Assignment #1

CCN

Submitted By:

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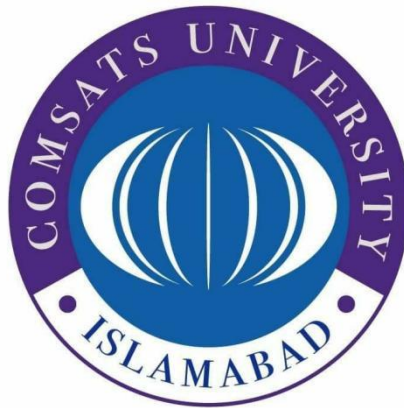
Registration #:

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CUI ISLAMABAD, SAHIWAL CAMPUS

Connect Three LAN Networks with Three Routers

IP ADRESS FORMAT

DAY	MONTH	YEAR	Last octa
04	08	2001	Any number

PC	IP ADRESS	ROUTERS	IP ADDRESS
PC1	04.08.1.21	Router0	188.8.1.1
PC2	04.08.1.22	Router1	188.8.1.2
PC3	04.08.1.23	Router2	188.8.1.3
PC4	04.08.1.24	Subnet0	255.255.0.0
PC5	04.08.1.25	Subnet1	255.255.0.0
PC6	04.08.1.26	Subnet3	255.255.0.0

STEPS:

- First drag 6 PC's ,3 routers and 3 switches on the logical workspace.
- Assign IP addresses to all the PC's and Routers according to the date of birth(04-08-2001).
- Then assign IP address of router0 to the gateway address of the PC1 and PC2.
- Assign IP address of router1 to the gateway address of the PC3 and PC4.
- Assign IP address of router2 to the gateway address of the PC5 and PC6.
- Add NIM-2T Serial port in 1 port of Router0.
- Add NIM-2T Serial port in 2 ports of Router1.
- Add NIM-2T Serial port in 1 port of Router2.
- Assign IP's to these Serial Ports
- Connect Router1 ,Router2 and Router0 through Serial DCE wire.
- Connect PC1 and PC2 with straight through wire with switch1 and the connect switch1 with straight through wire Router0.

- Connect PC3 and PC4 with straight through wire with switch2 and the connect switch2 with straight through wire Router1.
- Connect PC5 and PC6 with straight through wire with switch3 and the connect switch3 with straight through wire Router2.
- For static configuration, open static in router0 left menu and add IP Address of Router1 and IP Address of left Serial Port of Router1 and subnet mask of the IP then add the network. And now add IP Address of Router2 ,its subnet mask and serial address of the port. Vice versa for all routers.
- All the components are connected with green signal.

Screenshot: