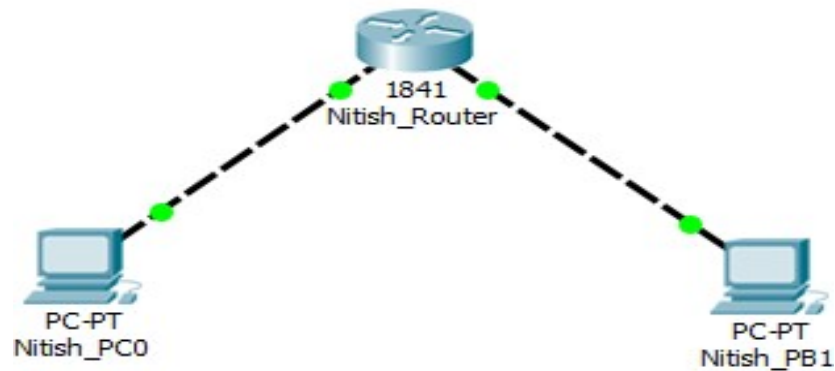


Q. Simple Network configuration → Connect two PC through a Router, PC0 should be able to PC1 and vice-versa.

Steps:

#1. Add end devices and router and use connections to join them



#2. Add static gateway 192.168.10.10, ipadress 192.168.10.12, subnet mask 255.255.255.0 to PC0

Nitish_PC0 Global Settings

Display Name: Nitish_PC0

Gateway/DNS IPv4

☐ DHCP

☒ Static

Gateway: 192.168.10.10

DNS Server:

Gateway/DNS IPv6

☐ DHCP

☐ Auto Config

☒ Static

IPv6 Gateway:

IPv6 DNS Server:

Nitish_PC0 FastEthernet0

Port Status: ☒ On

Bandwidth: ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex: ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address: 00D0.58BC.A123

IP Configuration

☐ DHCP

☒ Static

IP Address: 192.168.10.12

Subnet Mask: 255.255.255.0

IPv6 Configuration

☐ DHCP

☐ Auto Config

☒ Static

IPv6 Address:

Link Local Address: FE80::2D0:58FF:FEBC:A123

#3. Add static gateway 192.168.12.12, ipadress 192.168.12.25, subnet mask 255.255.255.0 to PC1

Nitish_PB1

Physical Config Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Bluetooth

Global Settings

Display Name: Nitish_PB1

Gateway/DNS IPv4

☐ DHCP

☒ Static

Gateway: 192.168.12.12

DNS Server:

Gateway/DNS IPv6

☐ DHCP

☐ Auto Config

☒ Static

IPv6 Gateway:

IPv6 DNS Server:

Nitish_PB1

Physical Config Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Bluetooth

FastEthernet0

Port Status: ☒ On

Bandwidth: ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex: ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address: 0040.0B7A.C526

IP Configuration

☐ DHCP

☒ Static

IP Address: 192.168.12.25

Subnet Mask: 255.255.255.0

IPv6 Configuration

☐ DHCP

☐ Auto Config

☒ Static

IPv6 Address:

Link Local Address: FE80::240:BFF:FE7A:C526

#4. Configure the router set FastEthernet0/0 – IP Address=192.168.10.10(gateway of PC0), subnet mask 255.255.255.0 FastEthernet0/1 – IP Address=192.168.12.12(gateway of PC1), subnet mask 255.255.255.0

Nitish_Router

Physical Config CLI Attributes

GLOBAL

ROUTING

SWITCHING

INTERFACE

FastEthernet0/0

FastEthernet0/1

Serial0/0/0

Serial0/0/1

Ethernet0/1/0

FastEthernet0/0

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0060.47E6.BC01

IP Configuration

IP Address 192.168.10.10

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Nitish_Router

Physical Config CLI Attributes

GLOBAL

ROUTING

SWITCHING

INTERFACE

FastEthernet0/0

FastEthernet0/1

Serial0/0/0

Serial0/0/1

Ethernet0/1/0

FastEthernet0/1

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0060.47E6.BC02

IP Configuration

IP Address 192.168.12.12

Subnet Mask 255.255.255.0

Tx Ring Limit 10

#5.PING PC1 from PC0 and vice-versa to test connections

Nitish_PC0

```
Physical Config Desktop Programming Attributes
Command Prompt

C:\>ping -t 192.168.12.25

Pinging 192.168.12.25 with 32 bytes of data:

Reply from 192.168.12.25: bytes=32 time<1ms TTL=127
Reply from 192.168.12.25: bytes=32 time<1ms TTL=127
Reply from 192.168.12.25: bytes=32 time<1ms TTL=127
Reply from 192.168.12.25: bytes=32 time<1ms TTL=127
Reply from 192.168.12.25: bytes=32 time<1ms TTL=127
Reply from 192.168.12.25: bytes=32 time<1ms TTL=127
Reply from 192.168.12.25: bytes=32 time<1ms TTL=127
Reply from 192.168.12.25: bytes=32 time<1ms TTL=127
Reply from 192.168.12.25: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.12.25:
    Packets: Sent = 9, Received = 9, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

Nitish_PB1

```
Physical Config Desktop Programming Attributes
Command Prompt

Packet Tracer PC Command Line 1.0
C:\>ping 192.168.10.12

Pinging 192.168.10.12 with 32 bytes of data:

Reply from 192.168.10.12: bytes=32 time=1ms TTL=127
Reply from 192.168.10.12: bytes=32 time<1ms TTL=127
Reply from 192.168.10.12: bytes=32 time<1ms TTL=127
Reply from 192.168.10.12: bytes=32 time=1ms TTL=127

Ping statistics for 192.168.10.12:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>|
```