## 21BCE7371 RADHA KRISHNA GARG

## SUBNETTING and VERIFICATION

## OSPF:

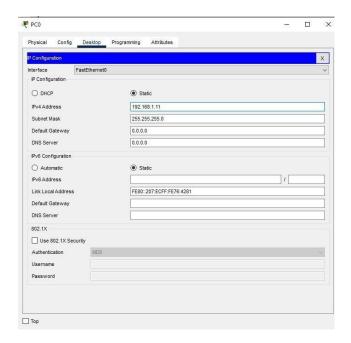
Create the following configuration.

Configure PC0 with IPv4 of 192.168.1.11 and default gateway of 192.168.1.1. Similarly PC1 with IPv4 of 155.165.1.11 and default gateway of 155.165.1.1 Assign Router0 with 192.168.1.1 and Router1 with 155.165.1.1 in FastEthernet0/0. Save the configuration by clicking on Save NVRAM. Open Router2 and enter 10.0.0.1 in Serial2/0 and switch on port status. Set the clock rate to 64000. Enter 30.0.0.1 in Serial3/0 and switch on the port status. Set the clock rate to 64000.

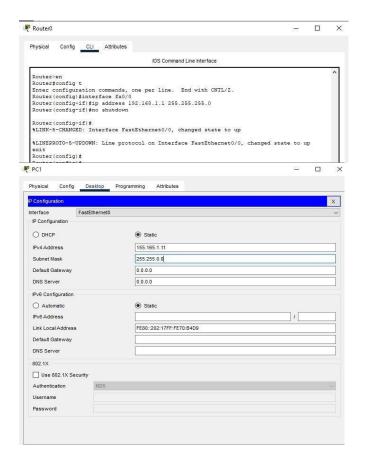
Open Router1, go to Serial2/0 and enter 30.0.0.2 and switch on the port status. Set the clock rate to 'Not Set'. Open Serial3/0 and enter 20.0.0.2 and switch on the port status. Set the clock rate to 'Not Set

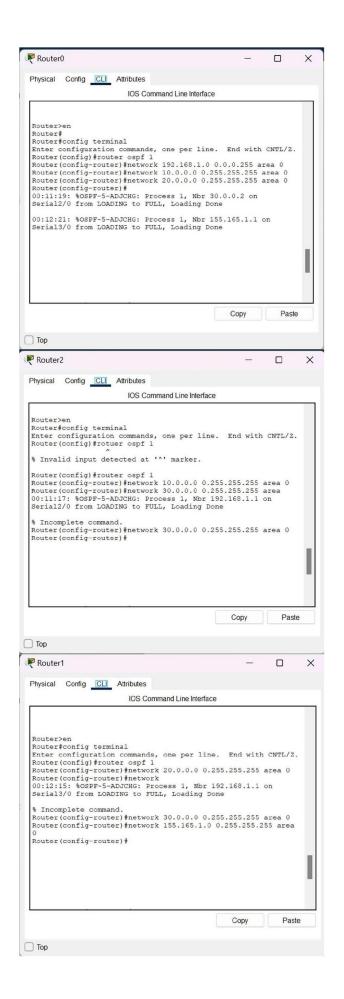
Open Router0, go to Serial2/0 and enter 10.0.0.2 and switch on the port status. Set the clock rate to 'Not Set'. Open Serial3/0 and enter 20.0.0.1 and switch on the port status. Set the clock rate to 64000.

Open the CLI of Router0, Router1 and Router2 and enter the following commands.

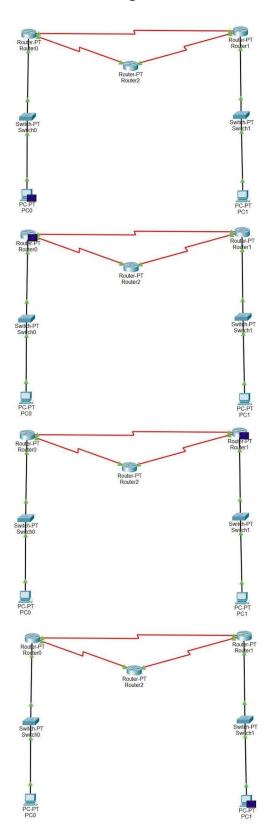


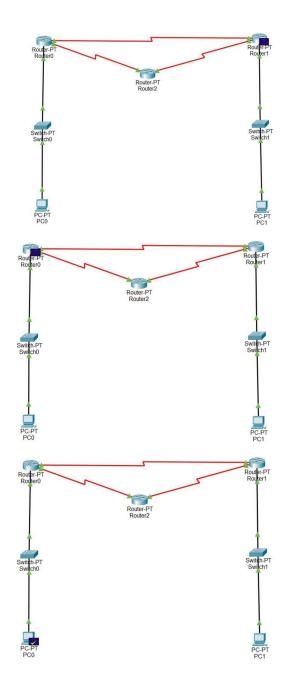




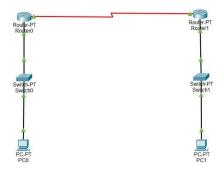


Set the source packet at PC0 and the destination packet as PC1.





**RIP:** Create the following configuration.

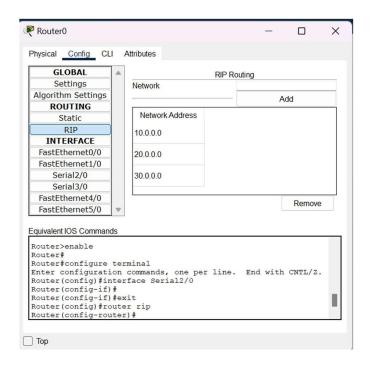


Set the IPv4 address and default gateway of PC0 as 10.10.1.2 and 10.10.1.1 respectively. Similarly for PC1 set IPv4 and gateways as 20.20.1.2 and 20.20.1.1 respectively.

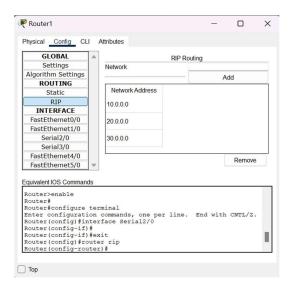
Go to FastEthernet0/0 of Router0 and Router1 and set the IPv4 address as 10.10.1.1 and

20.20.1.1 respectively. Switch the Port status on and save the NVRAM. Open Router0 and go to Serial2/0, enter 30.30.1.2, set the clock rate as 64000 and switch the Port status on. Save the NVRAM.

Similarly go to Serial2/0 in Router1, enter 30.30.1.3, set the clock rate as 'Not Set' and switch the Port Status on. Save the NVRAM.



Go to Router0, open RIP and enter 10.10.1.0, 20.20.1.0 and 30.30.1.0 as Network Addresses. Add the above addresses in Router1 as well.



A package is sent from PC0 to PC1.

