# Practical 2

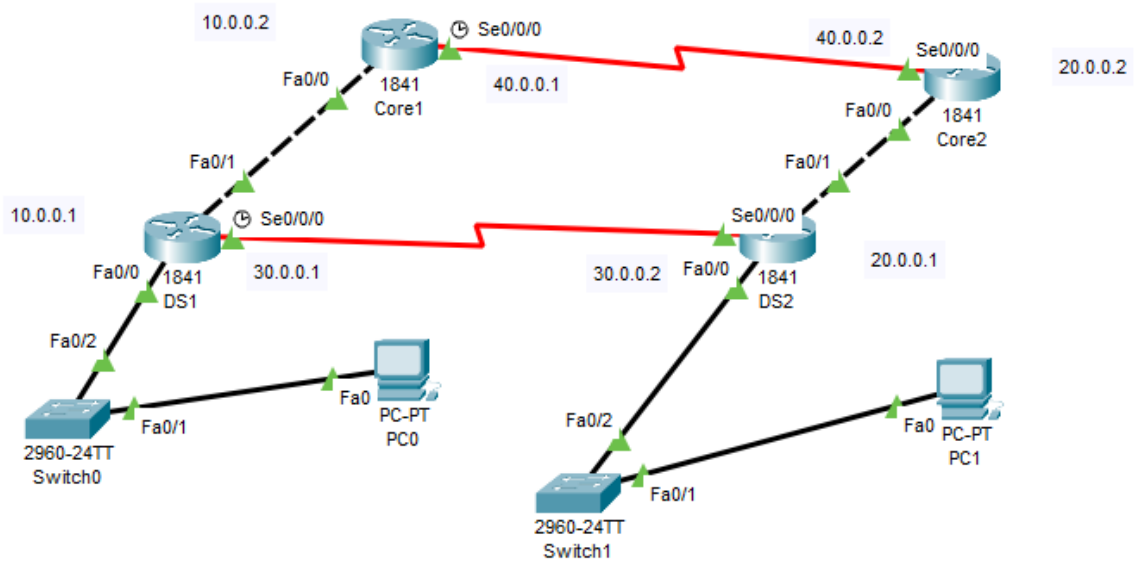
**Aim: Demonstrating Distribution Layer Functions**

**Components:**

- 2 PC
- 2 2960 Switch
- 4 1841 Router
- Copper Straight-Through wires
- Copper Cross-Over wires
- Serial DTE

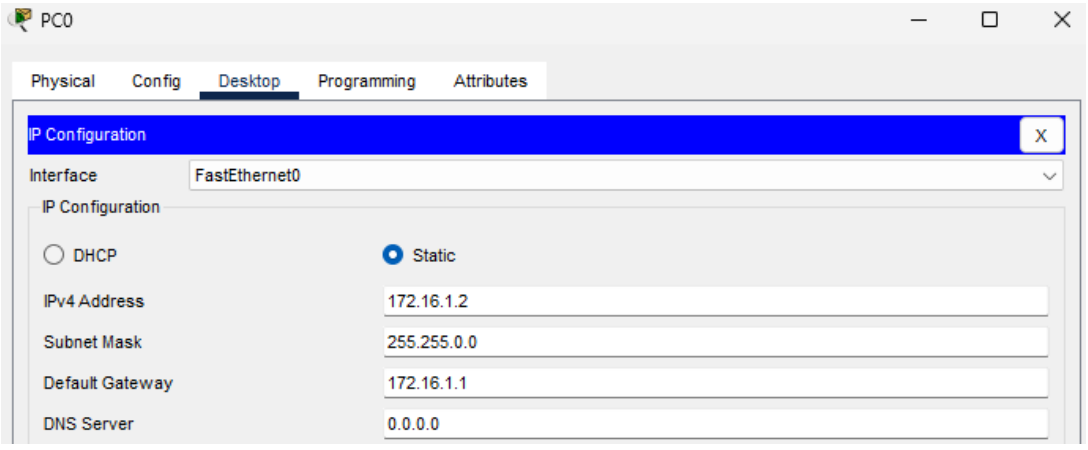
**Note: Make sure you have added serial ports to the routers**

**Configure The System**



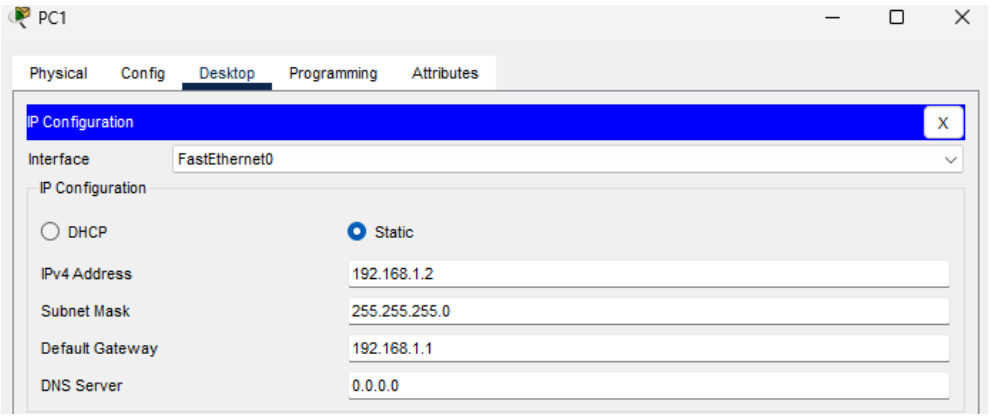

**Setup IP Address for PC0**

Click on PC and desktop -> IP Configuration



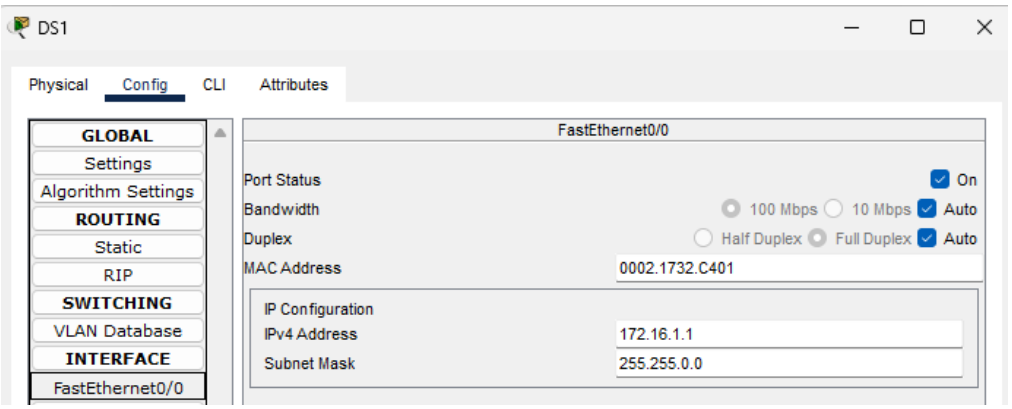
**Setup IP Address for PC1**

Click on PC and desktop -> IP Configuration



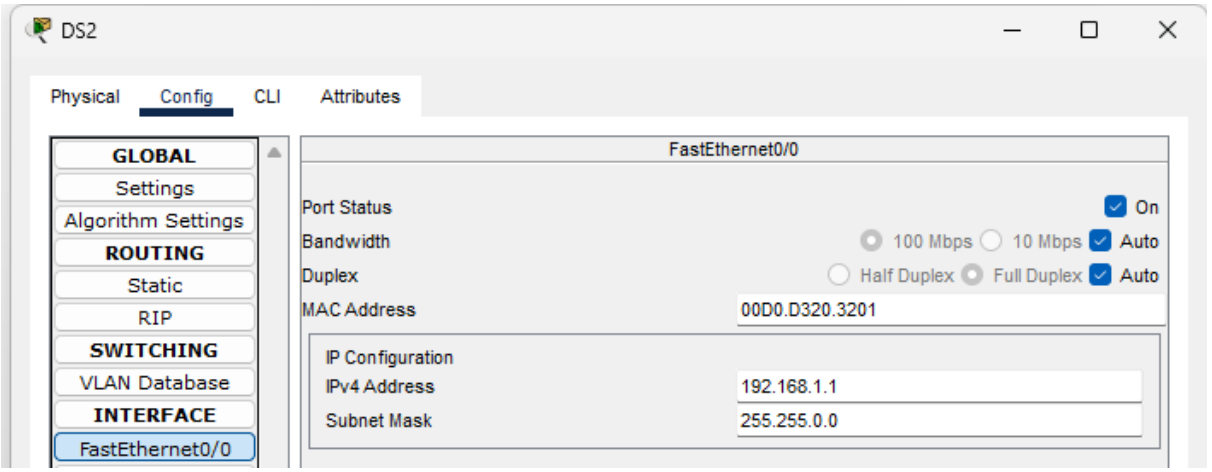

**Setup DS1**

Click on **DS1**, under **Config -> INTERFACE** select the interface you connected too add the ip address and turn it On (Note: In my case its fastethernet0/0)



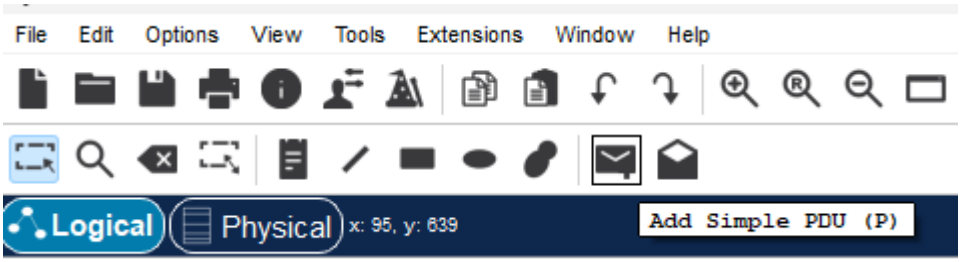

**Setup DS2**

Click on **DS2**, under **Config -> INTERFACE** select the interface you connected too add the ip address and turn it On (Note: In my case its fastethernet0/0)

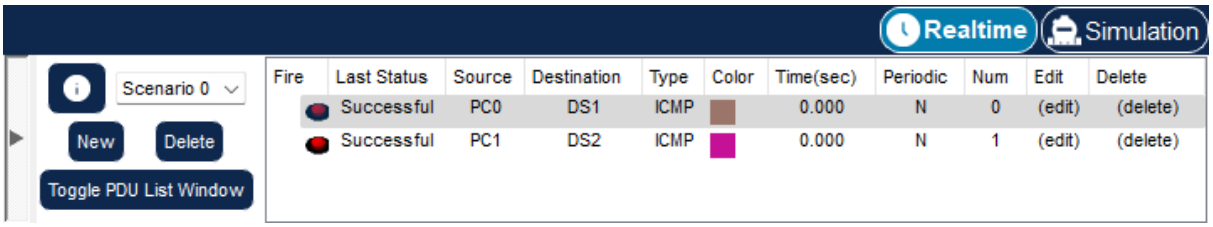


### Checking the connections between Routers and PC

Select the following Icon and Then select the starting point and the destination

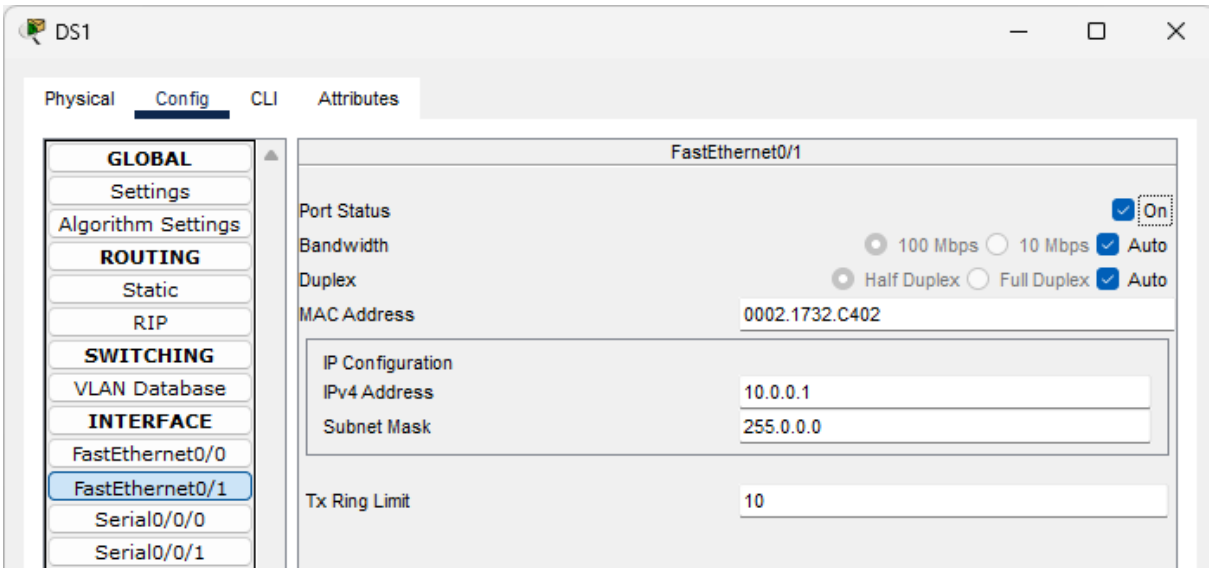



### Connection Between PC0 and DS1 & PC1 and DS2

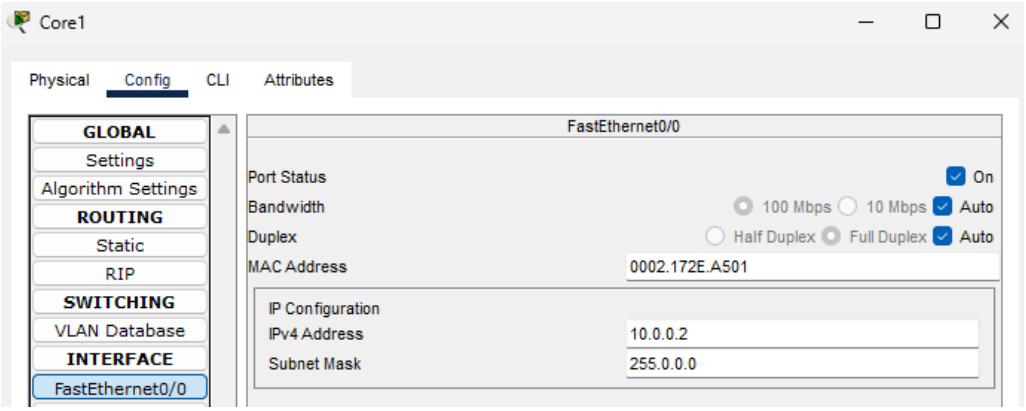



### Connecting DS1 to Core1

Click on **DS1**, under **Config -> INTERFACE** select the interface you connected too with **Core1** add the ip address and turn it On (Note: In my case its fastethernet0/1)

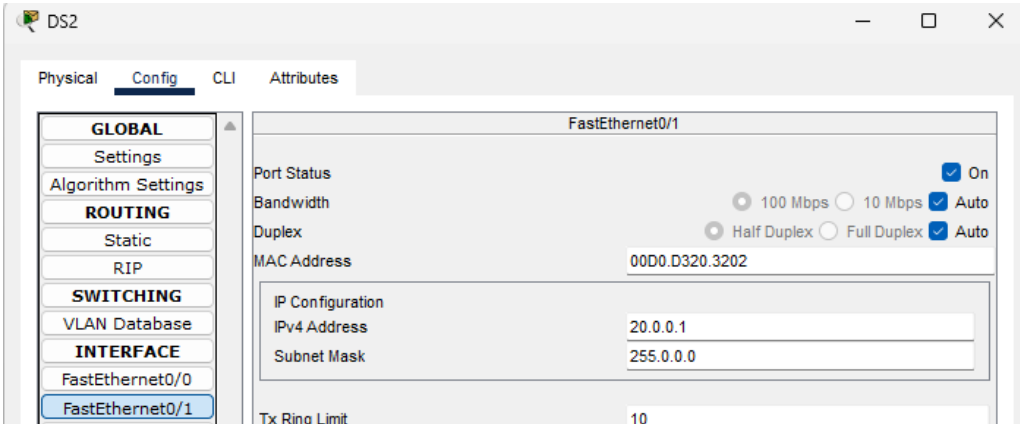


Interface in my case for **Core1** is fastethernet 0/0

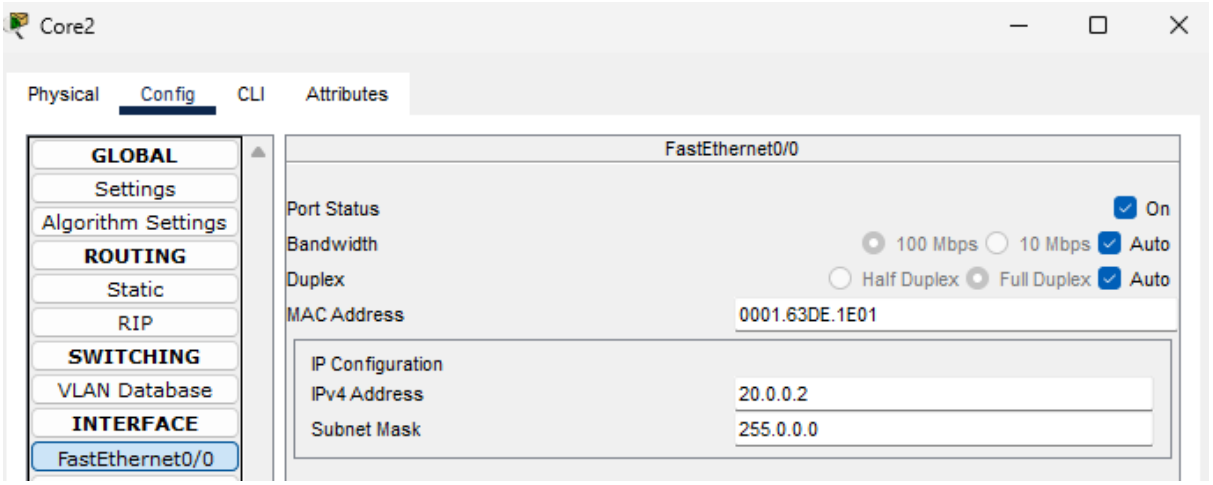



**Connecting DS2 to Core2**

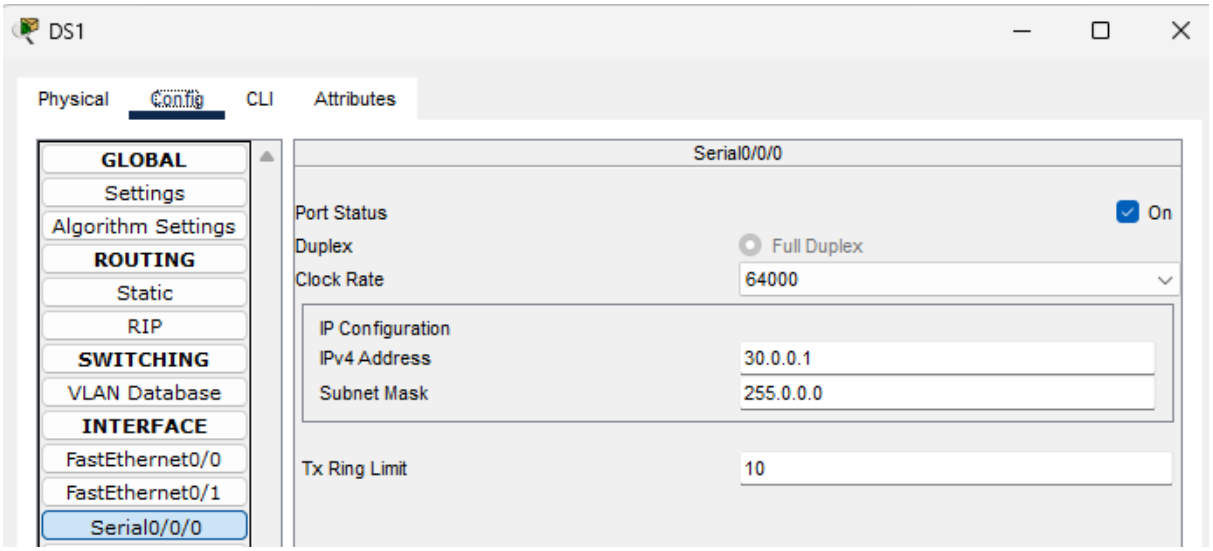
Click on **DS2**, under **Config -> INTERFACE** select the interface you connected too with **Core2** add the ip address and turn it On (Note: In my case its fastethernet0/1)

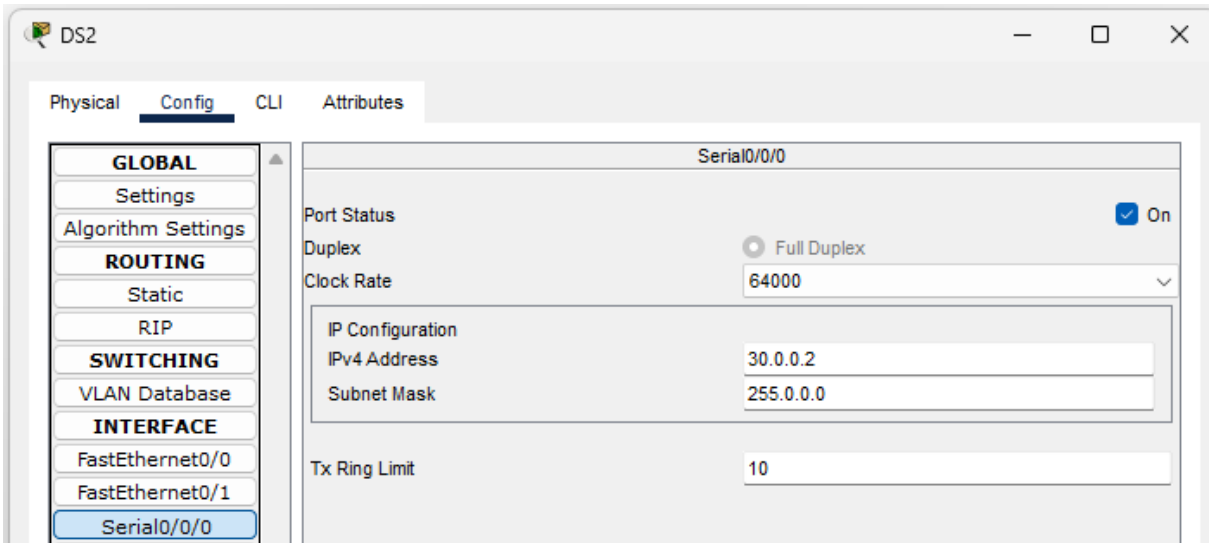



Interface in my case for **Core2** is fastethernet 0/0

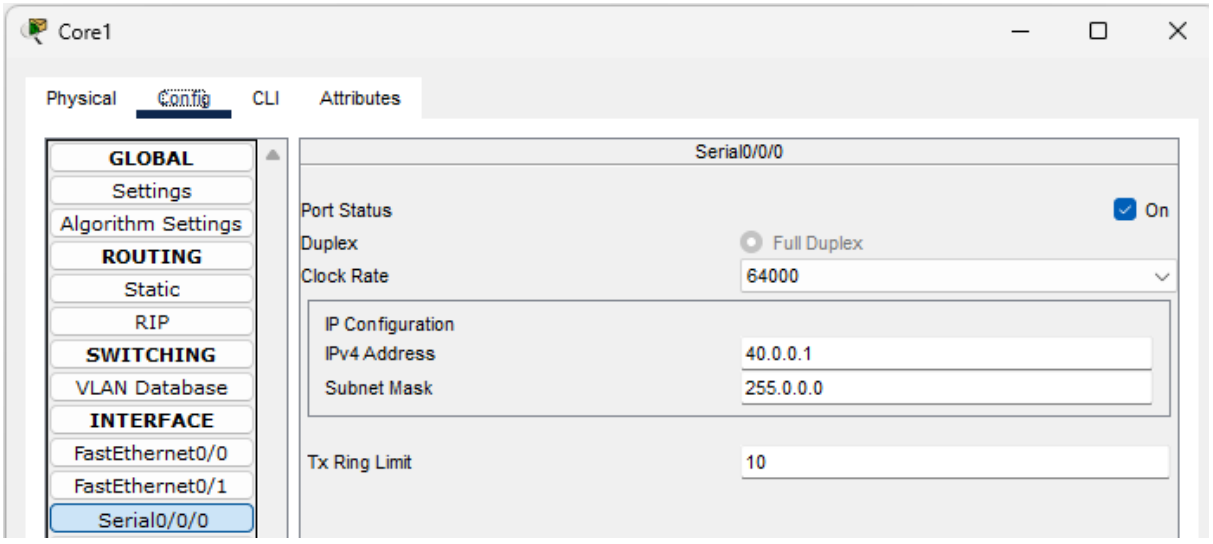


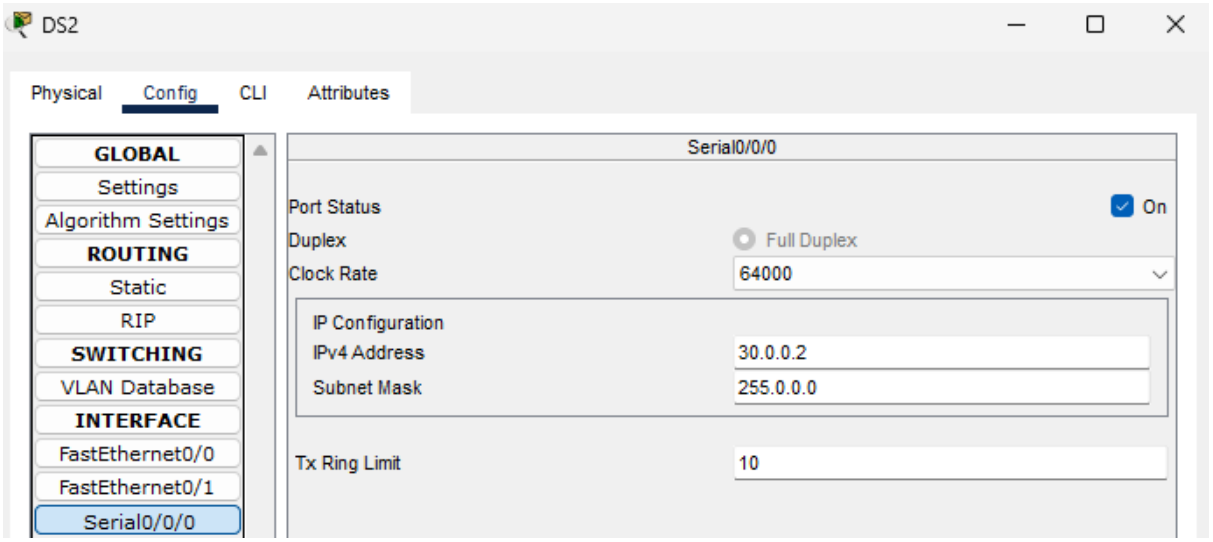
## Connecting DS1 & DS2



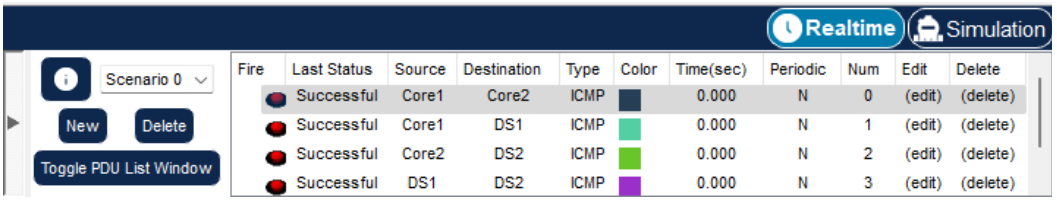




## Connecting Core1 & Core2



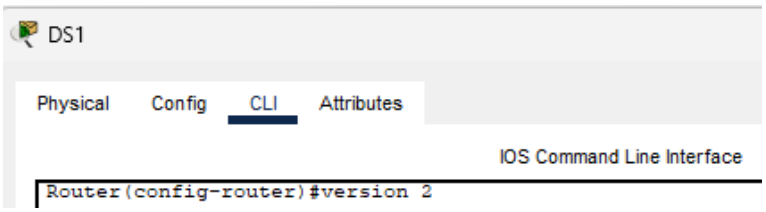



**Checking connection between all the routers**

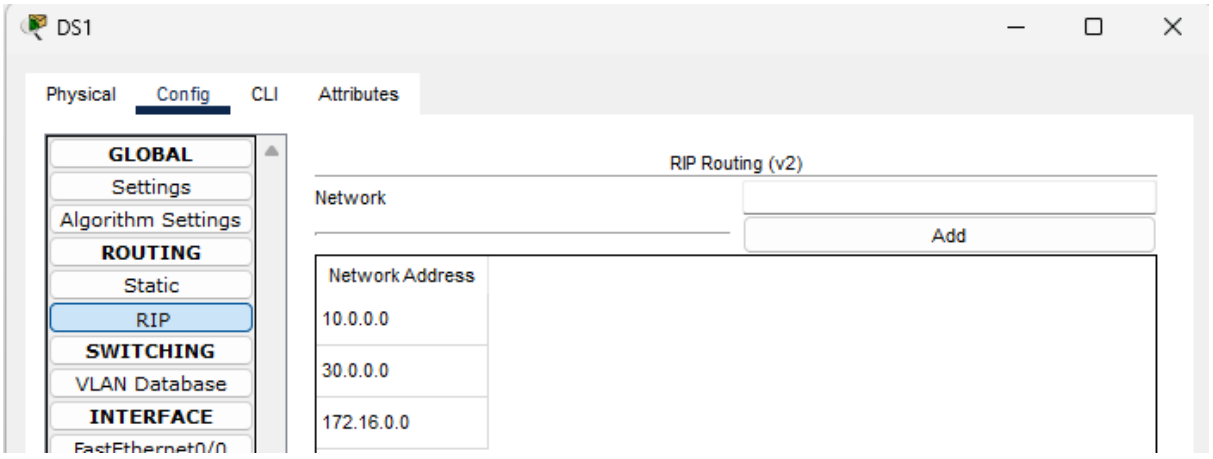



**Setting up RIP Routing in all routers**

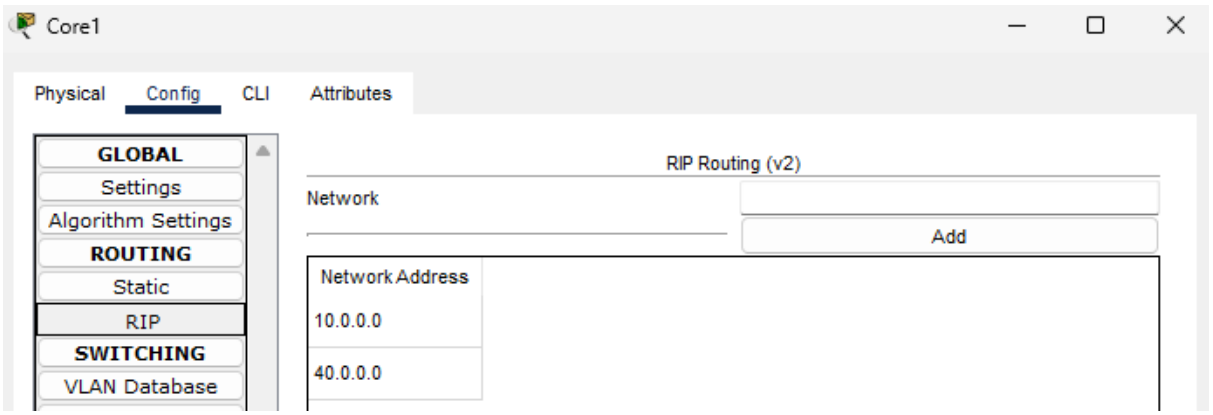
In all routers after **clicking** on **RIP** go to **CLI** and use **version 2** of **RIP**



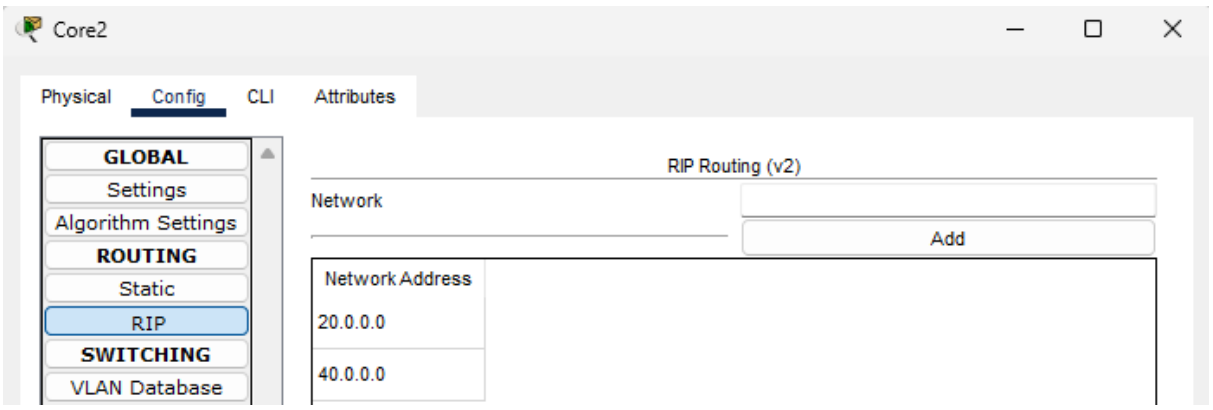

**DS1**



## Core1

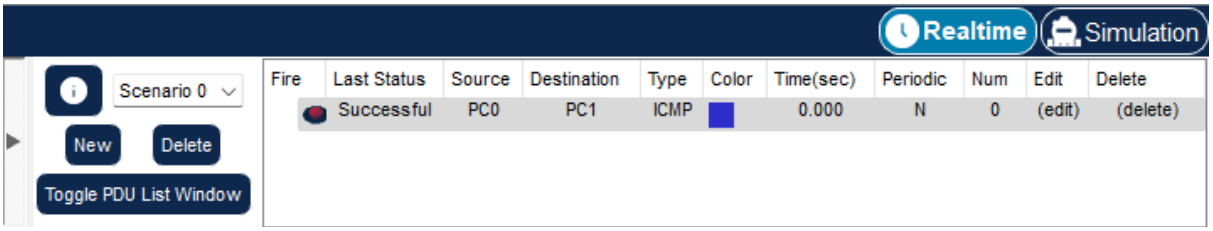



## Core2

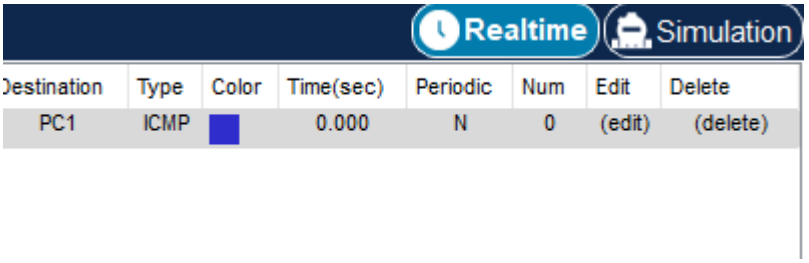



## DS2

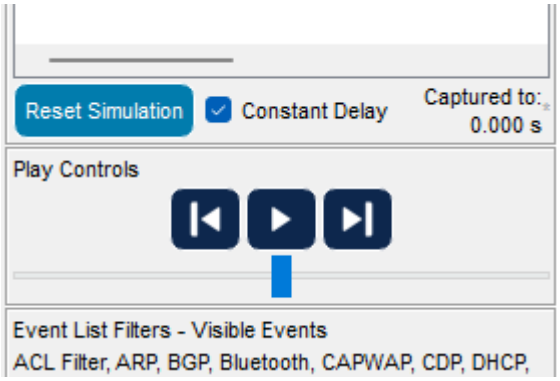
## Testing connection from PC0 to PC1



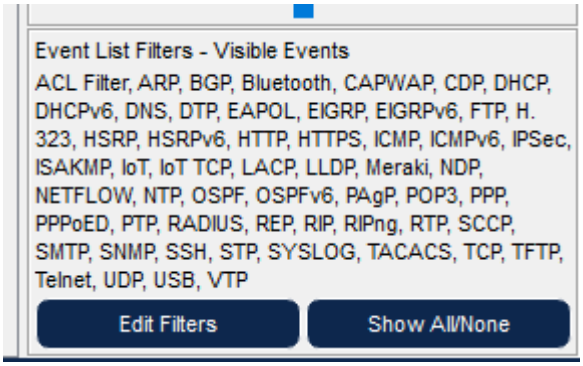

## Enter Simulation mode

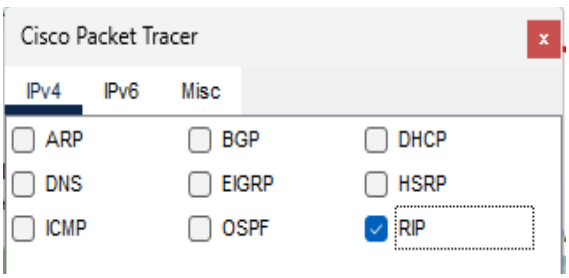


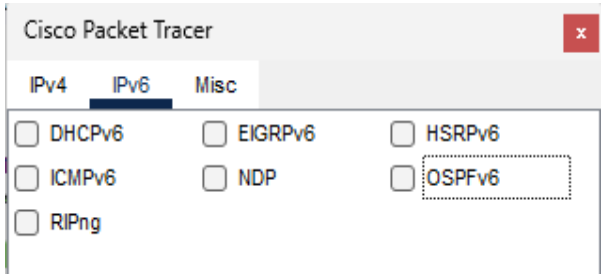

## Reset Simulation

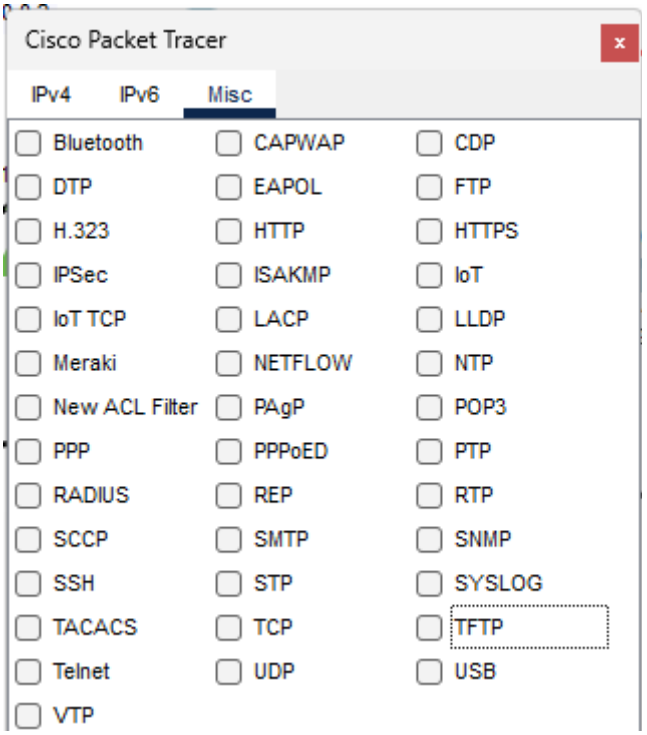



## Click on edit filters and only select RIP






**Click on the start button and simulation will start**