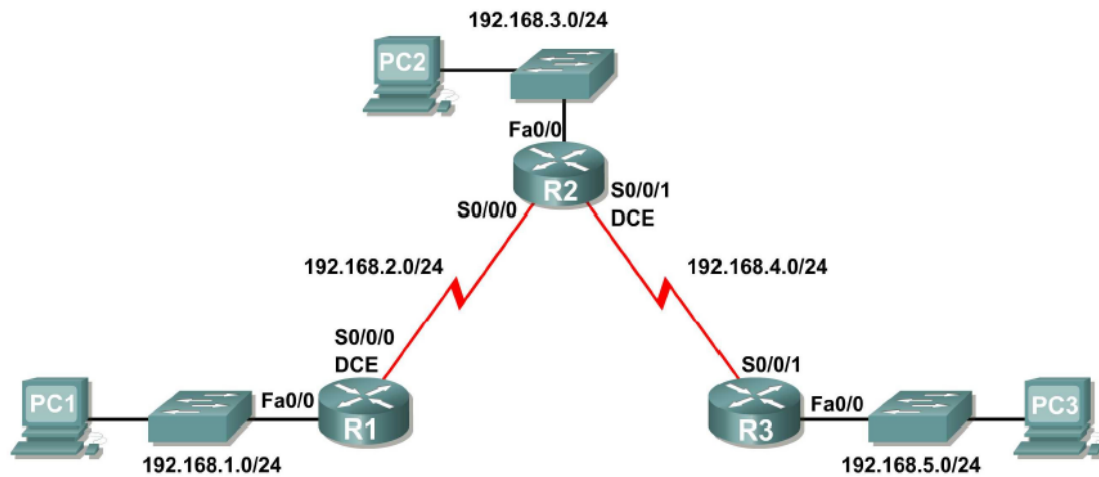**Ankara University**

Department of Computer Engineering

COM332 Data Communication and Networking

Lab 3

2018

Topology Diagram

Addressing Table

Device	Interface	IP Address	Subnet Mask	Default Gateway
R1	Fa0/0	192.168.1.1	255.255.255.0	N/A
	S0/0/0	192.168.2.1	255.255.255.0	N/A
R2	Fa0/0	192.168.3.1	255.255.255.0	N/A
	S0/0/0	192.168.2.2	255.255.255.0	N/A
	S0/0/1	192.168.4.2	255.255.255.0	N/A
R3	Fa0/0	192.168.5.1	255.255.255.0	N/A
	S0/0/1	192.168.4.1	255.255.255.0	N/A
PC1	NIC	192.168.1.10	255.255.255.0	192.168.1.1
PC2	NIC	192.168.3.10	255.255.255.0	192.168.3.1
PC3	NIC	192.168.5.10	255.255.255.0	192.168.5.1

Lab 3.1: Static Route Configuration

Lab 3.2: RIP Configuration

NOTE: **ALL S0/0/0** is **S0/3/0**

NOTE: **ALL S0/0/1** is **S0/3/1**

Steps

1. Is Your Computer DCE or DTE?
2. Give a hostname. (PC1, PC2, PC3)
3. Configure your **COMPUTER**'s IP, SUBNET MASK and DEFAULT GATEWAY.
4. Configure your **ROUTER**'s FastEthernet.
5. Configure your **ROUTER**'s Serial Interface. Remember **DCE** Routers must give **Clockrate**. **PC2 be careful! You have 2 Serial interface!**
6. Disable the Firewall!
7. Make Static Routing!
8. Ping!
   a.   PC1 : ping 192.168.3.10

         PC1 : ping 192.168.5.10
   b.   PC2 : ping 192.168.1.10

         PC2 : ping 192.168.5.10
   c.   PC3 : ping 192.168.3.10

         PC3 : ping 192.168.1.10
9. Remove Static Routing!
10. Make Dynamic Routing!
    a.   PC1 : ping 192.168.3.10

          PC1 : ping 192.168.5.10
    b.   PC2 : ping 192.168.1.10

          PC2 : ping 192.168.5.10
    c.   PC3 : ping 192.168.3.10

          PC3 : ping 192.168.1.10
11. Remove Dynamic Routing
12. Erase!