



How many networks are there in the following topology?

Given the ip address 172.16.10.0/24, subnet the following ip address such that:

- network1 and network2 : 50 hosts

- network 3,4,5,6,7 : 2 hosts

1. Configure all interfaces and PCs with the appropriate ip address.

Note: use the same interfaces shown in the figure. Use router 1841

2. On **R4** configure :

- console password
- Privilege password
- telnet password (VTY)
- encrypt all passwords
- message of the day

CAN PC2 reach PC4? WHY?

CAN PC2 reach PC1? WHY?

CAN PC2 reach PC3? WHY?

On R1 ,R2,R3 check the routing table(show ip route) what networks can each router reach?

3. Configure a static route on routers **R1,R2,R3** SO the network is fully converged. And Configure a default route on R4 so the router can be able to reach all other networks

Make sure you configure a static route on **R1** such that networks of R4 can be reached through interface **F0/1 of R1**. However on other routers you are free to choose the path while configuring the static route to R1.

Now , On R1 ,R2,R3,R4 check the routing table(show ip route) what networks can each router reach?

CAN PC2 reach PC4? WHY?

CAN PC2 reach PC1? WHY?

4. Use the telnet command to access R4 from PC2, and add a description on interface G0/0.