

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:

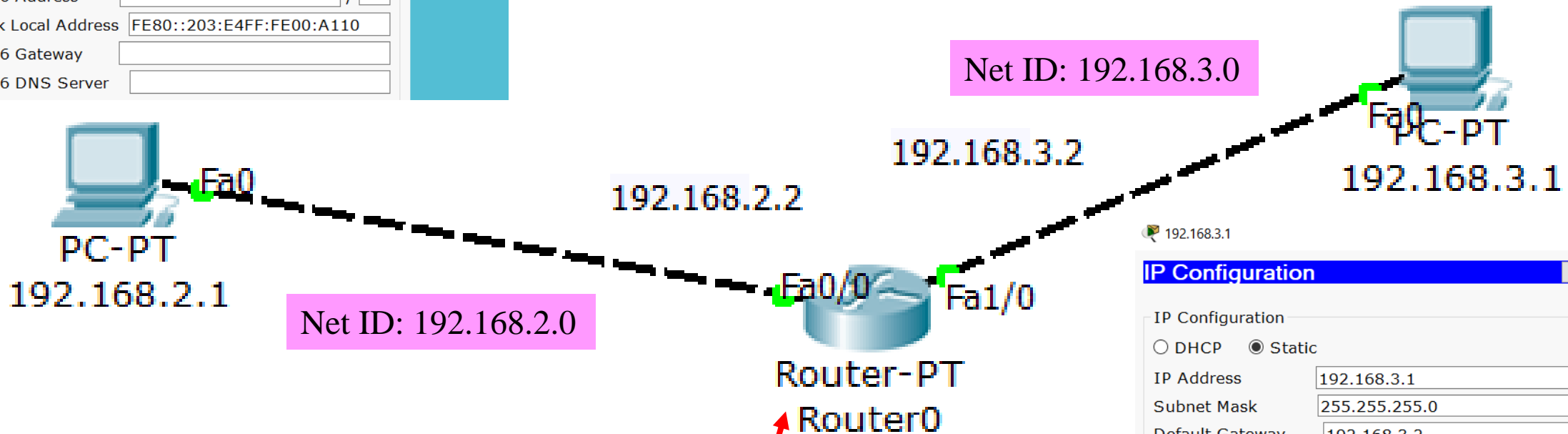
IPv6 DNS Server:

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

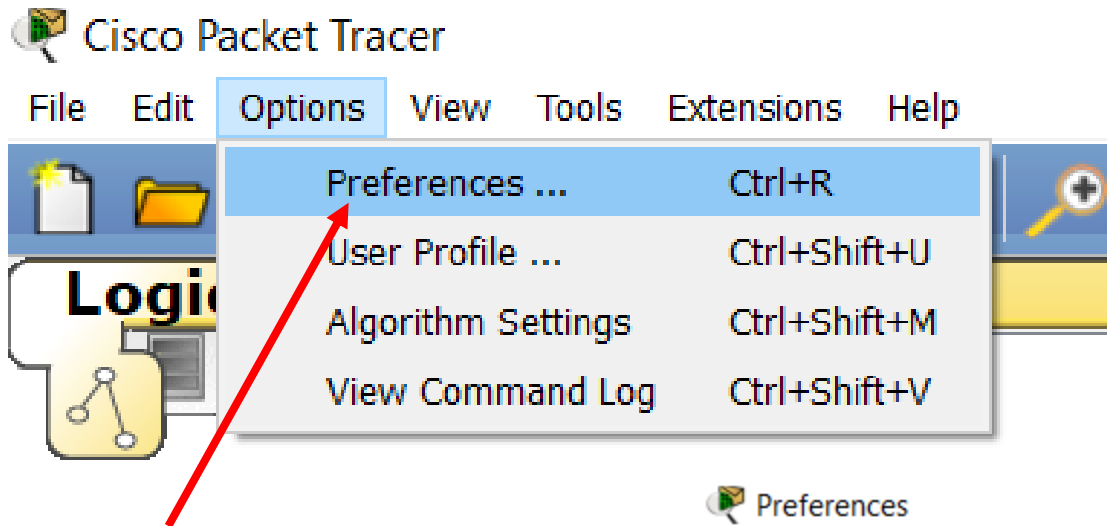
IPv6 Gateway:

IPv6 DNS Server:

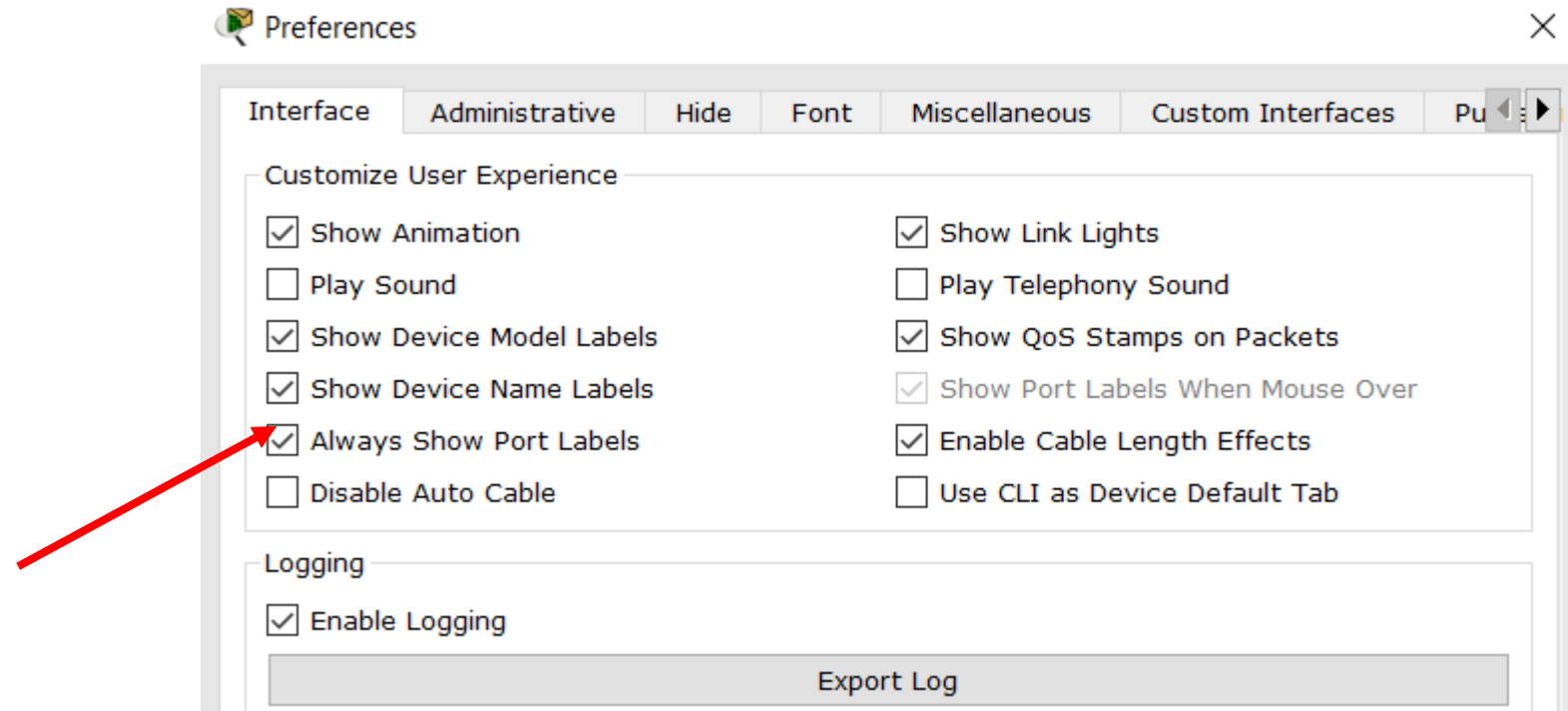
Web Browser

Cisco IP Communicator

1



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). Below the diagram are two configuration windows for Router0.

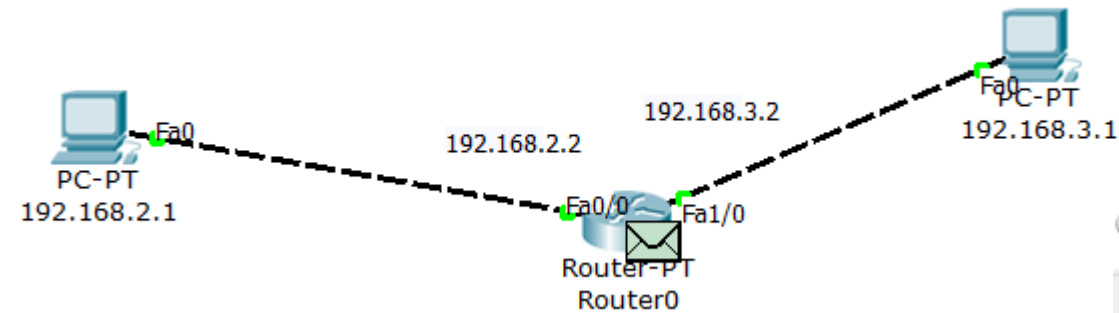
Router0 - FastEthernet0/0 Configuration:

FastEthernet0/0	
Port Status	<input checked="" type="checkbox"/> On
Bandwidth	<input checked="" type="checkbox"/> Auto
<input type="radio"/> 10 Mbps <input checked="" type="radio"/> 100 Mbps	
Duplex	<input checked="" type="checkbox"/> Auto
<input checked="" type="radio"/> Full Duplex <input type="radio"/> Half Duplex	
MAC Address	000C.851A.4781
IP Address	192.168.2.2
Subnet Mask	255.255.255.0
Tx Ring Limit	10

Router0 - FastEthernet1/0 Configuration:

FastEthernet1/0	
Port Status	<input checked="" type="checkbox"/> On
Bandwidth	<input checked="" type="checkbox"/> Auto
<input type="radio"/> 10 Mbps <input checked="" type="radio"/> 100 Mbps	
Duplex	<input checked="" type="checkbox"/> Auto
<input checked="" type="radio"/> Full Duplex <input type="radio"/> Half Duplex	
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

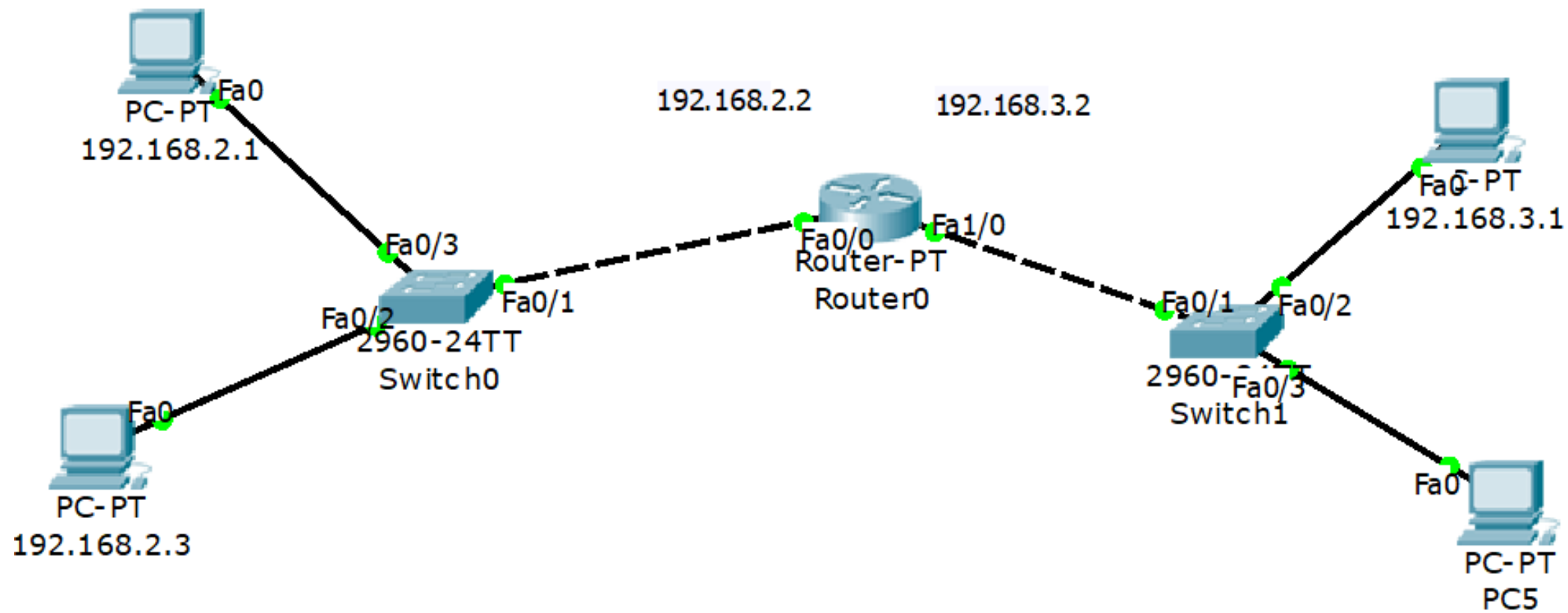
Ping statistics for 192.168.3.1:

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

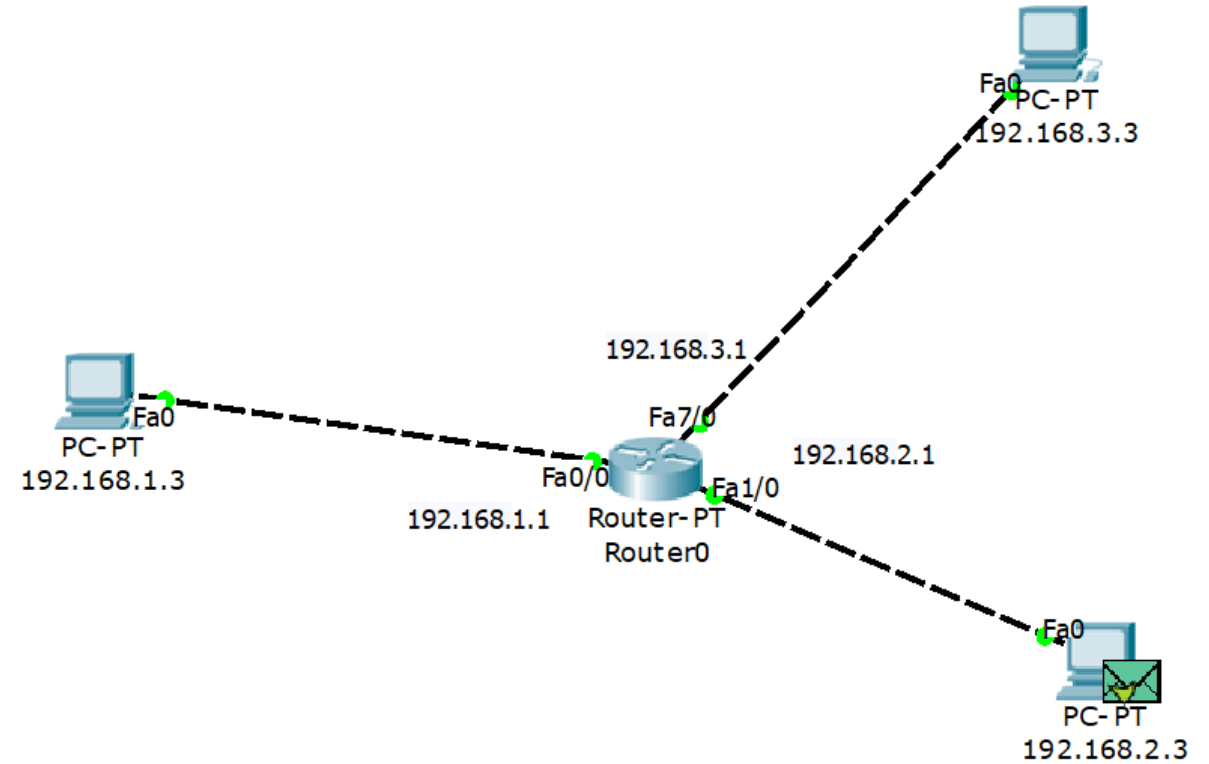
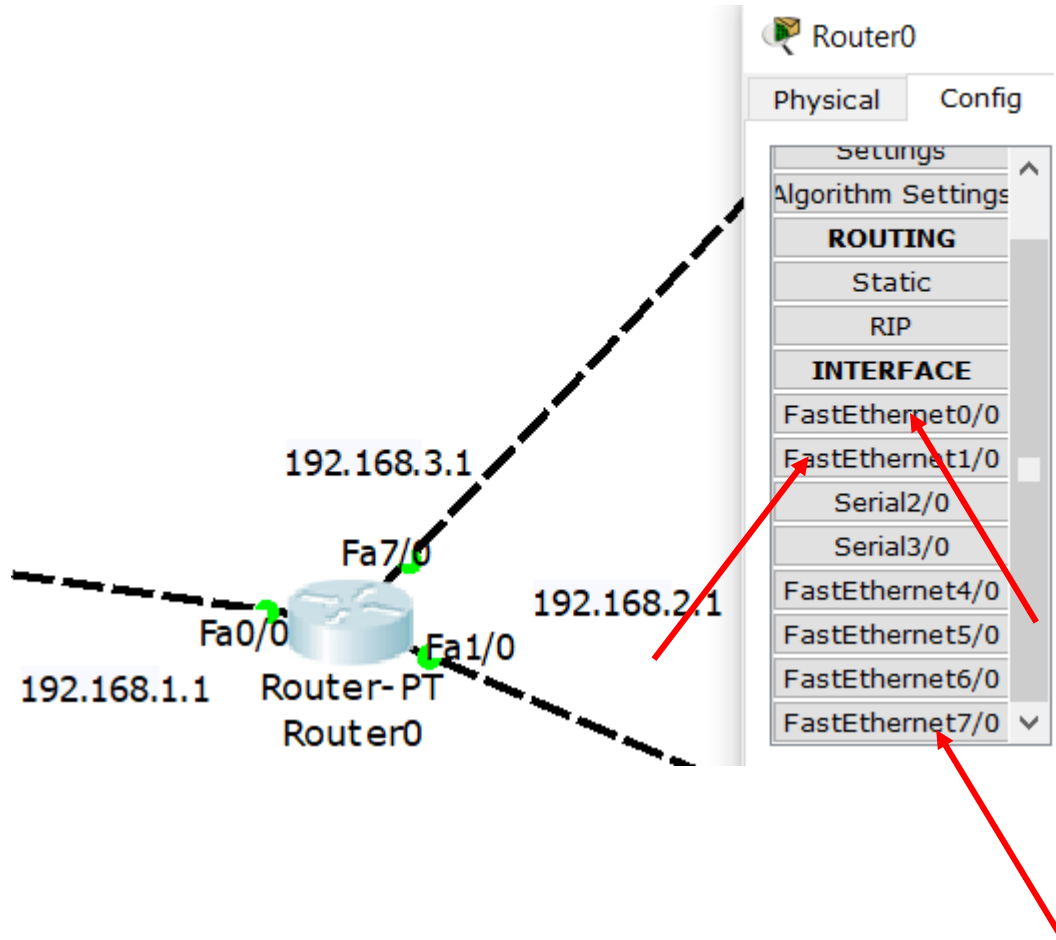
PT-ROUTER-NM-1SS

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.