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J1 CSE-CC

Experiment 5

AIM - Demonstration of Static Routing using 3 Routers (Serial Cable and Classless IP Addressing)

Given address space:

192.168.10.0/27

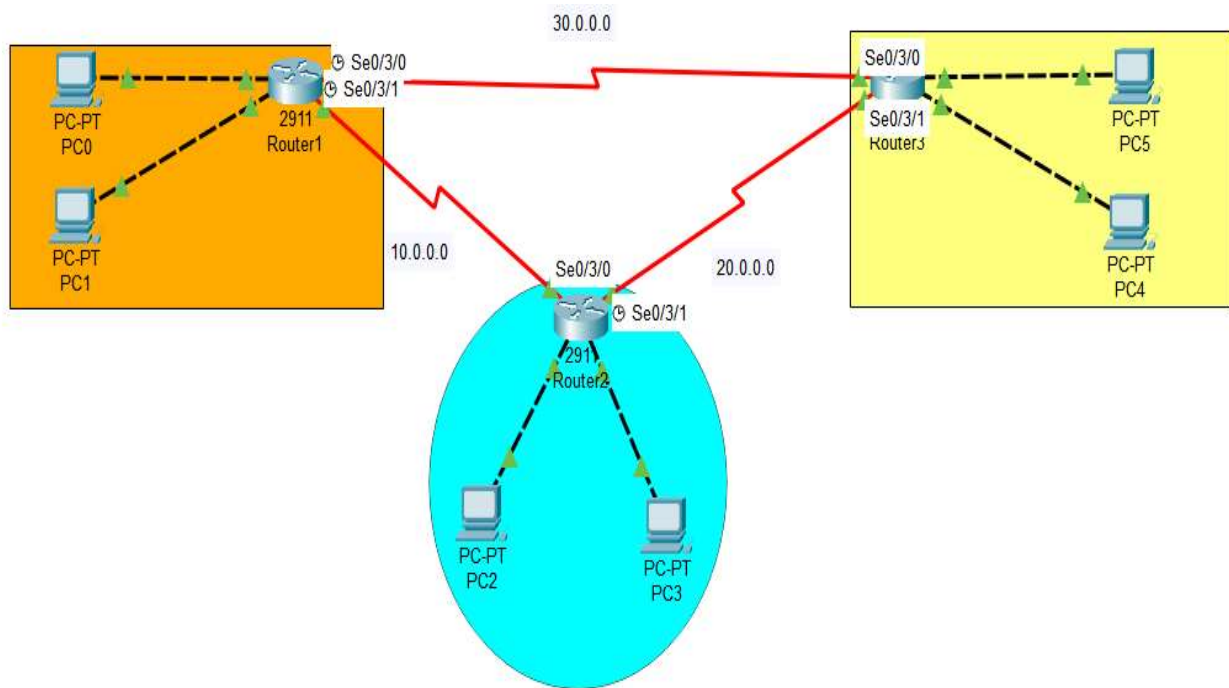
/27

Total **27 bits for NetID** and **5 bits for HostID**

Subnet	Network Address	Broadcast Address	Usable Address	Subnet Mask
Subnet 1	192.168.10.0	192.168.10.31	192.168.10.1 to 192.168.10.30	255.255.255.224
Subnet 2	192.168.10.32	192.168.10.63	192.168.10.33 to 192.168.10.62	255.255.255.224
Subnet 3	192.168.10.64	192.168.10.95	192.168.10.65 to 192.168.10.94	255.255.255.224
Subnet 4	192.168.10.96	192.168.10.127	192.168.10.97 to 192.168.10.126	255.255.255.224
Subnet 5	192.168.10.128	192.168.10.159	192.168.10.129 to 192.168.10.158	255.255.255.224
Subnet 6	192.168.10.160	192.168.10.191	192.168.10.161 to 192.168.10.190	255.255.255.224
Subnet 7	192.168.10.192	192.168.10.223	192.168.10.193 to 192.168.10.222	255.255.255.224
Subnet 8	192.168.10.224	192.168.10.255	192.168.10.225 to 192.168.10.254	255.255.255.224

Subnet

=>128+64+32=224



Cisco Packet Tracer - E:\STUDY\COLLEGE\4TH SEM\Computer Communication\LAB\6\Demonstration of Static Routing using 3 Routers.pkt

File Edit Options View Tools Extensions Help

Logical Physical x 1537, y 454 [Root] 13:47:00

PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
Successful	PC0	PC1	ICMP	0.000	N	0	(edit)	(delete)		
Successful	PC2	PC3	ICMP	0.000	N	1	(edit)	(delete)		
Successful	PC5	PC4	ICMP	0.000	N	2	(edit)	(delete)		
Successful	PC0	Router1	ICMP	0.000	N	3	(edit)	(delete)		
Successful	PC5	Router3	ICMP	0.000	N	4	(edit)	(delete)		
Successful	PC2	Router2	ICMP	0.000	N	5	(edit)	(delete)		

Time: 00:27:27 Realtime Simulation

Scenario 0

New Delete

Toggle PDU List Window

RESULT - Static Routing using 3 Routers (Serial Cable and Classless IP Addressing) is studied