

Cisco Packet Tracker

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Step 1: Creating the Topology:

I dragged 5 PCs, 1 network printer, and a 2960 switch into the workspace. I connected all devices using copper straight-through cables.

Step 2: Assigning IP Addresses:

I set IP addresses for each PC and the printer in the same subnet (192.168.1.0/24) to ensure proper LAN communication.

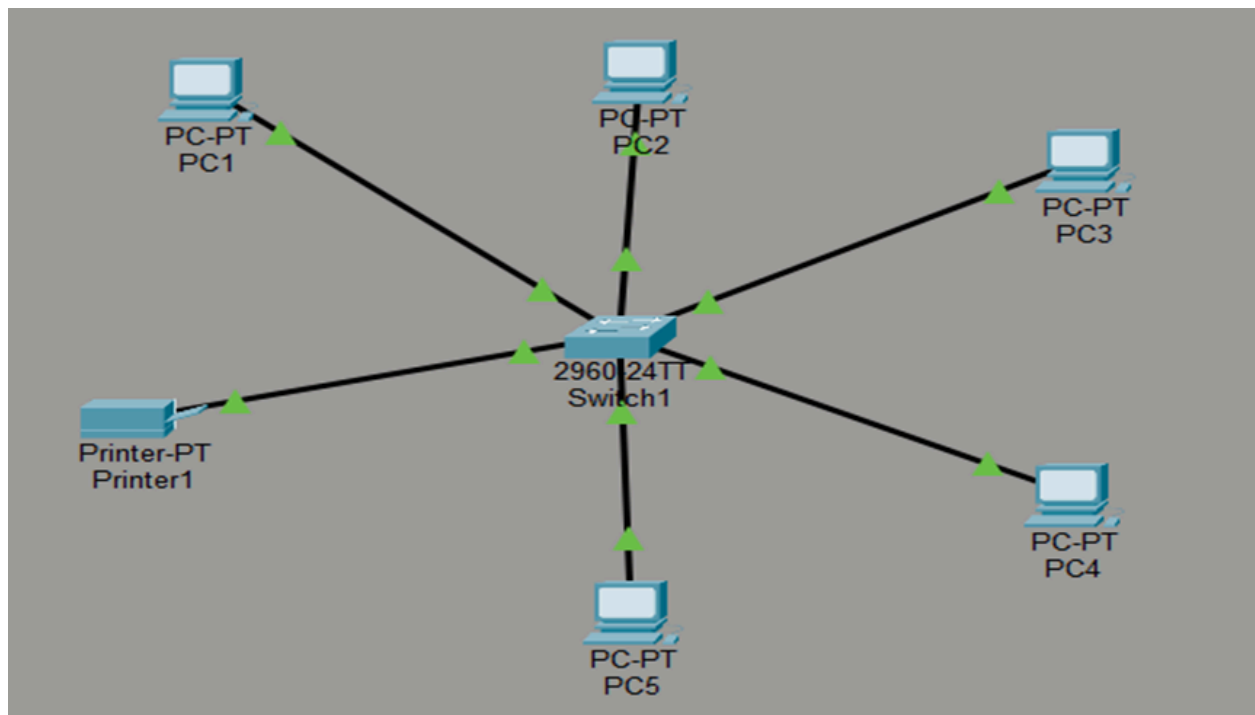
Step 3: Testing Connectivity:

Using the ping command from each PC, I verified that all PCs and the printer could communicate successfully.

Step 4: Configuring Printer Sharing:

I selected PC1 as the print server and installed the network printer using its IP (192.168.1.10). Then I installed the same printer on all other PCs.

ScreenShots:





PC3

Physical

Config

Desktop

Programming

Attributes

Command Prompt

Cisco Packet Tracer PC Command Line 1.0

C:\>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time<1ms TTL=128

Reply from 192.168.1.1: bytes=32 time<1ms TTL=128

Reply from 192.168.1.1: bytes=32 time<1ms TTL=128

Reply from 192.168.1.1: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

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

C:\>ping 192.168.1.2

Pinging 192.168.1.2 with 32 bytes of data:

Reply from 192.168.1.2: bytes=32 time<1ms TTL=128

Reply from 192.168.1.2: bytes=32 time=2ms TTL=128

Reply from 192.168.1.2: bytes=32 time<1ms TTL=128

Reply from 192.168.1.2: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.1.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 2ms, Average = 0ms

C:\>ping 192.168.1.4

Pinging 192.168.1.4 with 32 bytes of data:

Reply from 192.168.1.4: bytes=32 time<1ms TTL=128

Reply from 192.168.1.4: bytes=32 time<1ms TTL=128

Reply from 192.168.1.4: bytes=32 time<1ms TTL=128

Reply from 192.168.1.4: bytes=32 time=13ms TTL=128

Ping statistics for 192.168.1.4:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 13ms, Average = 3ms

PC1

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☒ DHCP ☒ Static

IPv4 Address 192.168.1.1

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☒ Automatic ☒ Static

IPv6 Address

Link Local Address FE80:2D0:BAFF:FE26:684D

Default Gateway

DNS Server

802.1X

☒ Use 802.1X Security

Authentication MD5

Username

Password

PC2

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☒ DHCP ☒ Static

IPv4 Address 192.168.1.2

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☒ Automatic ☒ Static

IPv6 Address

Link Local Address FE80:201:57FF:FE92:940D

Default Gateway

DNS Server

802.1X

☒ Use 802.1X Security

Authentication MD5

Username

Password

PC3

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☒ DHCP ☒ Static

IPv4 Address 192.168.1.3

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☒ Automatic ☒ Static

IPv6 Address

Link Local Address FE80:260:2FFF:FE69:80C3

Default Gateway

DNS Server

802.1X

☒ Use 802.1X Security

Authentication MD5

Username

Password

PC4

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☒ DHCP ☒ Static

IPv4 Address 192.168.1.4

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☒ Automatic ☒ Static

IPv6 Address

Link Local Address FE80::2E0:F9FF:FE72:6066

Default Gateway

DNS Server

802.1X

☒ Use 802.1X Security

Authentication MD5

Username

Password

PC5

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☒ DHCP ☒ Static

IPv4 Address 192.168.1.5

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☒ Automatic ☒ Static

IPv6 Address

Link Local Address FE80::204:9AFF:FE96:6C0E

Default Gateway

DNS Server

802.1X

☒ Use 802.1X Security

Authentication MD5

Username

Password

Printer1

Physical Config Attributes

GLOBAL

Settings

INTERFACE

FastEthernet0

Global Settings

Display Name Printer1

Gateway/DNS IPv4

☒ DHCP ☒ Static

Default Gateway 192.168.1.10

DNS Server

Gateway/DNS IPv6

☒ Automatic ☒ Static

Default Gateway

DNS Server

Device Clock: 00:18:36 Mon Mar 1 1993 UTC

NTP

Server Ip: 192.168.1.10

Authentication

☒ Enable ☒ Disable

Password

PTP

Profile

☒ Enable ☒ Disable

Power