FastEthernet0/0

Port Status	☑ On
Bandwidth	◉ 100 Mbps ◯ 10 Mbps ☑ Auto
Duplex	◯ Half Duplex ◉ Full Duplex ☑ Auto
MAC Address	00E0.A3E4.105B

IP Configuration

IP Address	10.10.10.1
Subnet Mask	255.0.0.0

Tx Ring Limit	10

FastEthernet1/0

Port Status	☑ On
Bandwidth	◉ 100 Mbps ◯ 10 Mbps ☑ Auto
Duplex	◯ Half Duplex ◉ Full Duplex ☑ Auto
MAC Address	00D0.BA92.DB84

IP Configuration

IP Address	192.168.1.1
Subnet Mask	255.255.255.0

Tx Ring Limit	10

Static Routes

Network	
Mask	
Next Hop	

	Add

Network Address

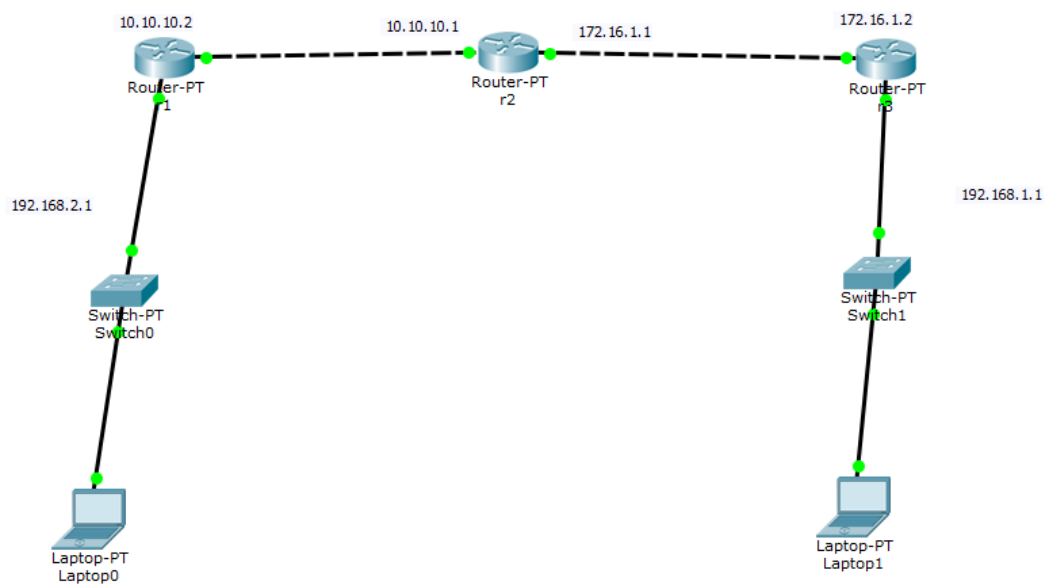192.168.2.0/32 via 10.10.10.2

192.168.2.0/30 via 10.10.10.2

Remove

Packet Transfer:

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
●	Successful	Laptop1	Laptop0	ICMP		0.000	N	0	(edit)	(delete)
●	Successful	Laptop0	Laptop1	ICMP		0.000	N	1	(edit)	(delete)

6:50 pm

3 Router Topology:

Router 1:

FastEthernet0/0

Port Status	☑ On
Bandwidth	◉ 100 Mbps ○ 10 Mbps ☑ Auto
Duplex	○ Half Duplex ◉ Full Duplex ☑ Auto
MAC Address	00D0.D325.7601

IP Configuration

IP Address	10.10.10.2
Subnet Mask	255.0.0.0

Tx Ring Limit	10

FastEthernet1/0

Port Status	☑ On
Bandwidth	◉ 100 Mbps ○ 10 Mbps ☑ Auto
Duplex	○ Half Duplex ◉ Full Duplex ☑ Auto
MAC Address	0060.3E8D.4C3D

IP Configuration

IP Address	192.168.2.1
Subnet Mask	255.255.255.0

Tx Ring Limit	10

Static Routes

Network	
Mask	
Next Hop	

Add

Network Address

172.16.0.0/16 via 10.10.10.1

192.168.1.0/24 via 172.16.1.2

Remove

Router 2:

FastEthernet0/0

Port Status	☑ On
Bandwidth	◉ 100 Mbps ○ 10 Mbps ☑ Auto
Duplex	○ Half Duplex ◉ Full Duplex ☑ Auto
MAC Address	000C.CF3A.A7BD

IP Configuration

IP Address	10.10.10.1
Subnet Mask	255.0.0.0

Tx Ring Limit	10

FastEthernet1/0

Port Status	☑ On
Bandwidth	◉ 100 Mbps ○ 10 Mbps ☑ Auto
Duplex	○ Half Duplex ◉ Full Duplex ☑ Auto
MAC Address	0040.0B36.00C9

IP Configuration

IP Address	172.16.1.1
Subnet Mask	255.255.0.0

Tx Ring Limit	10

Static Routes

Network [   ]

Mask [   ]

Next Hop [   ]

_____   [Add]

Network Address
192.168.2.0/24 via 10.10.10.2
192.168.1.0/24 via 172.16.1.2

[Remove]

Router 3:

FastEthernet0/0
Port Status   ☑ On
Bandwidth   ◉ 100 Mbps ◯ 10 Mbps ☑ Auto
Duplex   ◯ Half Duplex ◉ Full Duplex ☑ Auto
MAC Address   0003.E465.2586

IP Configuration

IP Address   172.16.1.2

Subnet Mask   255.255.0.0

Tx Ring Limit   10

FastEthernet1/0

Port Status	☑ On
Bandwidth	◉ 100 Mbps ○ 10 Mbps ☑ Auto
Duplex	○ Half Duplex ◉ Full Duplex ☑ Auto
MAC Address	0001.9756.08DC

IP Configuration

IP Address	192.168.1.1
Subnet Mask	255.255.255.0

Tx Ring Limit	10

Static Routes

Network	
Mask	
Next Hop	

Add

Network Address

10.0.0.0/8 via 172.16.1.1

192.168.2.0/24 via 10.10.10.2

Remove

s

Packet transfer:

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
●	Successful	Laptop1	Laptop0	ICMP	■	0.000	N	0	(edit)	(delete)
●	Successful	Laptop0	Laptop1	ICMP	■	0.000	N	1	(edit)	(delete)