

192.168.2.1

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address: 192.168.2.1

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.2.2

DNS Server:

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::203:E4FF:FE00:A110

IPv6 Gateway:

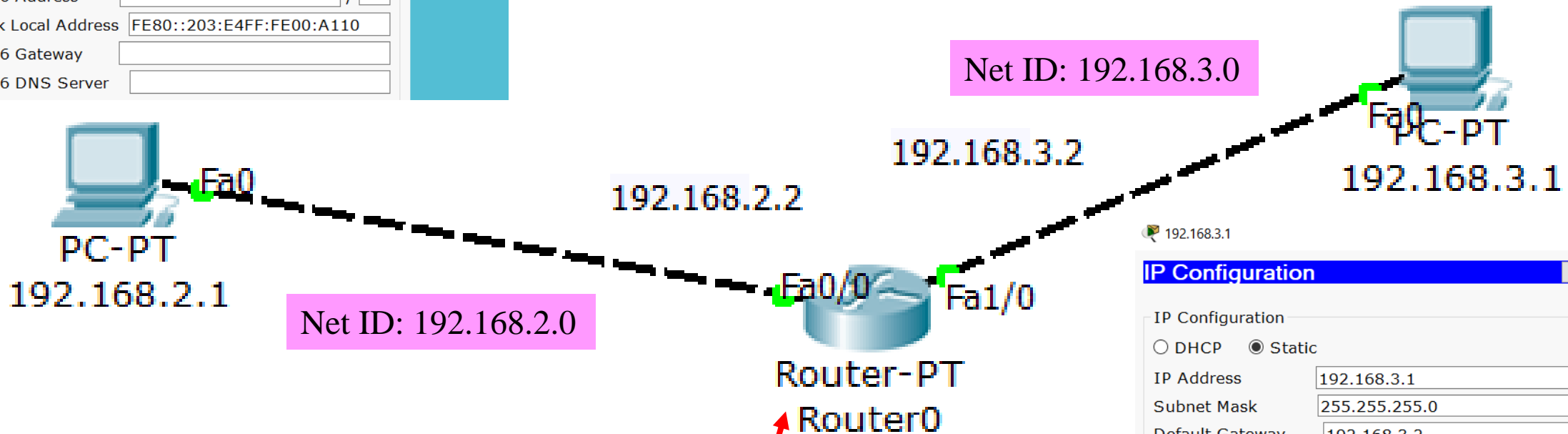
IPv6 DNS Server:

Web Browser

Cisco IP Communicator

Expt-2

Packet through a router



192.168.3.1

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address: 192.168.3.1

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.3.2

DNS Server:

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::2E0:A3FF:FE4D:54E5

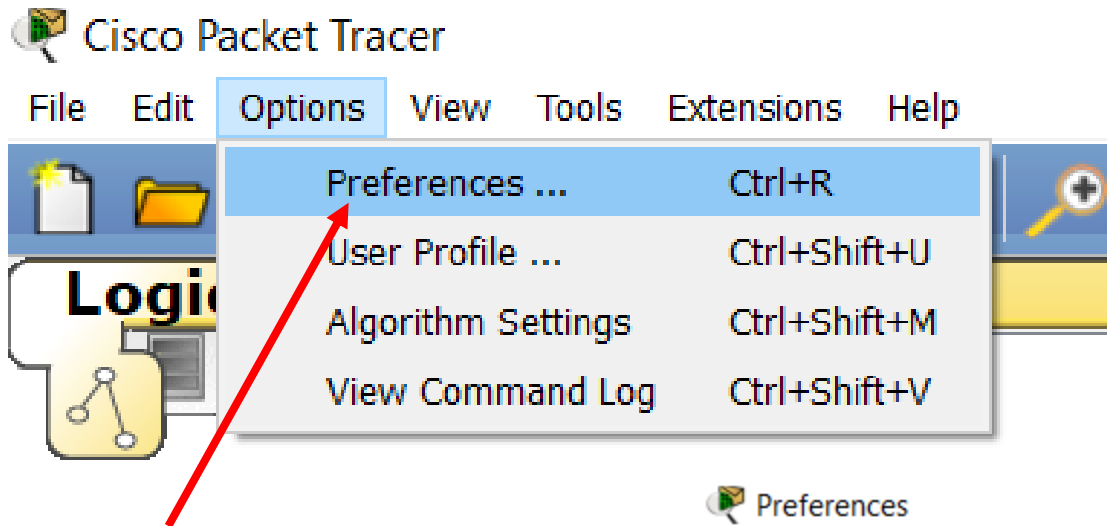
IPv6 Gateway:

IPv6 DNS Server:

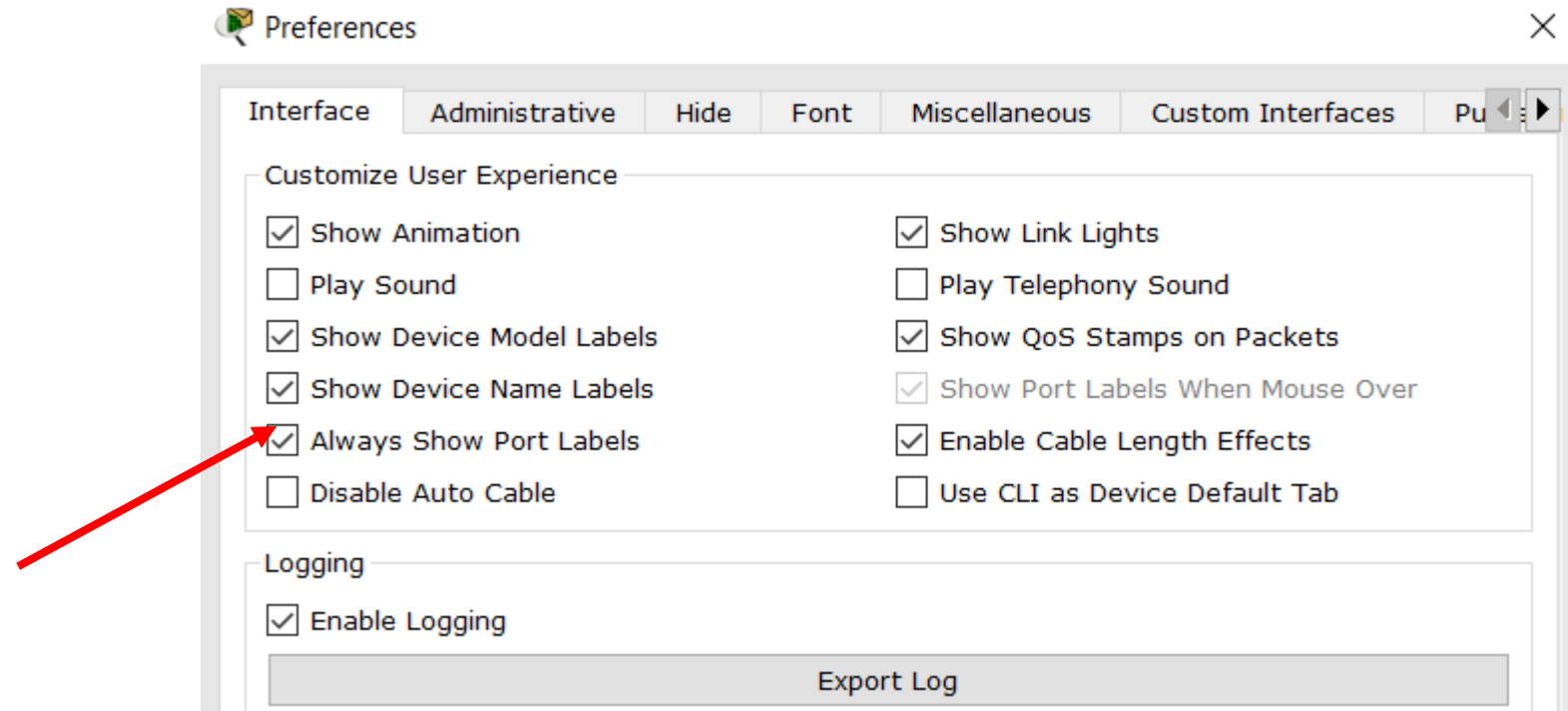
Web Browser

Cisco IP Communicator

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Port id of router for example **fa0/0**, **fa0/1** etc. will be visualized



Click on the router, select config, put IP and subnet mask on fast Ethernet 0/0 and 0/1.

The network diagram shows a central Router-PT (Router0) connected to two PCs. PC-PT (192.168.2.1) is connected to Router0 Fa0/0 (192.168.2.2). PC-PT (192.168.3.1) is connected to Router0 Fa1/0 (192.168.3.2).

Two configuration windows for Router0 are shown below the diagram. The left window is for FastEthernet0/0 and the right window is for FastEthernet1/0. Both windows have tabs for Physical, Config, and CLI. The Config tab is selected in both.

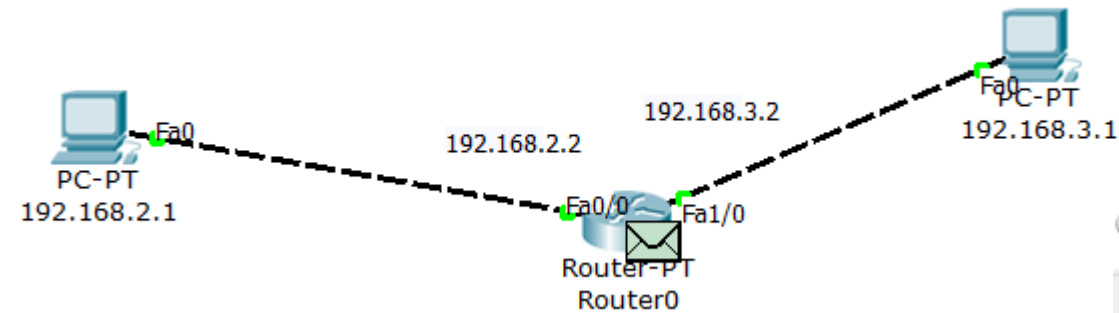
FastEthernet0/0 Configuration:

- Port Status: ☒ On
- Bandwidth: ☒ 100 Mbps
- Duplex: ☒ Auto
- MAC Address: 000C.851A.4781
- IP Address: 192.168.2.2
- Subnet Mask: 255.255.255.0
- Tx Ring Limit: 10

FastEthernet1/0 Configuration:

- Port Status: ☒ On
- Bandwidth: ☒ 100 Mbps
- Duplex: ☒ Auto
- MAC Address: 0000.0C4A.4B3C
- IP Address: 192.168.3.2
- Subnet Mask: 255.255.255.0
- Tx Ring Limit: 10

Verify by simulation and ping.



192.168.2.1

Physical

Config

Desktop

Custom Interface

Command Prompt

Packet Tracer PC Command Line 1.0

PC>ping 192.168.3.1

Pinging 192.168.3.1 with 32 bytes of data:

Reply from 192.168.3.1: bytes=32 time=1ms TTL=127

Reply from 192.168.3.1: bytes=32 time=0ms TTL=127

Reply from 192.168.3.1: bytes=32 time=0ms TTL=127

Reply from 192.168.3.1: bytes=32 time=0ms TTL=127

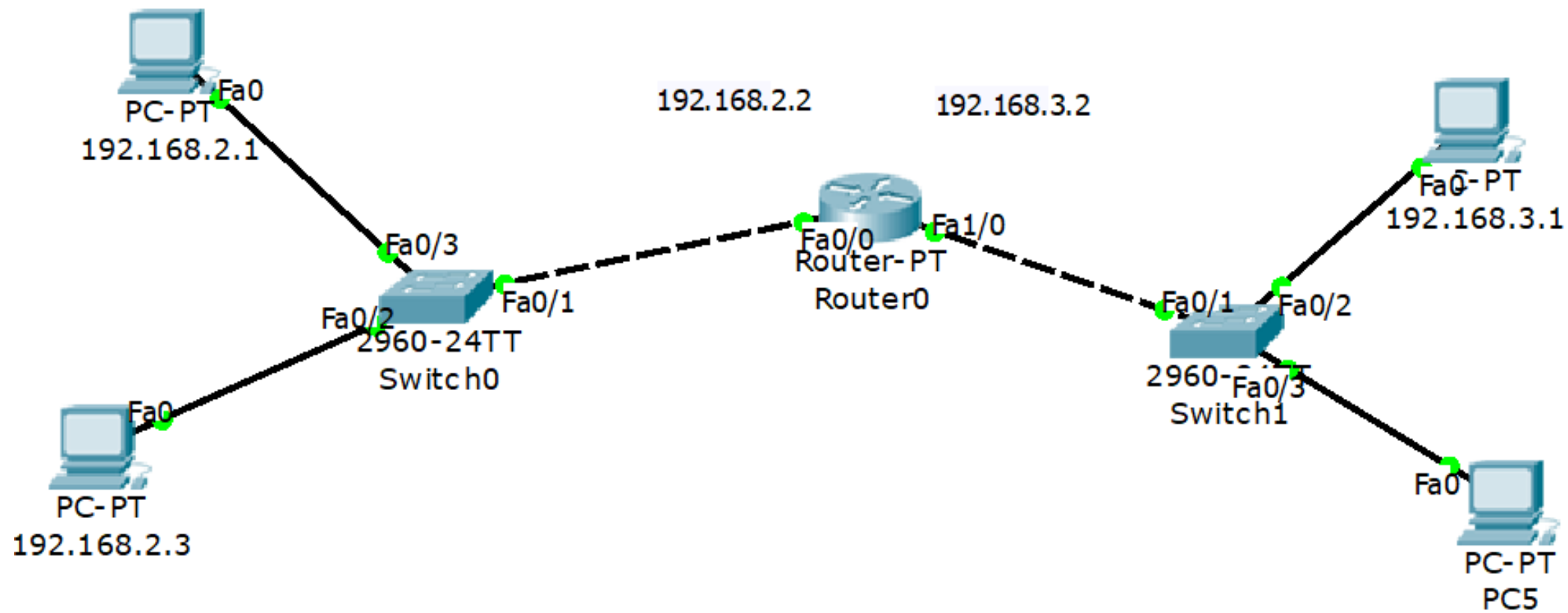
Ping statistics for 192.168.3.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 1ms, Average = 0ms

PC>



Let us insert an ethernet card to the router

Router0

Physical

Config

CLI

MODULES

PT-ROUTER-NM-1AM

PT-ROUTER-NM-1CE

PT-ROUTER-NM-1CF

PT-ROUTER-NM-1CG

PT-ROUTER-NM-1FF

PT-ROUTER-NM-1FG

PT-ROUTER-NM-1S

PT-ROUTER-NM-1SS

Zoom In



Router0

Physical

Config

CLI

MODULES

PT-ROUTER-NM-1AM

PT-ROUTER-NM-1CE

PT-ROUTER-NM-1CF

PT-ROUTER-NM-1CG

PT-ROUTER-NM-1FF

PT-ROUTER-NM-1FG

PT-ROUTER-NM-1S

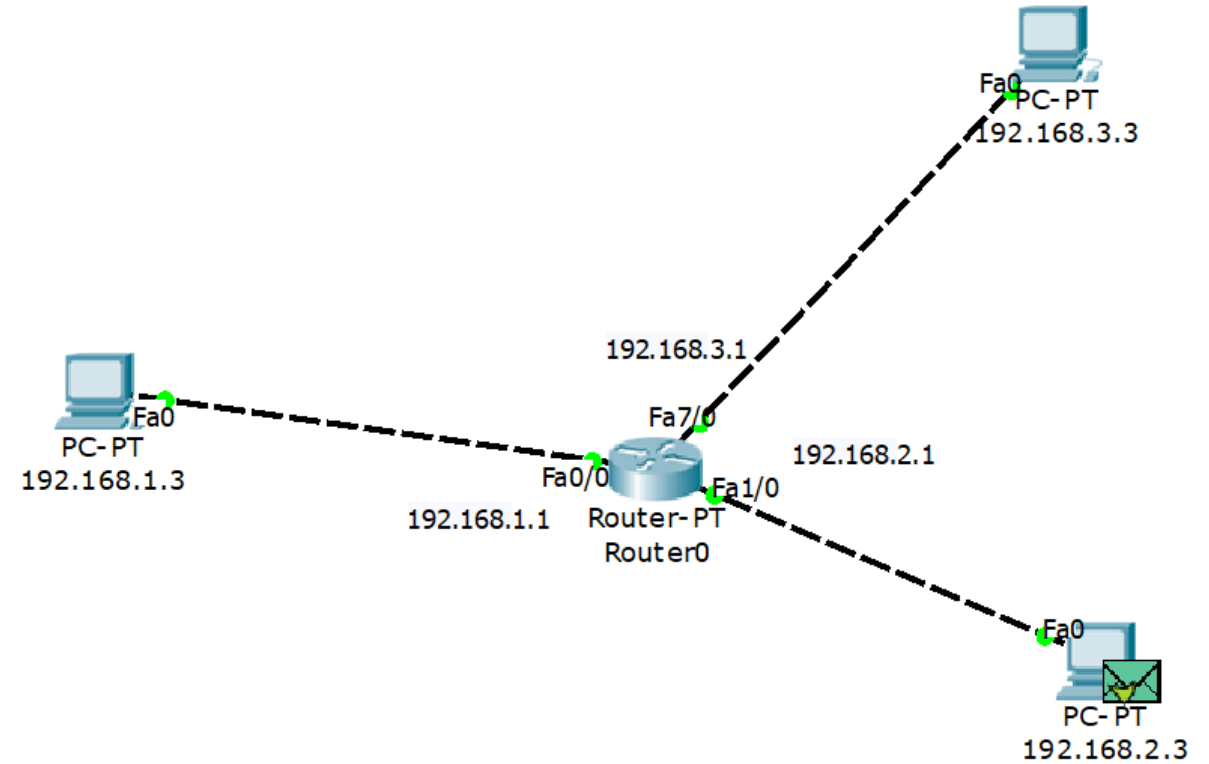
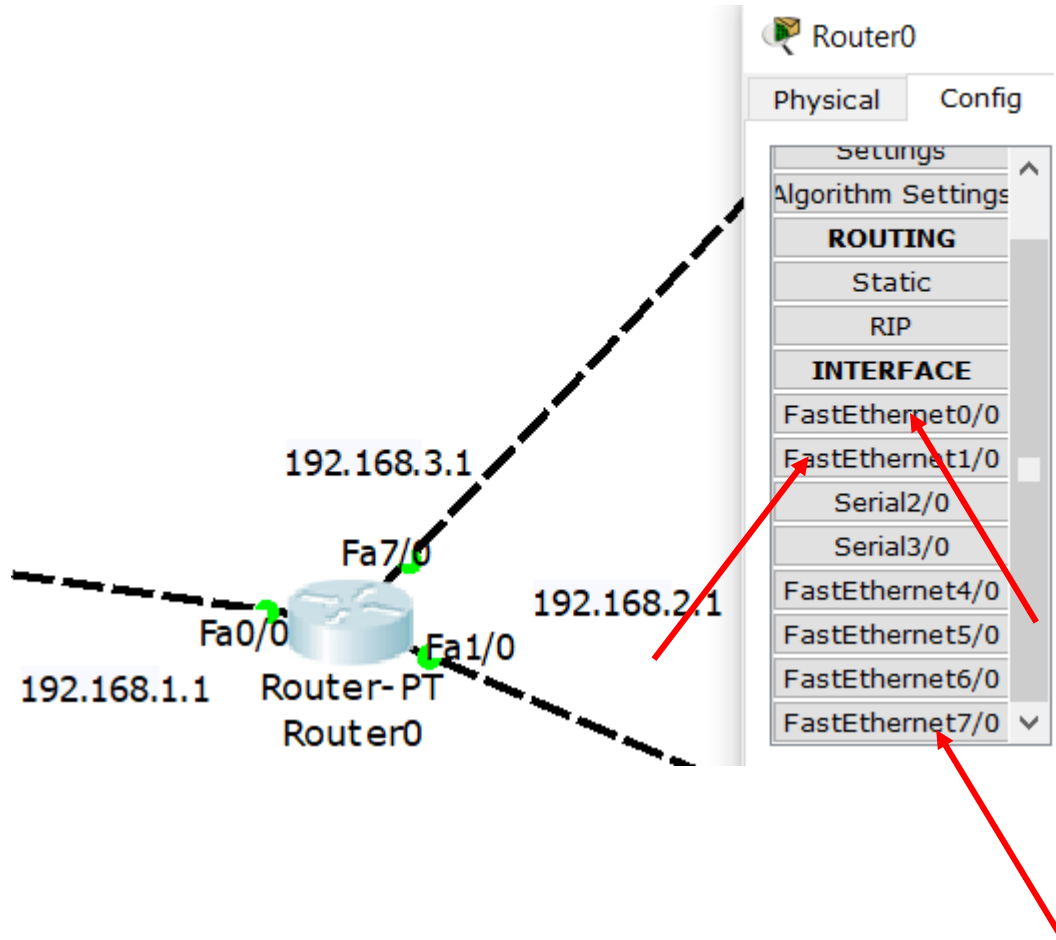
PT-ROUTER-NM-1SS

Zoom In



We will get a pair of Ethernet port 6/0 and 7/0

You can use ethernet ports: 0/0, 1/0, 6/0 and 7/0



Verify the circuit using ping and ICMP packet.