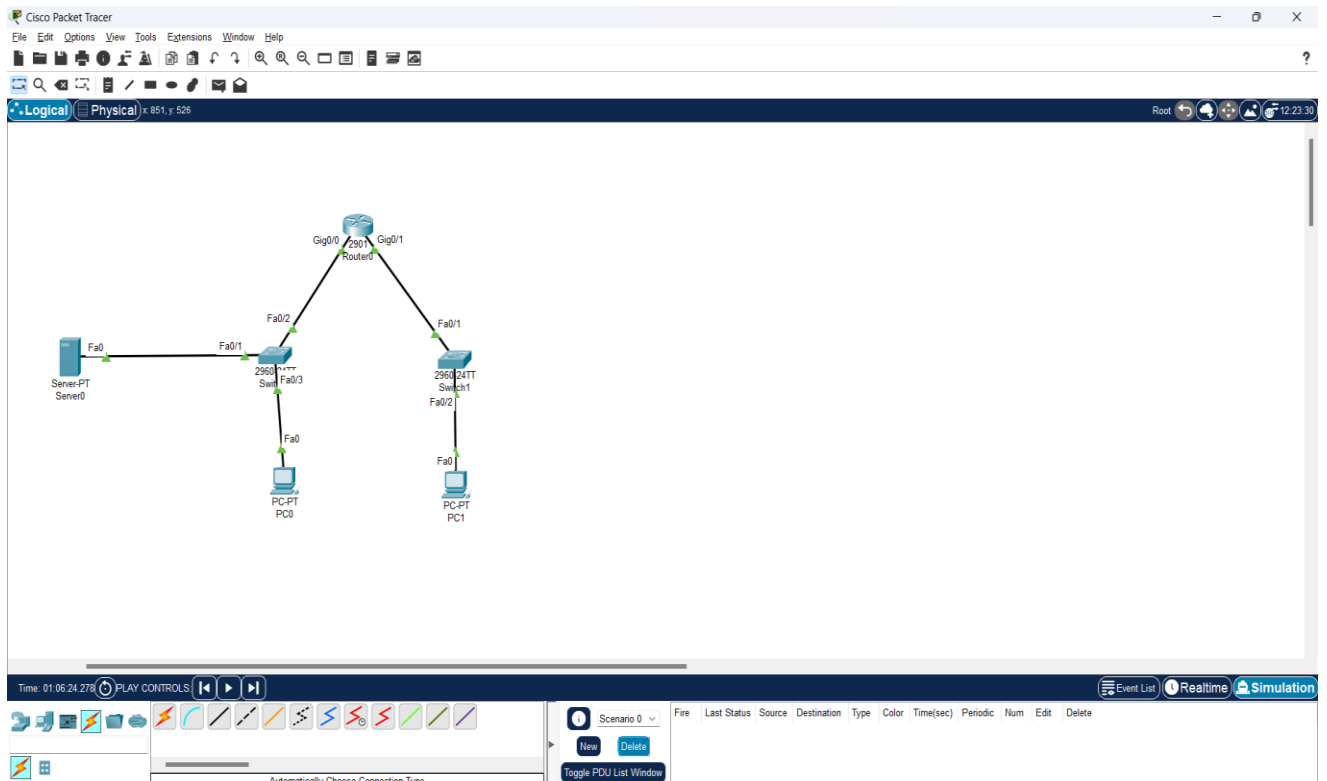


Executing the following networking commands like **ipconfig**, **tracert**, **telnet**, **ping**, **nslookup** and **netstat** in the command prompt with simple topology.



```
PC0
Physical Config Desktop Programming Attributes
Command Prompt
C:\>ipconfig

FastEthernet0 Connection:(default port)

Connection-specific DNS Suffix...:
Link-local IPv6 Address...: FE80::202:16FF:FE2D:76E9
IPv6 Address...: ::
IPv4 Address...: 192.168.1.2
Subnet Mask...: 255.255.255.0
Default Gateway...: 192.168.1.1

Bluetooth Connection:

Connection-specific DNS Suffix...:
Link-local IPv6 Address...: ::
IPv6 Address...: ::
IPv4 Address...: 0.0.0.0
Subnet Mask...: 0.0.0.0
Default Gateway...: 0.0.0.0

C:\>tracert 192.168.2.2

Tracing route to 192.168.2.2 over a maximum of 30 hops:

 1  0 ms  0 ms  0 ms  192.168.1.1
 2  *  0 ms  0 ms  192.168.2.2

Trace complete.

C:\>telnet 192.168.1.1 23
Trying 192.168.1.1 ...Open

User Access Verification

Password:
Router>show ip interface brief

Interface      IP-Address      OK? Method Status      Protocol
GigabitEthernet0/0  192.168.1.1    YES manual up          up
GigabitEthernet0/1  192.168.2.1    YES manual up          up
Vlan1          unassigned      YES unset  administratively down down
Router>exit

[Connection to 192.168.1.1 closed by foreign host]
```

PC0

Physical Config Desktop Programming Attributes

Command Prompt

```
Interface      IP-Address      OK? Method Status      Protocol
GigabitEthernet0/0  192.168.1.1    YES manual up          up
GigabitEthernet0/1  192.168.2.1    YES manual up          up
Vlan1          unassigned      YES unset  administratively down down
Router>exit

[Connection to 192.168.1.1 closed by foreign host]
C:\>ping 192.168.2.2

Pinging 192.168.2.2 with 32 bytes of data:

Reply from 192.168.2.2: bytes=32 time<1ms TTL=127
Reply from 192.168.2.2: bytes=32 time<1ms TTL=127
Reply from 192.168.2.2: bytes=32 time<1ms TTL=127
Reply from 192.168.2.2: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.2.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.2.2

Pinging 192.168.2.2 with 32 bytes of data:

Reply from 192.168.2.2: bytes=32 time<1ms TTL=127
Reply from 192.168.2.2: bytes=32 time<1ms TTL=127
Reply from 192.168.2.2: bytes=32 time<1ms TTL=127
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Ping statistics for 192.168.2.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>nslookup www.google.com

Server: [255.255.255.255]
Address: 255.255.255.255

Non-authoritative answer:
Name:   www.google.com
Address: 8.8.8.8

C:\>netstat

Active Connections

Proto Local Address Foreign Address State
```

Router0

Physical Config CLI Attributes

IOS Command Line Interface

```
Router>enable
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#line vty 0 4
Router(config-line)#password cisco
Router(config-line)#login
Router(config-line)#exit
Router(config)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console
wr
Building configuration...
[OK]
Router#wr
Building configuration...
[OK]
Router#

Router con0 is now available

Press RETURN to get started.
```

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