

Date: 16/09/2025

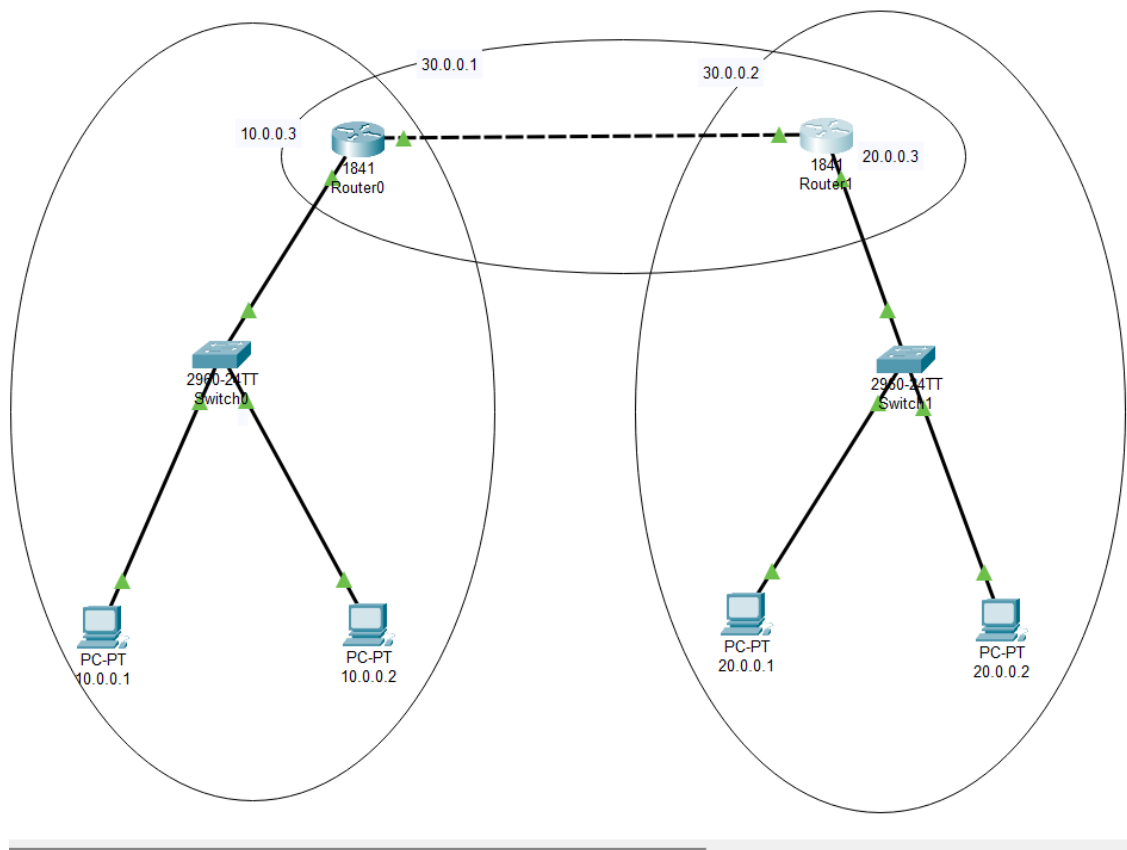
Lab Practical #12:

Study the concept of routing using packet tracer. (Dynamic Routing)

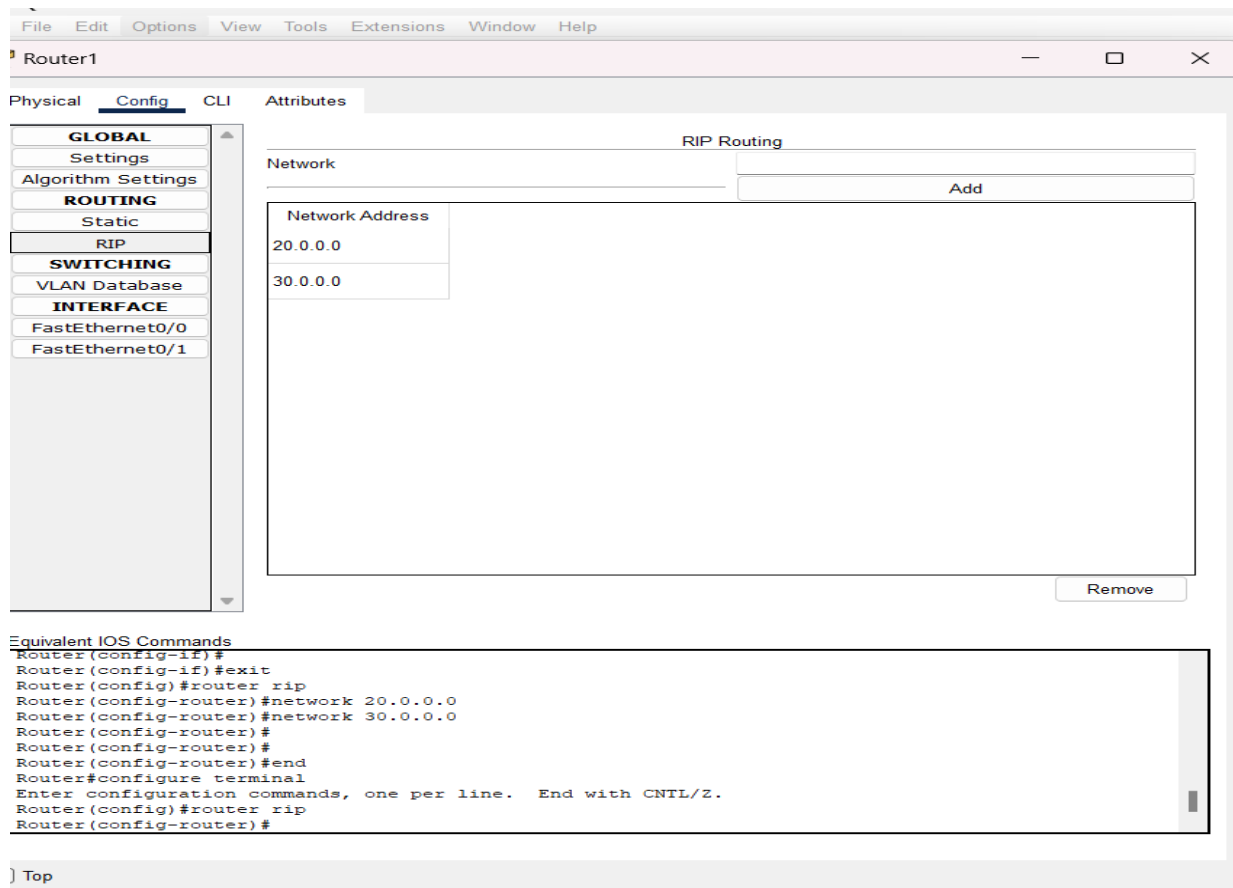
Practical Assignment #12:

1. Connect the two different networks based on the calculated IP addresses and subnet using a packet tracer.
2. Connect the three different networks based on the calculated IP addresses and subnet using a packet tracer.

1. Connect the two different networks based on the calculated IP addresses and subnet using a packet tracer.



Date: 16/09/2025



Router1

Physical Config CLI Attributes

GLOBAL

- Settings
- Algorithm Settings
- ROUTING**
 - Static
 - RIP**
- SWITCHING**
 - VLAN Database
- INTERFACE**
 - FastEthernet0/0
 - FastEthernet0/1

RIP Routing

Network

Network Address

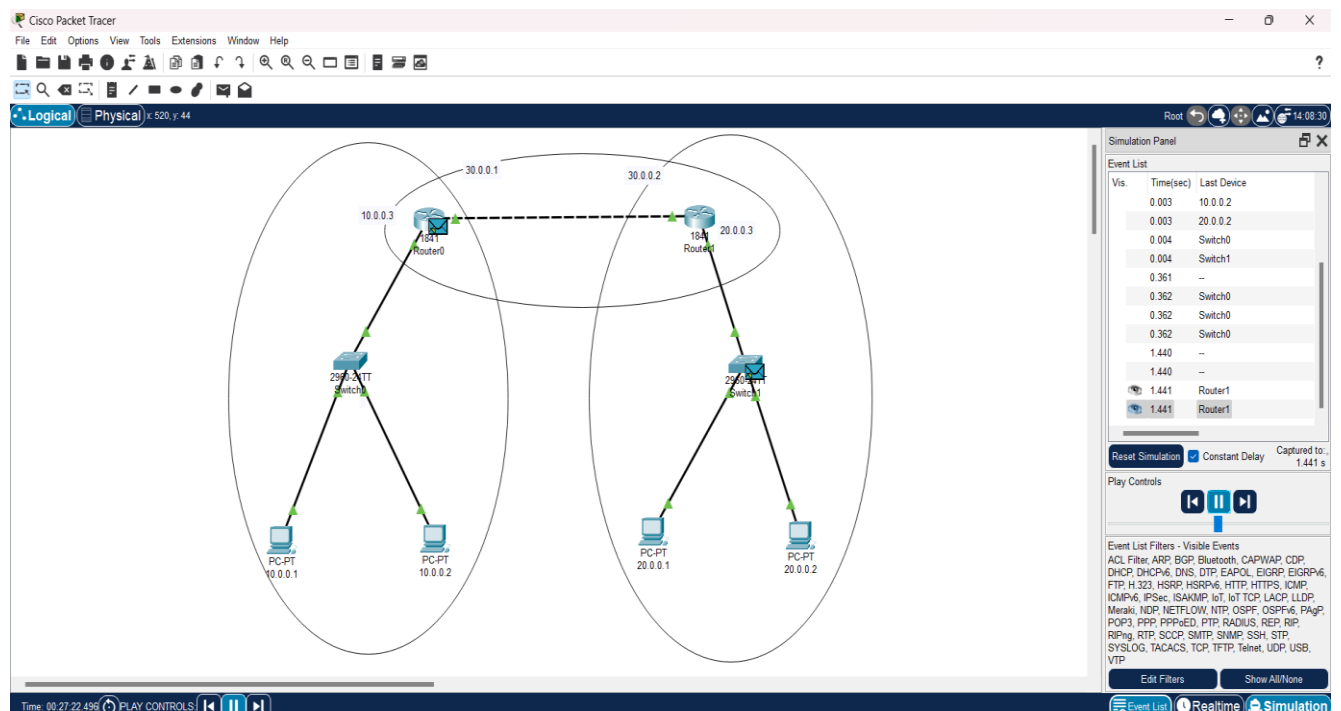
20.0.0.0
30.0.0.0

Add Remove

Equivalent IOS Commands

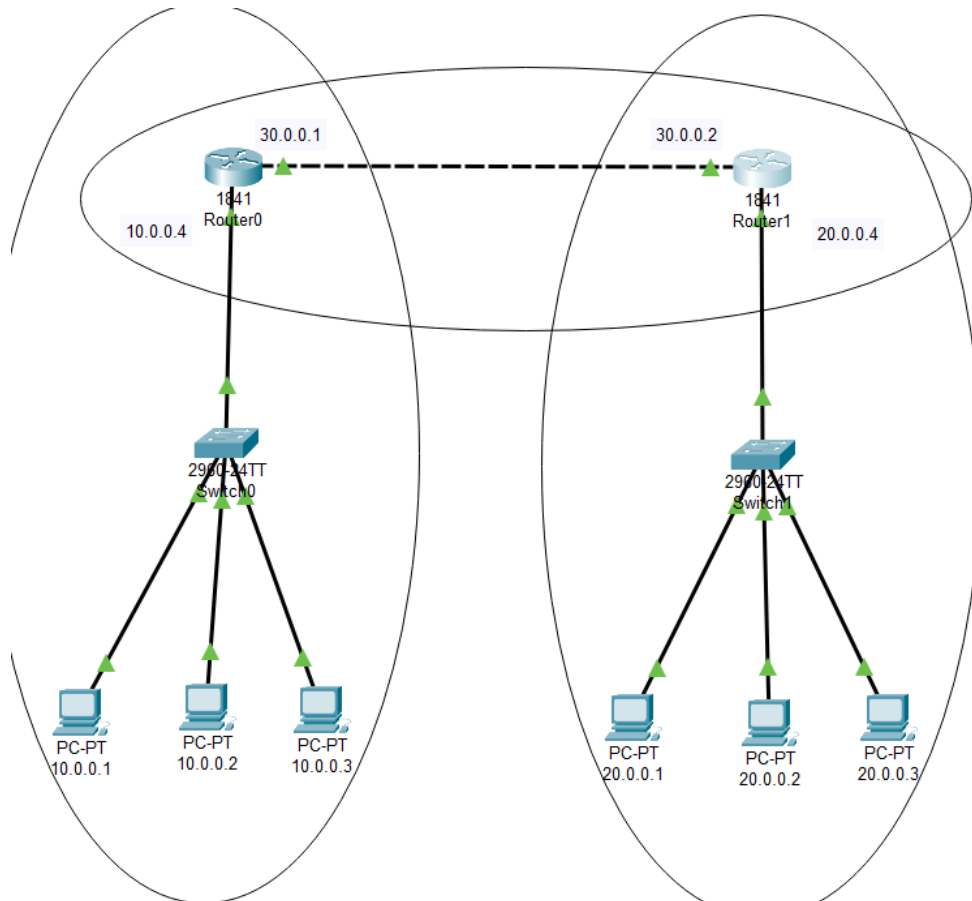
```
Router(config-if) #
Router(config-if) #exit
Router(config) #router rip
Router(config-router) #network 20.0.0.0
Router(config-router) #network 30.0.0.0
Router(config-router) #
Router(config-router) #
Router(config-router) #end
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #router rip
Router(config-router) #
```

Top

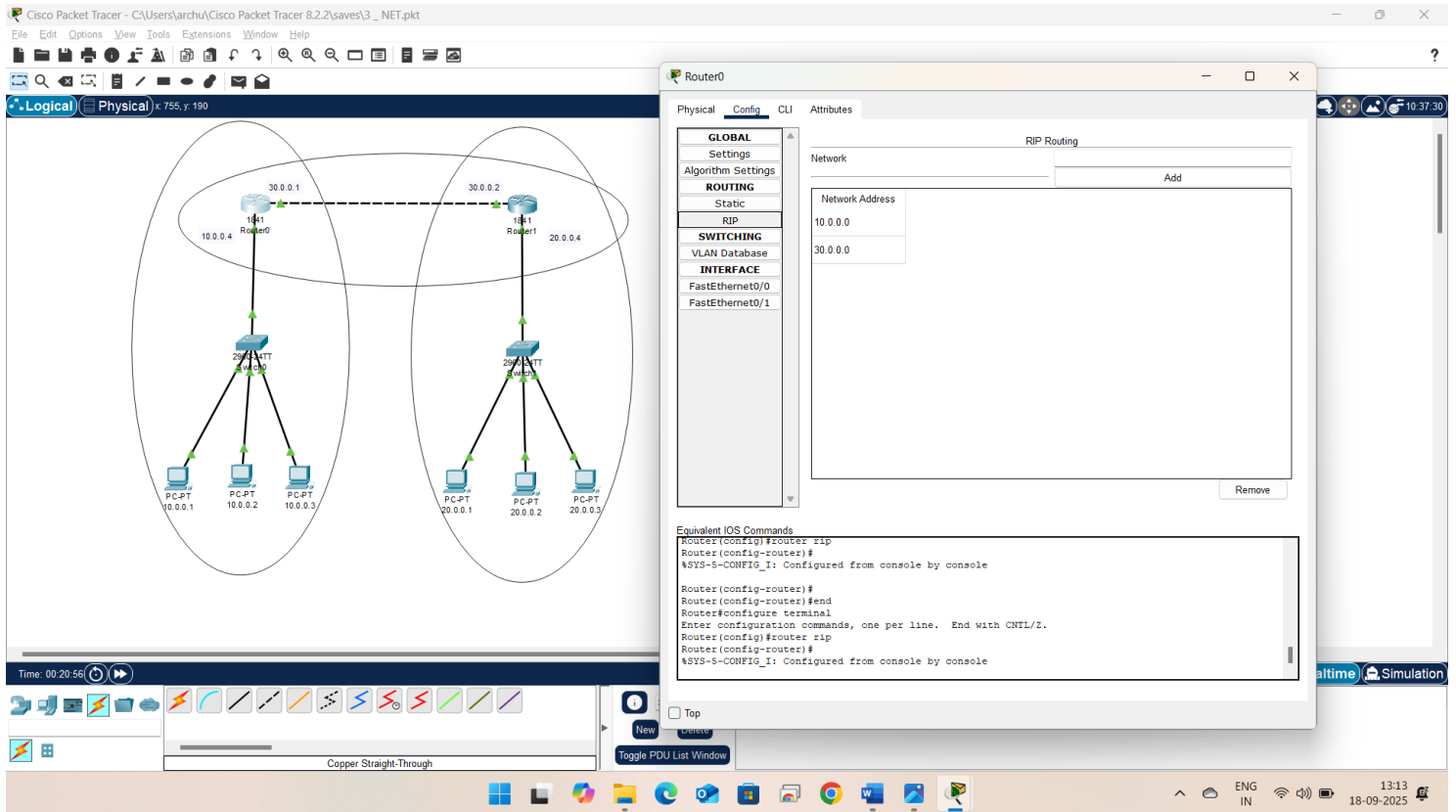


Date: 16/09/2025

2. Connect the three different networks based on the calculated IP addresses and subnet using a packet tracer.



Date: 16/09/2025



The screenshot displays the Cisco Packet Tracer interface. On the left, a network topology is shown with two routers, Router0 and Router1, connected via their serial interfaces. Router0 is configured with IP 30.0.0.1 and Router1 with IP 30.0.0.2. Both routers are connected to a central switch (2960-24TT) which is then connected to three PCs (10.0.0.1, 10.0.0.2, 10.0.0.3). The right window shows the configuration for Router0, specifically the RIP Routing section. The configuration includes the following commands:

```

Router(config)#router rip
Router(config-router)#
$SYS-S-CONFIG_I: Configured from console by console

Router(config-router)#
Router(config-router)#end
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router rip
Router(config-router)#
$SYS-S-CONFIG_I: Configured from console by console
  
```

