

IT1080C Computer Networking

Packet Tracer Lab 4

Create a local area network in Packet Tracer.

In this lab, create a local area network composed of five departments plus a DMZ. Assign each LAN private IP address range in the 192.168.x.x range with a CIDR of 24 (subnet mask 255.255.255.0).

In Packet Tracer, create a local area network with six switches connected to a single router.

1. Use six Switch 2950-24 (24 interfaces) switches
2. Use PT-Router-Empty and add six 1CGE (Gigabit Ethernet) modules
3. Add two PC-PTs to each department and attach a Server-PT on the DMZ

NOTE: Annotate all configurations on the network diagram.

Annotate the subnet private IP address and CIDR on the network diagram.

- a) DMZ 192.168.0.0/24
- b) Exec Staff 192.168.1.0/24
- c) Human Relations 192.168.2.0/24
- d) Finance & Accounting 192.168.3.0/24
- e) Manufacturing 192.168.4.0/24
- f) Sales 192.168.5.0/24

Annotate the IP address for each host on the network diagram as shown in the figure below.

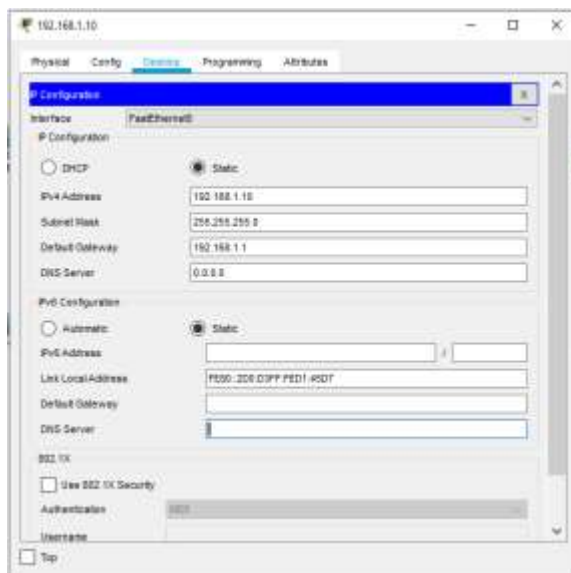


Configuring devices:

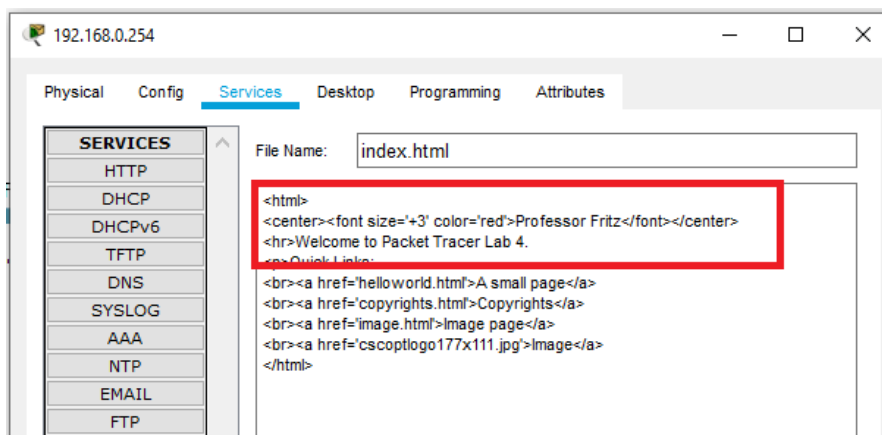
1. Assign the first available IP address from each subnet to the default gateway.

Port	Link	IP Address	IPv6 Address	MAC Address
GigabitEthernet0/0	Up	192.168.0.1/24	<not set>	0090.21AA.68D6
GigabitEthernet1/0	Up	192.168.1.1/24	<not set>	0090.0CC2.6160
GigabitEthernet2/0	Up	192.168.2.1/24	<not set>	0001.43CD.2535
GigabitEthernet3/0	Up	192.168.3.1/24	<not set>	0090.21CA.12D6
GigabitEthernet4/0	Up	192.168.4.1/24	<not set>	0002.1686.2EA1
GigabitEthernet5/0	Up	192.168.5.1/24	<not set>	00E0.B097.B31B
Hostname: Router				
Physical Location: Intercity, Home City, Corporate Office, Main Wiring Closet				

2. Statically assign the IP address, subnet mask, and default gateway to each device.



3. Connect switches to the router using a Copper Straight-Through cable.
4. Connect each device to its switch using a Copper Straight-Through cable.
5. Modify the index.html page to reflect your name and a personalized greeting.



Test to ensure each device can communicate on the network.

Example of the completed network diagram.

