

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 address (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 address the no shutdown 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.

Outcomes.

- * configuration of router as it is a Layer 3 device.
- * IP address for the router is same as the default gateway.
- * pinging to test connections in a network and make sure all devices are connected properly.