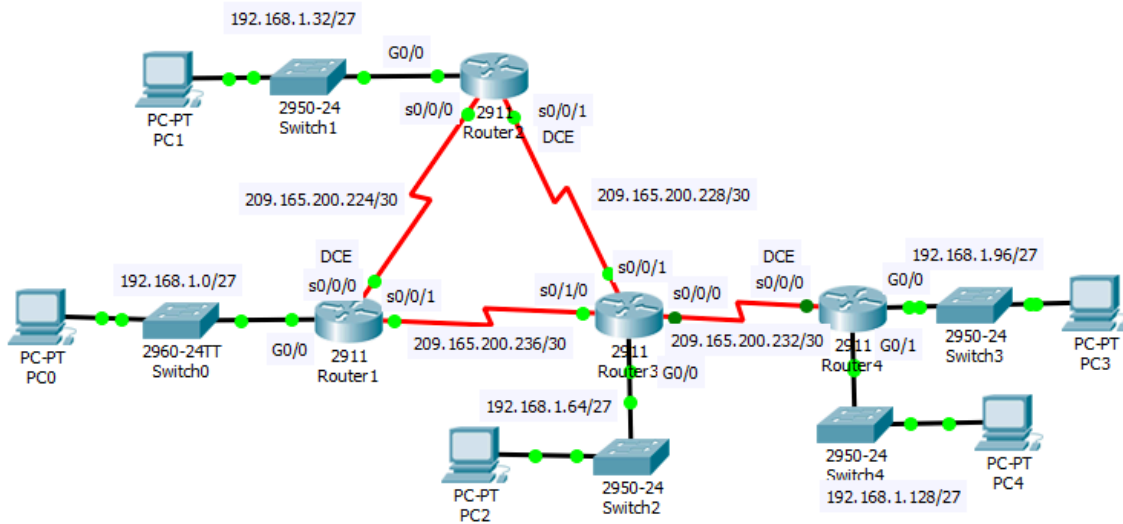


306NET
Assignment #1
2nd semester 1439-1440

For the following network



Address Table

Device	Interface	IP address	Subnet mask	Default Gateway
R1	G0/0	192.168.1.1	255.255.255.224	N/A
	S0/0/0	209.165.200.225	255.255.255.252	N/A
	S0/0/1	209.165.200.237	255.255.255.252	N/A
R2	G0/0	192.168.1.33	255.255.255.224	N/A
	S0/0/0	209.165.200.226	255.255.255.252	N/A
	S0/0/1	209.165.200.229	255.255.255.252	N/A
R3	G0/0	192.168.1.65	255.255.255.224	N/A
	S0/0/0	209.165.200.233	255.255.255.252	N/A
	S0/0/1	209.165.200.230	255.255.255.252	N/A
	S0/1/0	209.165.200.238	255.255.255.252	N/A
R4	G0/0	192.168.1.97	255.255.255.224	N/A
	G0/1	192.168.1.129	255.255.255.224	N/A
	S0/0/0	209.165.200.234	255.255.255.252	N/A
PC0		192.168.1.10	255.255.255.224	192.168.1.1
PC1		192.168.1.62	255.255.255.224	192.168.1.33
PC2		192.168.1.94	255.255.255.224	192.168.1.65
PC3		192.168.1.126	255.255.255.224	192.168.1.97
PC3		192.168.1.158	255.255.255.224	192.168.1.129

1- Set Up the Topology and Configure Basic Device Settings

- Set the IP addresses of the devices and router interfaces (for the serial interfaces set the clock rate to 64000).
- On R1, set the hostname, disabling DNS lookup, the banner message (“Authorized Access only!!”), password encryption, and passwords (secret 111, console 222, VTY 333).
- Verify LAN connectivity.

2- Configure Static Routes

- On R1, configure a default route using the exit interface s0/0/0 as a next hop option
- On R1, configure a float default route using the exit interface s0/0/1 as a next hop option
- On R2, configure a next hop static route to all the networks
- On R3, Configure a directly connected static route to all the networks
- On R4, configure a summary route that represent the all other network using the next hop IP address as next hop option.
- Verify the connectivity between the networks.