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1BM18CS046

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CN Lab 2

Procedure:

1. Two generic computers are placed alongside a router. They are connected with copper cross over wires as the devices are on the same level.
2. IP addresses (fast ethernet) and default gateway addresses are configured specifically, for each computer.
3. The router's terminal is accessed and an interface for each connection and With the specified gateway addresses the no shut command is used to establish a connection.
4. Using the terminals on the computers, we can ping the other computers using their IP Address.

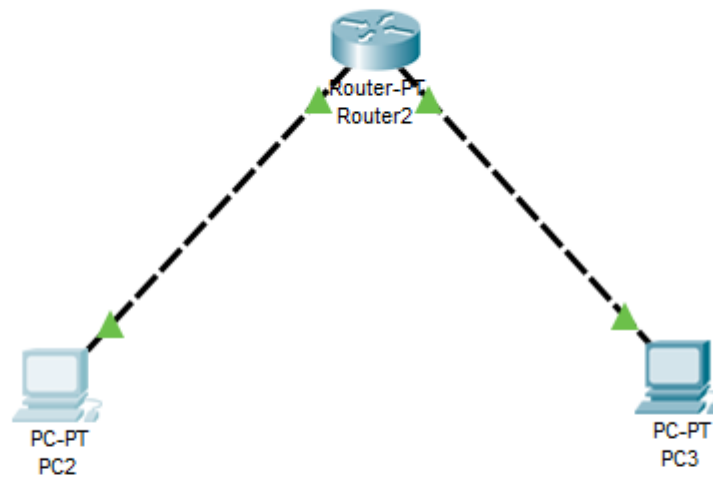
Observation:


After configuring the devices, a connection is established from the router's Side using the command line interface. The show ip route command shows that the computers are connected. Opening up the terminal on the computer, we can ping another connected computer's IP address to see whether there is a response from the sent packet. The initial attempt will be a time out but on future attempts packets would be successfully retrieved since the computer will be found on the network.

Outcome:

In today's lab, I understood how hubs and switches work along with their differences, and in which setups and environments they are better/worse in. I also understood the working of routers, its configuration and its communication with end network devices and the use of pinging to test connections in a network and make sure all devices are connected properly and can communicate properly.

Screenshots:



 Router2

Physical Config CLI Attributes

IOS Command Line Interface

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface fa0/0
Router(config-if)#ip address 10.1.1.1 255.0.0.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0,
changed state to up
exit
Router(config)#interface fal/0
Router(config-if)#ip address 20.1.1.1 255.0.0.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0,
changed state to up
exit
Router(config)#
```

Ctrl+F6 to exit CLI focus

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