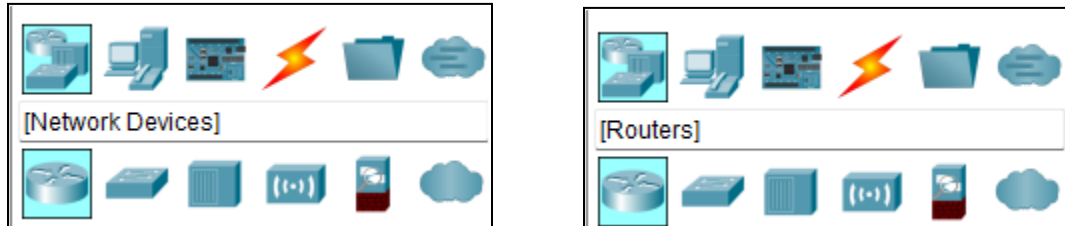


Title: Set up a small network in packet tracer

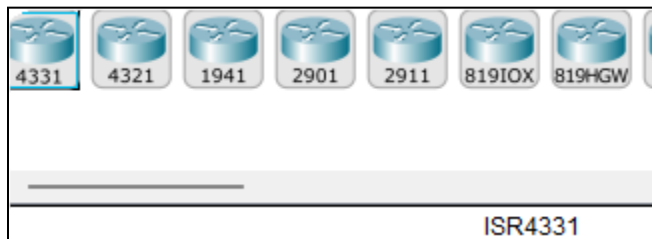
Date: 08/13/2025

Author: Daysean Mensah

Add a router: Click on network devices bottom left

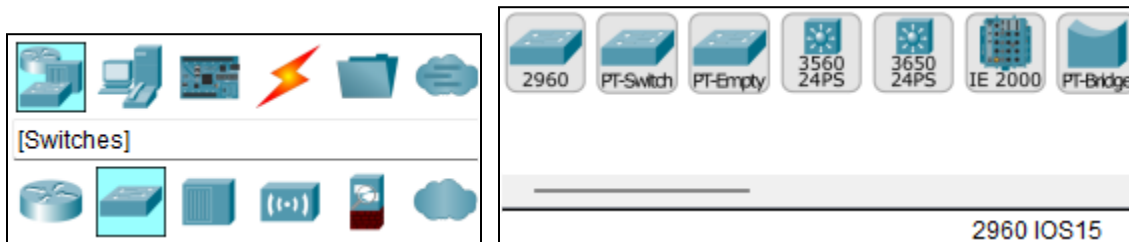


Routers:



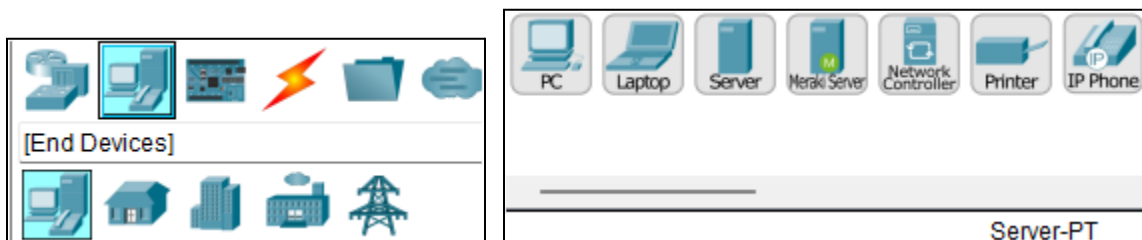
- Drag and drop a router(eg **4331**) into the white space

Add a switch: Click on network devices bottom left and click on switch



- Drag and drop a switch (eg: **2960**) into the whitespace:

Add a server: click on End Devices bottom left

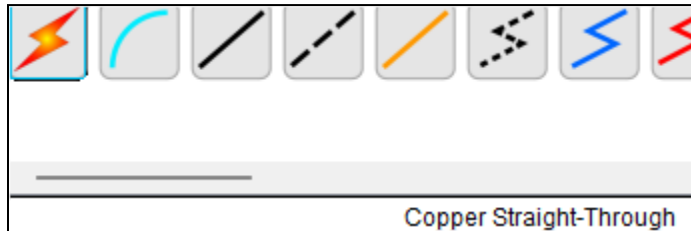


- Drag and drop server(**Server-PT**) into the whitespace:

Add a PC: click on End Devices drag and drop PC into the white space



Connect: click on lighting bold bottom left: click on the black string cable



- Connect the **Router** to the **switch** using a copper straight-through cable. Select copper straight through cable again
 - Move your cursor into the white space and click on **Router:** & select **GigabitEthernet0/0/0** & click on the switch select **FastEthernet0/1**
- Connect the **PC** to the **switch** using a copper straight-through cable. Select copper straight through cable again
 - Move your cursor into the white space and click on **PC:** & select **FastEthernet0** > then click on switch and select **FastEthernet0/2**
- Connect the **server** to the **switch** using a copper straight-through cable
 - Move your cursor into the whitespace & click on the server.
 - Click on **FastEthernet0** > then click on the switch select **FastEthernet0/3**

Click on the router > CLI

If you will see “Would you like to enter the initial configuration dialog”. TYPE **no**. Then press enter

show ip interface brief

- Show interface status, ip etc

Bring GigabitEthernet0/0/0 interface up and assign an IP: G0/0/0 is shortcut

enable

(you will see router#)

configure terminal

(you will see Router (config)#)

interface GigabitEthernet0/0/0

(you will see Router (config-if)#)

no shutdown

(brings interface up)

- If you see log messages press enter

ip address 192.168.1.1 255.255.255.0

(assign the router an IP)

Configure a DHCP pool:

ip dhcp pool <POOL_NAME>

Example: ip dhcp pool LAN_Pool

network <NETWORK_ADDRESS> <SUBNET_MASK>

Example: network 192.168.1.0 255.255.255.0

default-router <DEFAULT_GATEWAY_IP>

Example: default-router 192.168.1.1

dns-server <DNS_SERVER_IP1> <DNS_SERVER_IP2>

Example: dns-server 192.168.1.254

- 192.168.1.254 is the last IP in the dhcp pool

exit

show ip interface brief

(verify ip address)

Before you save the configuration lets verify that the dhcp is working:

Click on the PC > IP config > click on DHCP

- Then you should see in IP address beginning with 192.168.1 & a DHCP request successful message

Now you can save the configuration: close the IP configuration click X > click on router

Type: **write memory**

Final view

