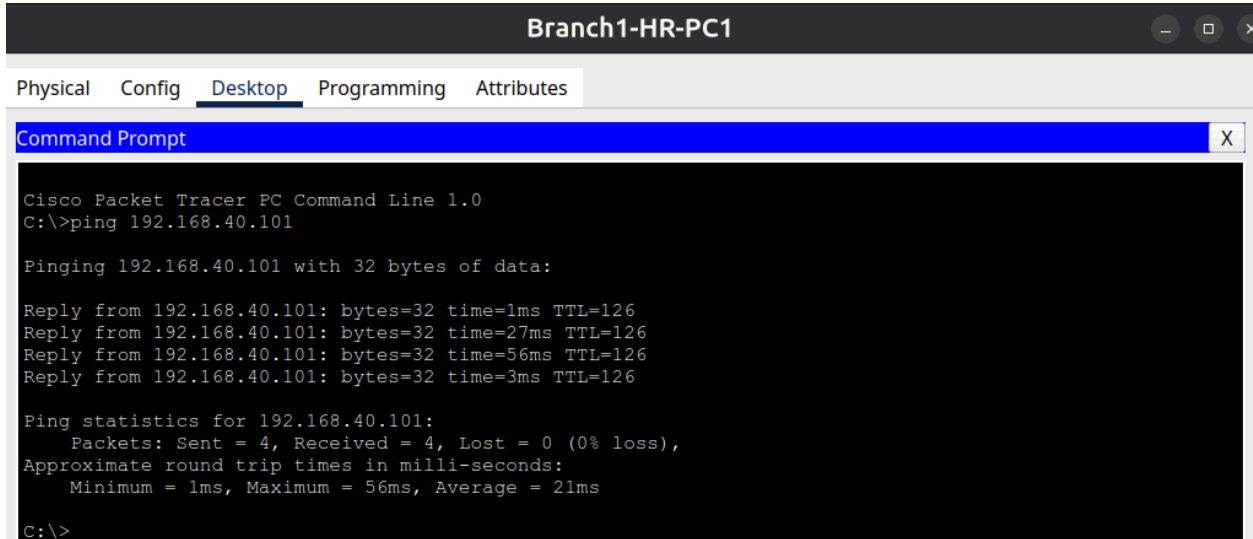


## Branch 1 HR → Branch 2 HR2



The screenshot shows a Cisco Packet Tracer PC Command Line window for Branch1-HR-PC1. The 'Desktop' tab is selected. The command prompt shows a successful ping to 192.168.40.101. The output includes the ping command, the data being sent (32 bytes), the replies from the destination, and the ping statistics.

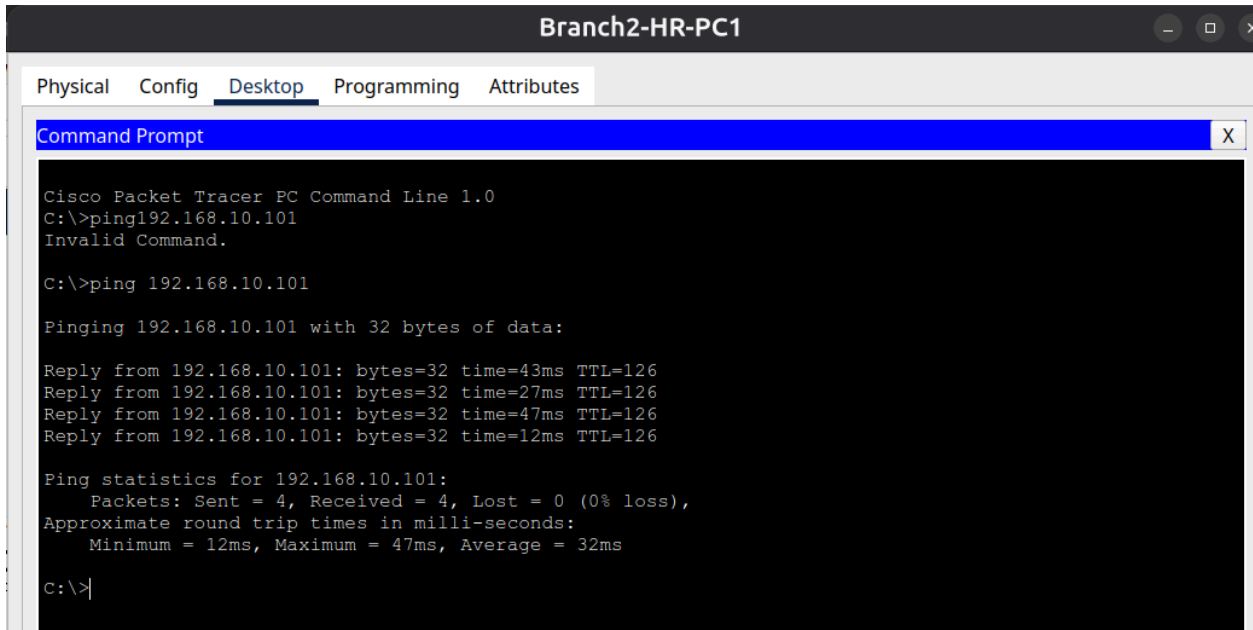
```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.40.101

Pinging 192.168.40.101 with 32 bytes of data:

Reply from 192.168.40.101: bytes=32 time=1ms TTL=126
Reply from 192.168.40.101: bytes=32 time=27ms TTL=126
Reply from 192.168.40.101: bytes=32 time=56ms TTL=126
Reply from 192.168.40.101: bytes=32 time=3ms TTL=126

Ping statistics for 192.168.40.101:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 56ms, Average = 21ms
C:\>
```

## Branch 2 HR2 → Branch 1 HR



The screenshot shows a Cisco Packet Tracer PC Command Line window for Branch2-HR-PC1. The 'Desktop' tab is selected. The command prompt shows a successful ping to 192.168.10.101. The output includes the ping command, the data being sent (32 bytes), the replies from the destination, and the ping statistics.

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping192.168.10.101
Invalid Command.

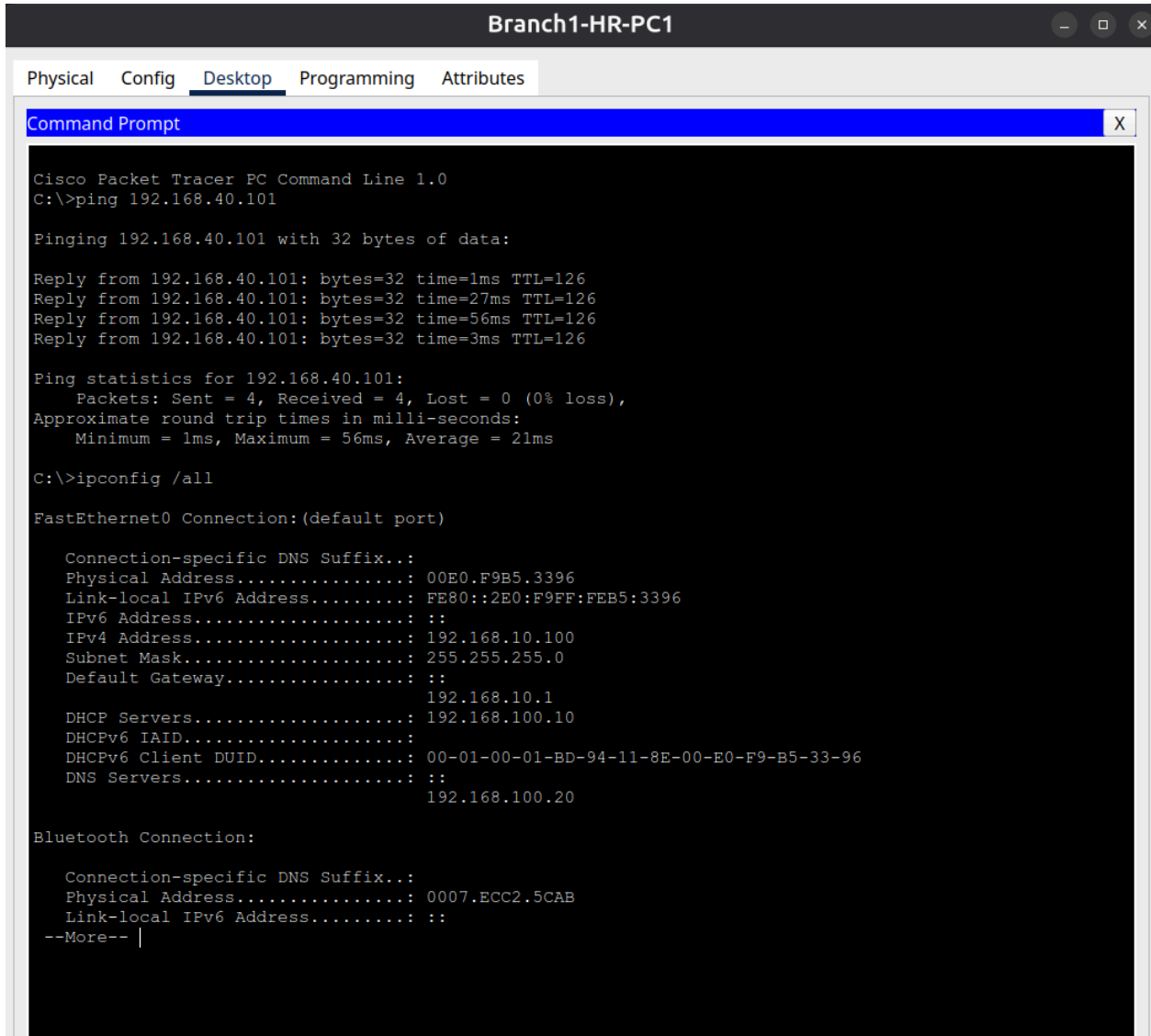
C:\>ping 192.168.10.101

Pinging 192.168.10.101 with 32 bytes of data:

Reply from 192.168.10.101: bytes=32 time=43ms TTL=126
Reply from 192.168.10.101: bytes=32 time=27ms TTL=126
Reply from 192.168.10.101: bytes=32 time=47ms TTL=126
Reply from 192.168.10.101: bytes=32 time=12ms TTL=126

Ping statistics for 192.168.10.101:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 12ms, Maximum = 47ms, Average = 32ms
C:\>
```

## dhcp for vlan of hr b1



```
Branch1-HR-PC1
Physical Config Desktop Programming Attributes
Command Prompt X
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.40.101

Pinging 192.168.40.101 with 32 bytes of data:

Reply from 192.168.40.101: bytes=32 time=1ms TTL=126
Reply from 192.168.40.101: bytes=32 time=27ms TTL=126
Reply from 192.168.40.101: bytes=32 time=56ms TTL=126
Reply from 192.168.40.101: bytes=32 time=3ms TTL=126

Ping statistics for 192.168.40.101:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 56ms, Average = 21ms

C:\>ipconfig /all

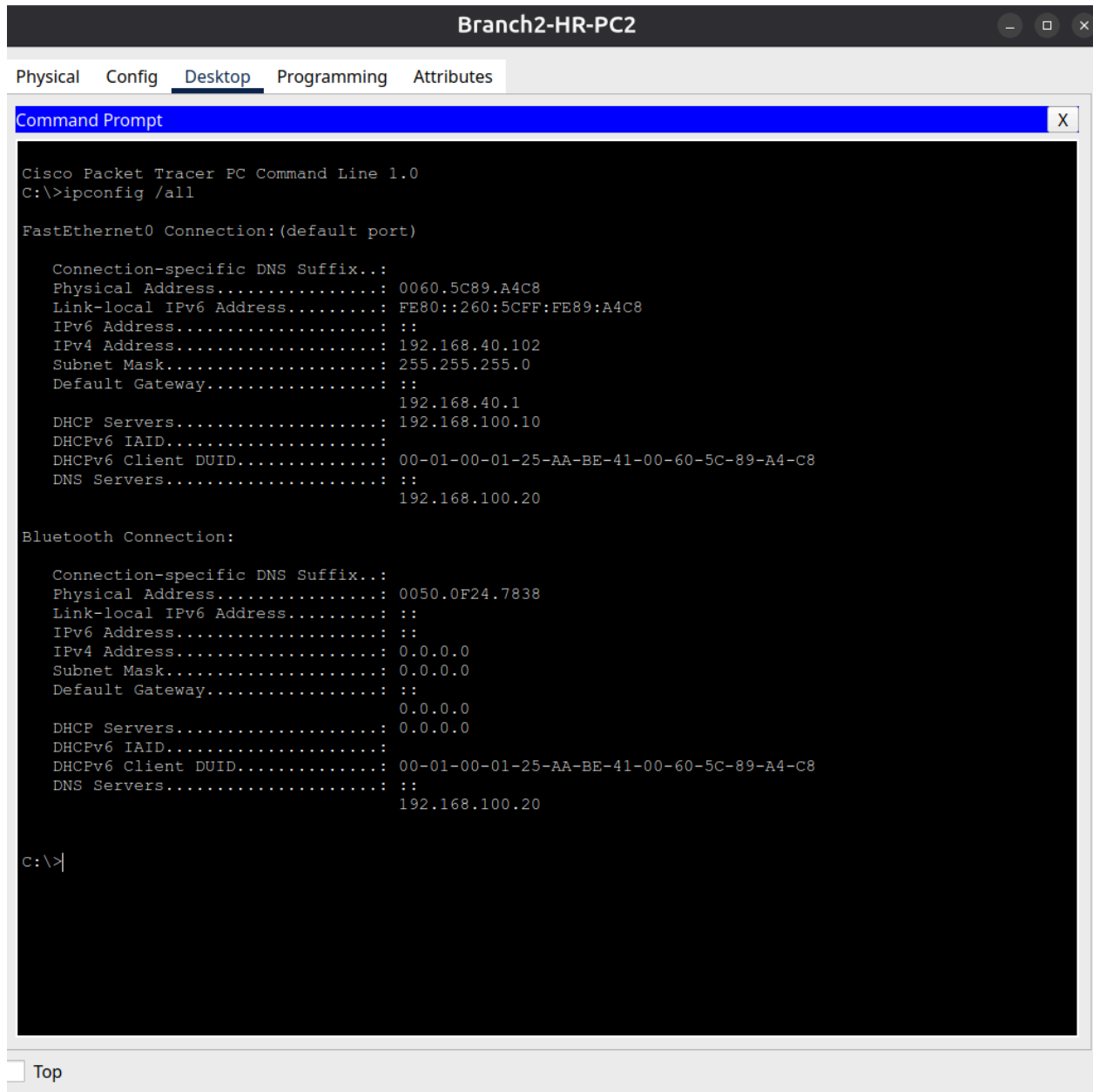
FastEthernet0 Connection: (default port)

    Connection-specific DNS Suffix...:
    Physical Address. ....: 00E0.F9B5.3396
    Link-local IPv6 Address. ....: FE80::2E0:F9FF:FE85:3396
    IPv6 Address. ....: ::
    IPv4 Address. ....: 192.168.10.100
    Subnet Mask. ....: 255.255.255.0
    Default Gateway. ....: ::
                                192.168.10.1
    DHCP Servers. ....: 192.168.100.10
    DHCPv6 IAID. ....:
    DHCPv6 Client DUID. ....: 00-01-00-01-BD-94-11-8E-00-E0-F9-B5-33-96
    DNS Servers. ....: ::
                                192.168.100.20

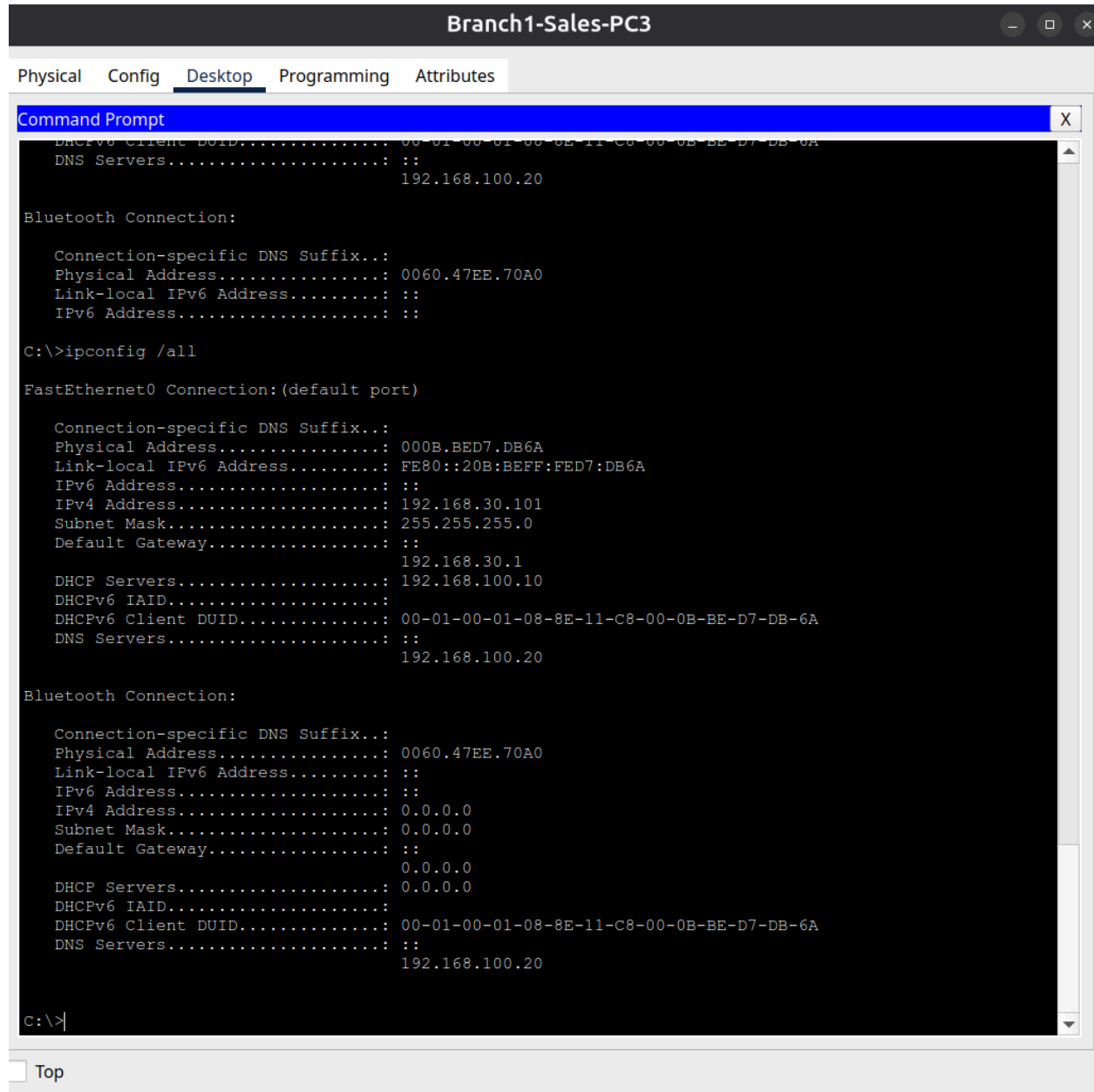
Bluetooth Connection:

    Connection-specific DNS Suffix...:
    Physical Address. ....: 0007.ECC2.5CAB
    Link-local IPv6 Address. ....: ::
    --More-- |
```

## dhcp hr b2



## dhcp sales b1 - Copy



The screenshot shows a network configuration window titled "Branch1-Sales-PC3" with tabs for Physical, Config, Desktop, Programming, and Attributes. The "Desktop" tab is active, displaying a "Command Prompt" window. The Command Prompt shows the output of the "ipconfig /all" command for the FastEthernet0 interface. The output includes details for the connection-specific DNS suffix, physical address, link-local IPv6 address, IPv4 address, subnet mask, default gateway, DHCP servers, DHCPv6 IAID, DHCPv6 client DUID, and DNS servers. The IPv4 address is 192.168.30.101, and the default gateway is 192.168.30.1. The DHCP server is 192.168.100.10. The DHCPv6 client DUID is 00-01-00-01-08-8E-11-C8-00-0B-BE-D7-DB-6A. The DNS server is 192.168.100.20. The Bluetooth connection details are also shown, including the connection-specific DNS suffix, physical address, link-local IPv6 address, IPv4 address, subnet mask, default gateway, DHCP servers, DHCPv6 IAID, DHCPv6 client DUID, and DNS servers. The IPv4 address is 0.0.0.0, and the default gateway is 0.0.0.0. The DHCP server is 0.0.0.0. The DHCPv6 client DUID is 00-01-00-01-08-8E-11-C8-00-0B-BE-D7-DB-6A. The DNS server is 192.168.100.20.

```
Branch1-Sales-PC3
Physical Config Desktop Programming Attributes
Command Prompt
DHCPv6 Client DUID..... 00-01-00-01-08-8E-11-C8-00-0B-BE-D7-DB-6A
DNS Servers..... ::
192.168.100.20

Bluetooth Connection:

Connection-specific DNS Suffix...:
Physical Address..... 0060.47EE.70A0
Link-local IPv6 Address..... ::
IPv6 Address..... ::
IPv4 Address..... ::

C:\>ipconfig /all

FastEthernet0 Connection:(default port)

Connection-specific DNS Suffix...:
Physical Address..... 000B.BED7.DB6A
Link-local IPv6 Address..... FE80::20B:BEFF:FED7:DB6A
IPv6 Address..... ::
IPv4 Address..... 192.168.30.101
Subnet Mask..... 255.255.255.0
Default Gateway..... ::
192.168.30.1
DHCP Servers..... 192.168.100.10
DHCPv6 IAID.....
DHCPv6 Client DUID..... 00-01-00-01-08-8E-11-C8-00-0B-BE-D7-DB-6A
DNS Servers..... ::
192.168.100.20

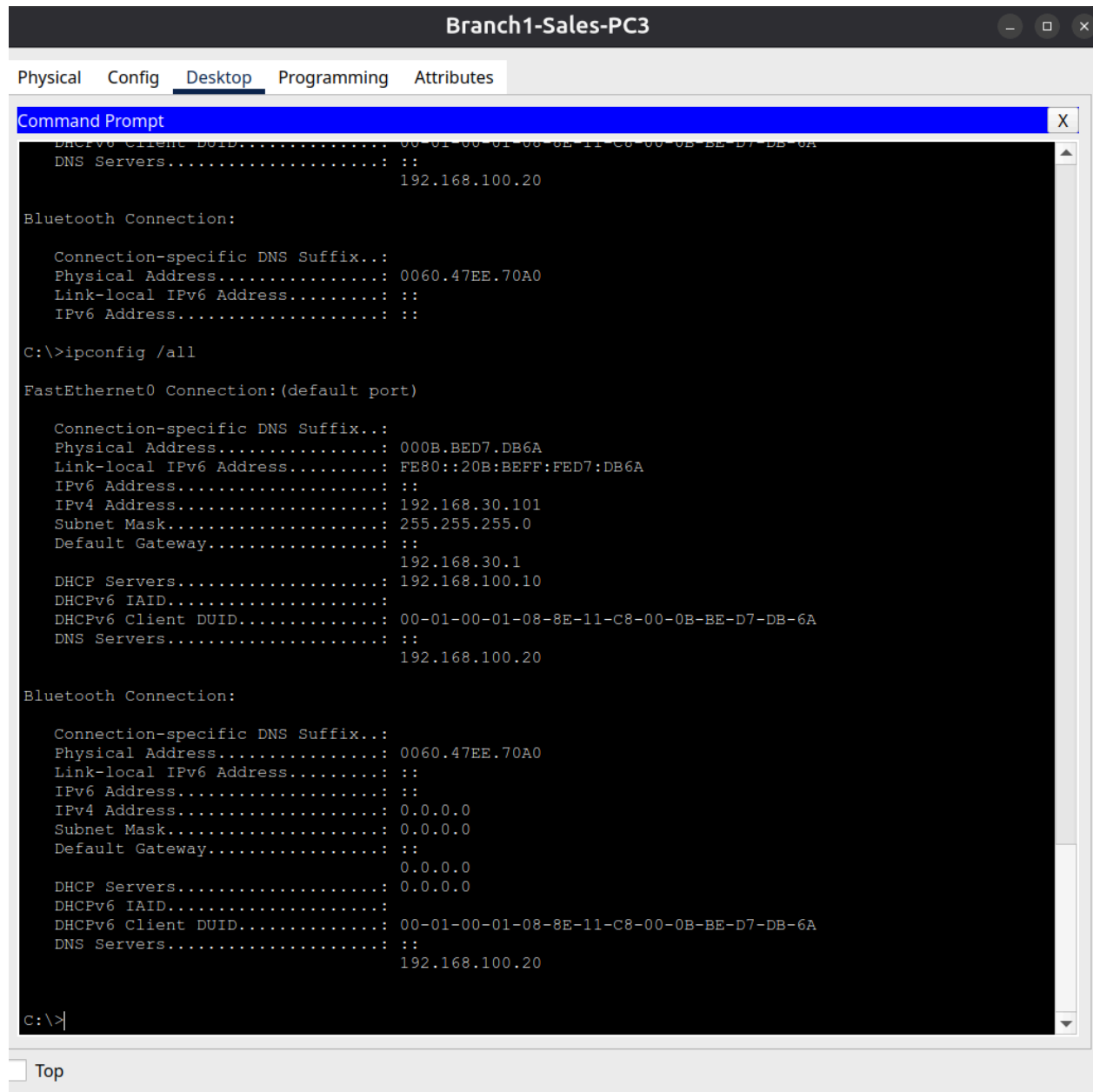
Bluetooth Connection:

Connection-specific DNS Suffix...:
Physical Address..... 0060.47EE.70A0
Link-local IPv6 Address..... ::
IPv6 Address..... ::
IPv4 Address..... 0.0.0.0
Subnet Mask..... 0.0.0.0
Default Gateway..... ::
0.0.0.0
DHCP Servers..... 0.0.0.0
DHCPv6 IAID.....
DHCPv6 Client DUID..... 00-01-00-01-08-8E-11-C8-00-0B-BE-D7-DB-6A
DNS Servers..... ::
192.168.100.20

C:\>
```

☐ Top

## dhcp sales b1



The screenshot shows a desktop environment for a device named "Branch1-Sales-PC3". The desktop has tabs for "Physical", "Config", "Desktop", "Programming", and "Attributes". The "Desktop" tab is active, displaying a "Command Prompt" window. The window shows the output of the command "ipconfig /all".

```
Branch1-Sales-PC3
Physical Config Desktop Programming Attributes
Command Prompt
DHCPv6 Client DUID..... 00-01-00-01-08-8E-11-C8-00-0B-BE-D7-DB-6A
DNS Servers..... ::
192.168.100.20

Bluetooth Connection:

Connection-specific DNS Suffix...:
Physical Address..... 0060.47EE.70A0
Link-local IPv6 Address..... ::
IPv6 Address..... ::

C:\>ipconfig /all

FastEthernet0 Connection:(default port)

Connection-specific DNS Suffix...:
Physical Address..... 000B.BED7.DB6A
Link-local IPv6 Address..... FE80::20B:BEFF:FED7:DB6A
IPv6 Address..... ::
IPv4 Address..... 192.168.30.101
Subnet Mask..... 255.255.255.0
Default Gateway..... ::
192.168.30.1
DHCP Servers..... 192.168.100.10
DHCPv6 IAID.....
DHCPv6 Client DUID..... 00-01-00-01-08-8E-11-C8-00-0B-BE-D7-DB-6A
DNS Servers..... ::
192.168.100.20

Bluetooth Connection:

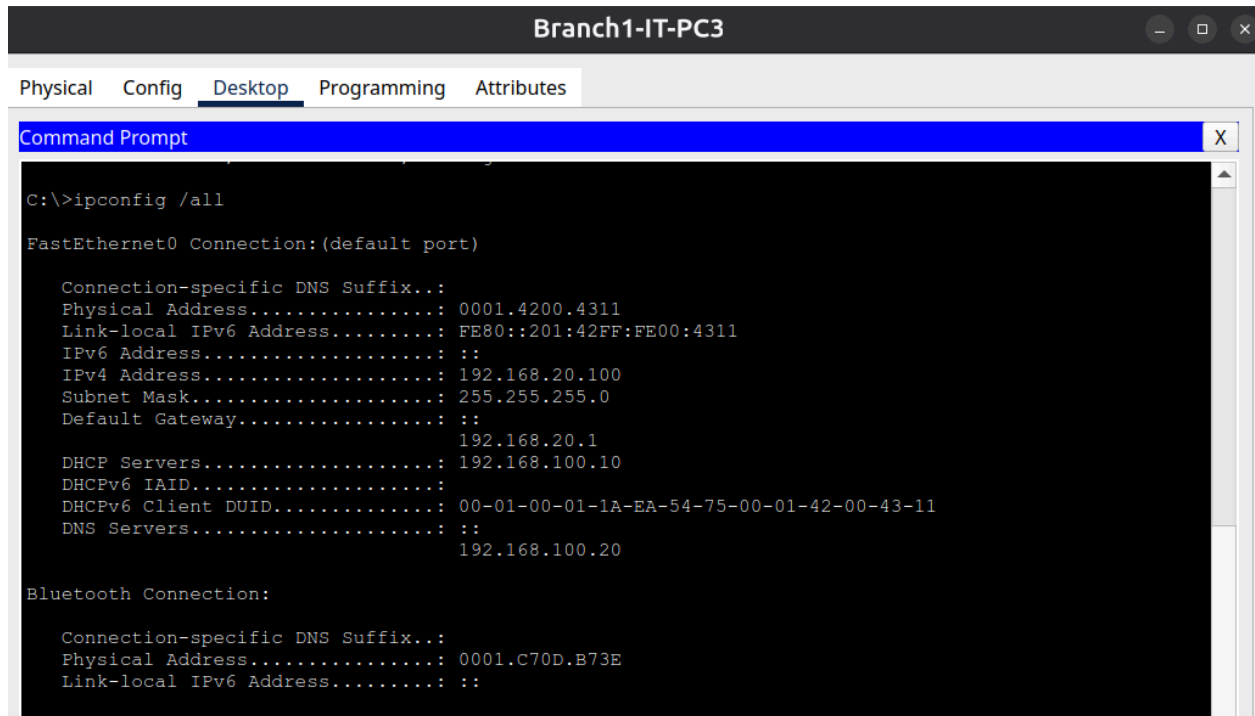
Connection-specific DNS Suffix...:
Physical Address..... 0060.47EE.70A0
Link-local IPv6 Address..... ::
IPv6 Address..... ::
IPv4 Address..... 0.0.0.0
Subnet Mask..... 0.0.0.0
Default Gateway..... ::
0.0.0.0
DHCP Servers..... 0.0.0.0
DHCPv6 IAID.....
DHCPv6 Client DUID..... 00-01-00-01-08-8E-11-C8-00-0B-BE-D7-DB-6A
DNS Servers..... ::
192.168.100.20

C:\>
```

Top

---

## dhcp sales vlan of b2 - Copy



The screenshot shows a Windows PC window titled "Branch1-IT-PC3" with tabs for Physical, Config, Desktop, Programming, and Attributes. The "Desktop" tab is active, displaying a Command Prompt window. The Command Prompt shows the output of the "ipconfig /all" command, detailing network configuration for both FastEthernet0 and Bluetooth connections.

```
C:\>ipconfig /all

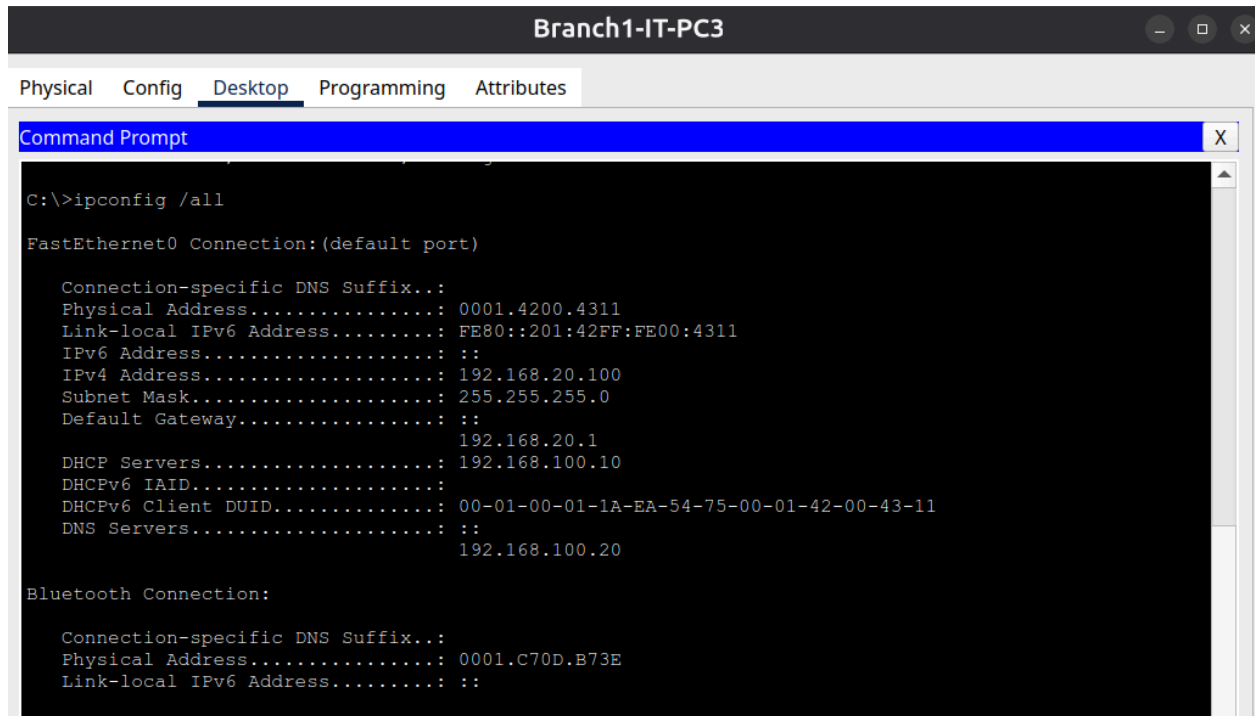
FastEthernet0 Connection:(default port)

    Connection-specific DNS Suffix...: 
    Physical Address...                : 0001.4200.4311
    Link-local IPv6 Address...         : FE80::201:42FF:FE00:4311
    IPv6 Address...                   : ::
    IPv4 Address...                   : 192.168.20.100
    Subnet Mask...                    : 255.255.255.0
    Default Gateway...                : ::
                                         192.168.20.1
    DHCP Servers...                  : 192.168.100.10
    DHCPv6 IAID...                   : 
    DHCPv6 Client DUID...            : 00-01-00-01-1A-EA-54-75-00-01-42-00-43-11
    DNS Servers...                   : ::
                                         192.168.100.20

Bluetooth Connection:

    Connection-specific DNS Suffix...: 
    Physical Address...                : 0001.C70D.B73E
    Link-local IPv6 Address...         : ::
```

## dhcp vlan of IT b1



```
Branch1-IT-PC3
Physical Config Desktop Programming Attributes
Command Prompt
C:\>ipconfig /all

FastEthernet0 Connection:(default port)

    Connection-specific DNS Suffix...: 
    Physical Address...: 0001.4200.4311
    Link-local IPv6 Address...: FE80::201:42FF:FE00:4311
    IPv6 Address...: ::
    IPv4 Address...: 192.168.20.100
    Subnet Mask...: 255.255.255.0
    Default Gateway...: ::
    DHCP Servers...: 192.168.20.1
    DHCPv6 IAID...: 192.168.100.10
    DHCPv6 Client DUID...: 00-01-00-01-1A-EA-54-75-00-01-42-00-43-11
    DNS Servers...: ::
    192.168.100.20

Bluetooth Connection:

    Connection-specific DNS Suffix...: 
    Physical Address...: 0001.C70D.B73E
    Link-local IPv6 Address...: ::
```

## IT b2 dhcp - Copy

```
Branch2-IT-PC3
Physical Config Desktop Programming Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ipconfig /all

FastEthernet0 Connection:(default port)

Connection-specific DNS Suffix...:
Physical Address.....: 0050.0F46.6939
Link-local IPv6 Address.....: FE80::250:FFF:FE46:6939
IPv6 Address.....: ::
IPv4 Address.....: 192.168.50.101
Subnet Mask.....: 255.255.255.0
Default Gateway.....: ::
                                192.168.50.1
DHCP Servers.....: 192.168.100.10
DHCPv6 IAID.....:
DHCPv6 Client DUID.....: 00-01-00-01-97-49-24-01-00-50-0F-46-69-39
DNS Servers.....: ::
                                192.168.100.20

Bluetooth Connection:

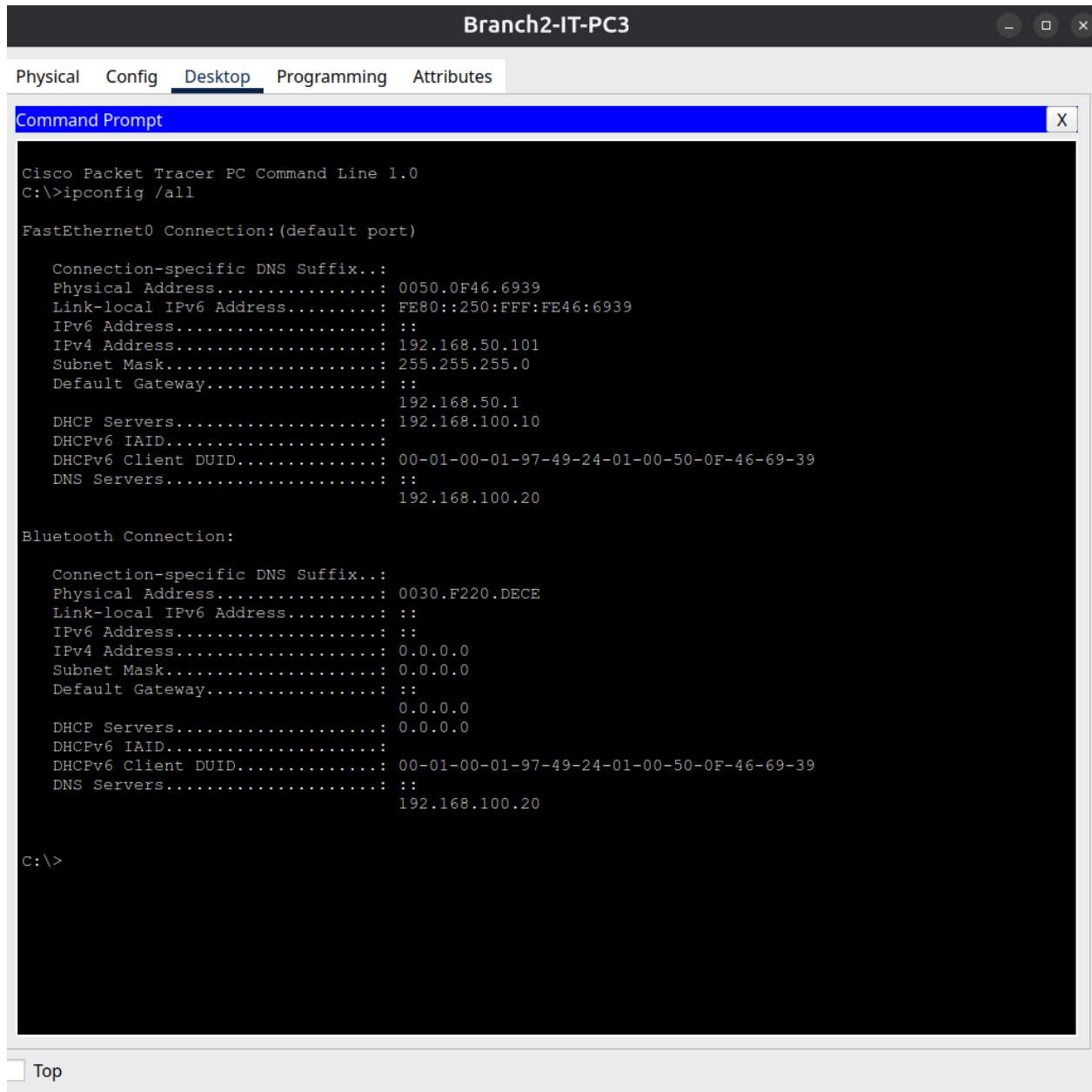
Connection-specific DNS Suffix...:
Physical Address.....: 0030.F220.DECE
Link-local IPv6 Address.....: ::
IPv6 Address.....: ::
IPv4 Address.....: 0.0.0.0
Subnet Mask.....: 0.0.0.0
Default Gateway.....: ::
                                0.0.0.0
DHCP Servers.....: 0.0.0.0
DHCPv6 IAID.....:
DHCPv6 Client DUID.....: 00-01-00-01-97-49-24-01-00-50-0F-46-69-39
DNS Servers.....: ::
                                192.168.100.20

C:\>
```

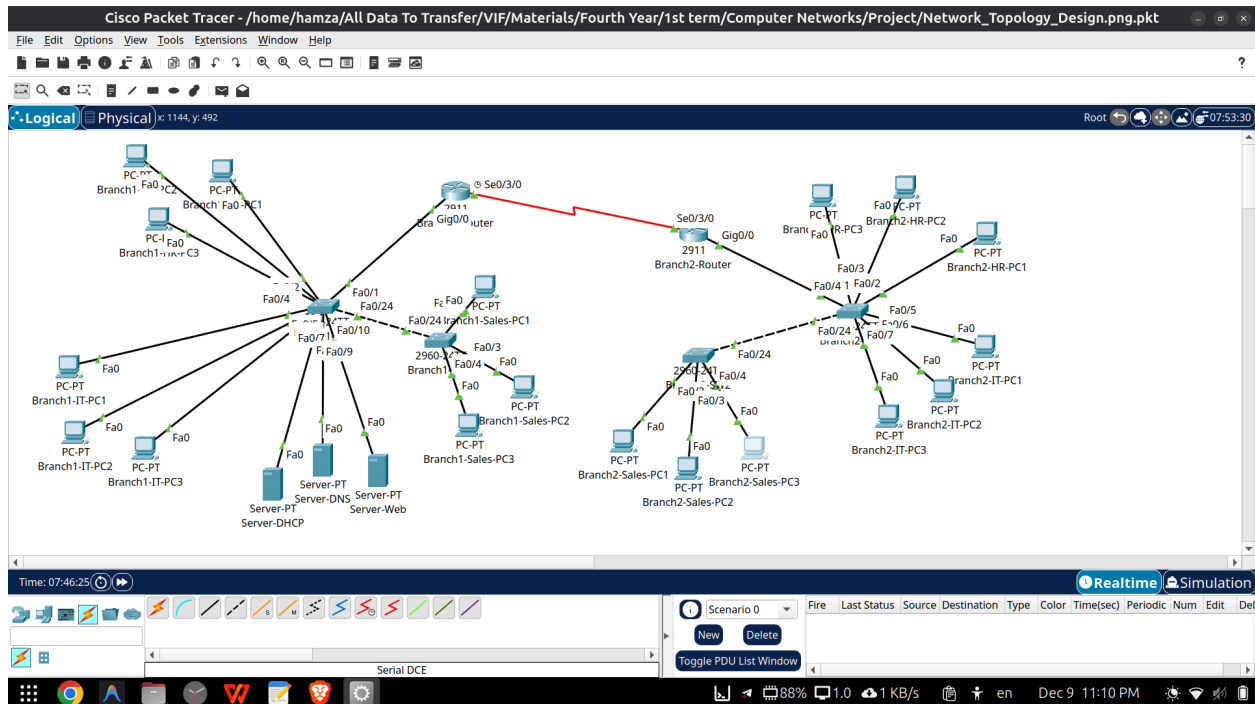
☐ Top



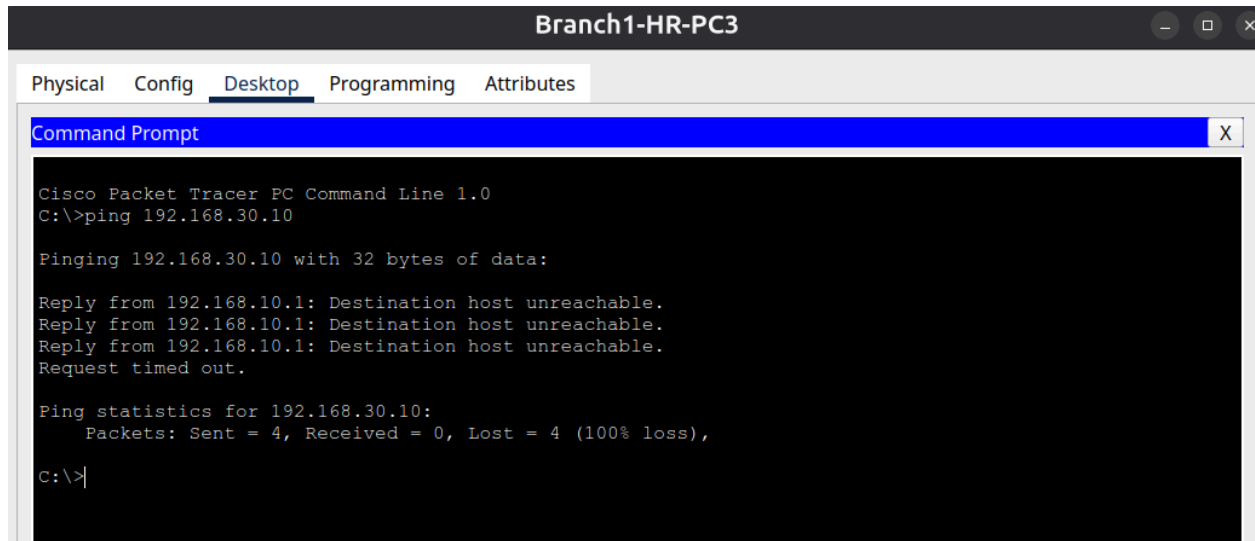
## IT b2 dhcp



Pasted image



ping from hr pc to sales pc in same branch



```
Branch1-HR-PC3
Physical  Config  Desktop  Programming  Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.30.10

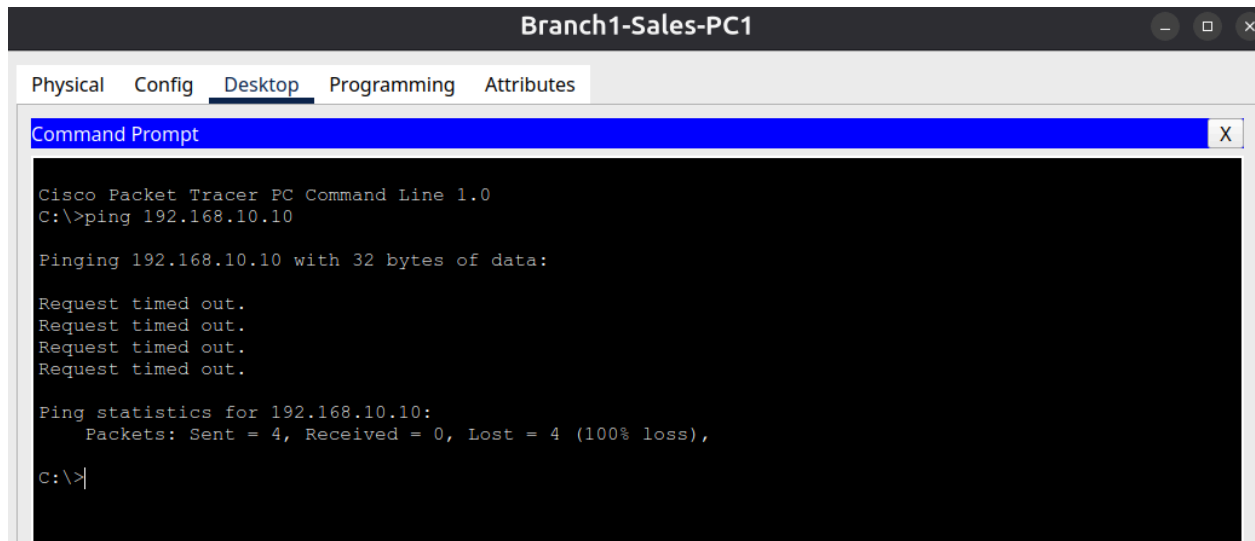
Pinging 192.168.30.10 with 32 bytes of data:

Reply from 192.168.10.1: Destination host unreachable.
Reply from 192.168.10.1: Destination host unreachable.
Reply from 192.168.10.1: Destination host unreachable.
Request timed out.

Ping statistics for 192.168.30.10:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

# ping from sales to hr same branch



```
Branch1-Sales-PC1
Physical  Config  Desktop  Programming  Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.10.10

Pinging 192.168.10.10 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.10.10:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

# port security

Branch1-SW1

Physical Config CLI Attributes

IOS Command Line Interface

Switch con0 is now available

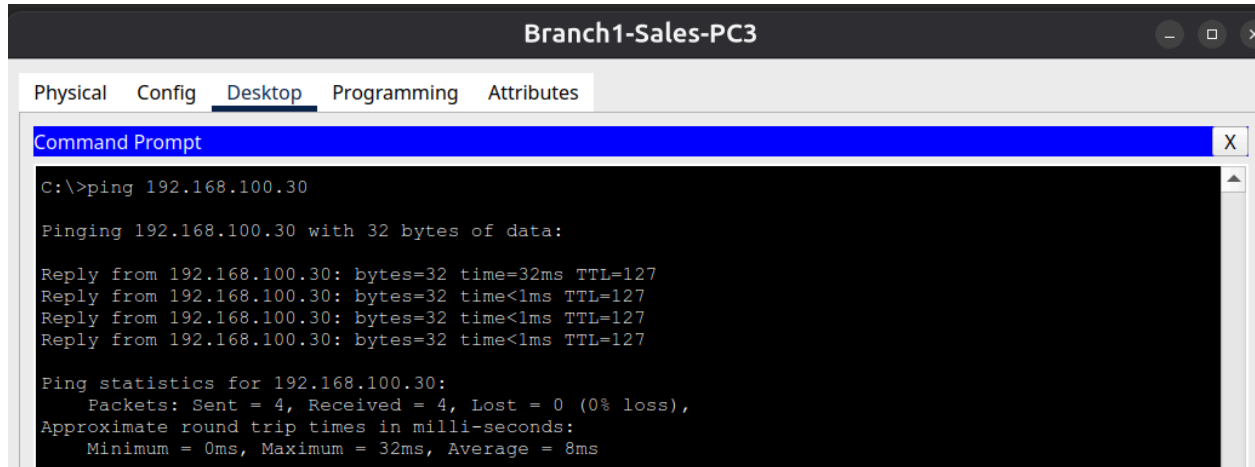
Press RETURN to get started.

Switch>enable  
Switch#show port-security interface fa0/3  
Port Security : Enabled  
Port Status : Secure-up  
Violation Mode : Restrict  
Aging Time : 0 mins  
Aging Type : Absolute  
SecureStatic Address Aging : Disabled  
Maximum MAC Addresses : 1  
Total MAC Addresses : 1  
Configured MAC Addresses : 0  
Sticky MAC Addresses : 1  
Last Source Address:Vlan : 0030.A300.694C:10  
Security Violation Count : 0  
Switch#

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☐ Top

## Sales Branch 1\_ to server - Copy



The screenshot shows a Windows-style window titled "Branch1-Sales-PC3" with tabs for "Physical", "Config", "Desktop", "Programming", and "Attributes". The "Desktop" tab is active, displaying a "Command Prompt" window. The command prompt shows the execution of the command "C:\>ping 192.168.100.30". The output indicates a successful ping with 32 bytes of data, showing four replies from 192.168.100.30 with times of 32ms, <1ms, <1ms, and <1ms, all with a TTL of 127. The ping statistics show 4 packets sent, 4 received, 0 lost (0% loss), and approximate round trip times of 0ms minimum, 32ms maximum, and 8ms average.

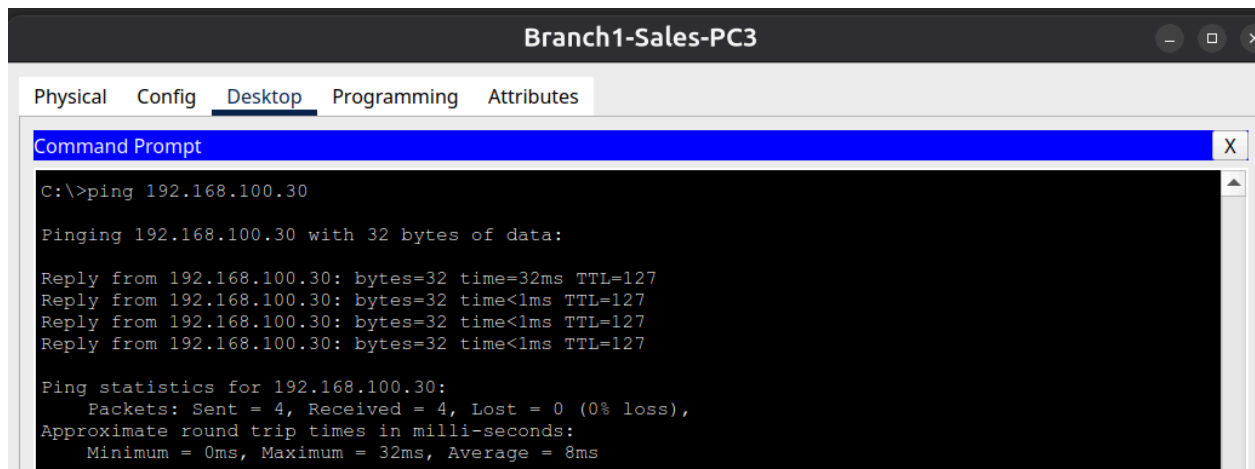
```
C:\>ping 192.168.100.30

Pinging 192.168.100.30 with 32 bytes of data:

Reply from 192.168.100.30: bytes=32 time=32ms TTL=127
Reply from 192.168.100.30: bytes=32 time<1ms TTL=127
Reply from 192.168.100.30: bytes=32 time<1ms TTL=127
Reply from 192.168.100.30: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.100.30:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 32ms, Average = 8ms
```

## Sales Branch 1\_ to server



This screenshot is identical to the one above, showing a successful ping from Branch1-Sales-PC3 to 192.168.100.30. The Command Prompt window displays the same output, confirming network connectivity with 4 successful replies and 0% packet loss.

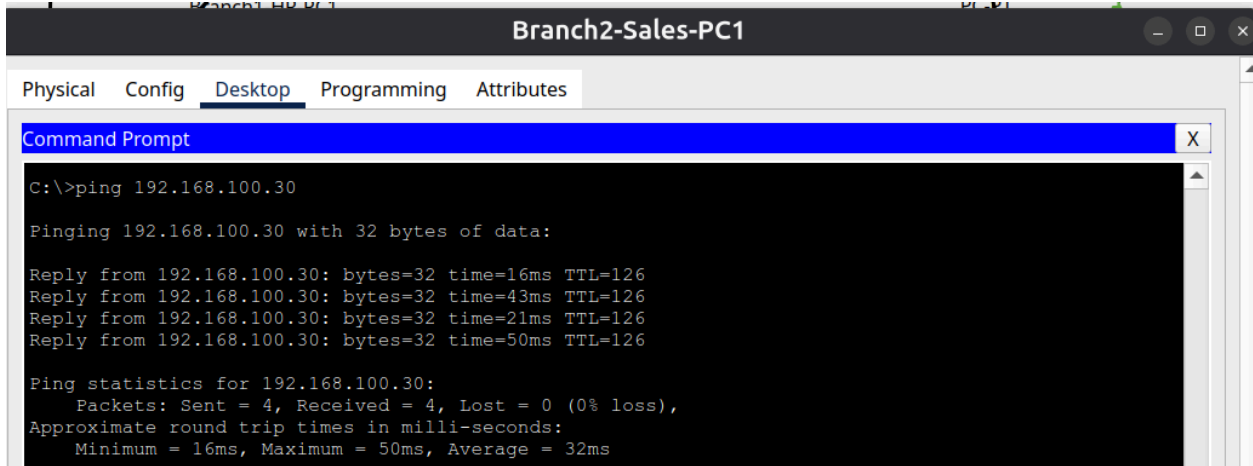
```
C:\>ping 192.168.100.30

Pinging 192.168.100.30 with 32 bytes of data:

Reply from 192.168.100.30: bytes=32 time=32ms TTL=127
Reply from 192.168.100.30: bytes=32 time<1ms TTL=127
Reply from 192.168.100.30: bytes=32 time<1ms TTL=127
Reply from 192.168.100.30: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.100.30:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 32ms, Average = 8ms
```

## Sales Branch 2 to server - Copy



The screenshot shows a Windows Command Prompt window titled "Branch2-Sales-PC1". The window has tabs for "Physical", "Config", "Desktop", "Programming", and "Attributes", with "Desktop" selected. The Command Prompt displays the output of a ping command to 192.168.100.30. The output shows four successful replies with varying times (16ms, 43ms, 21ms, 50ms) and a TTL of 126. The ping statistics indicate 4 packets sent, 4 received, and 0% loss, with an average round trip time of 32ms.

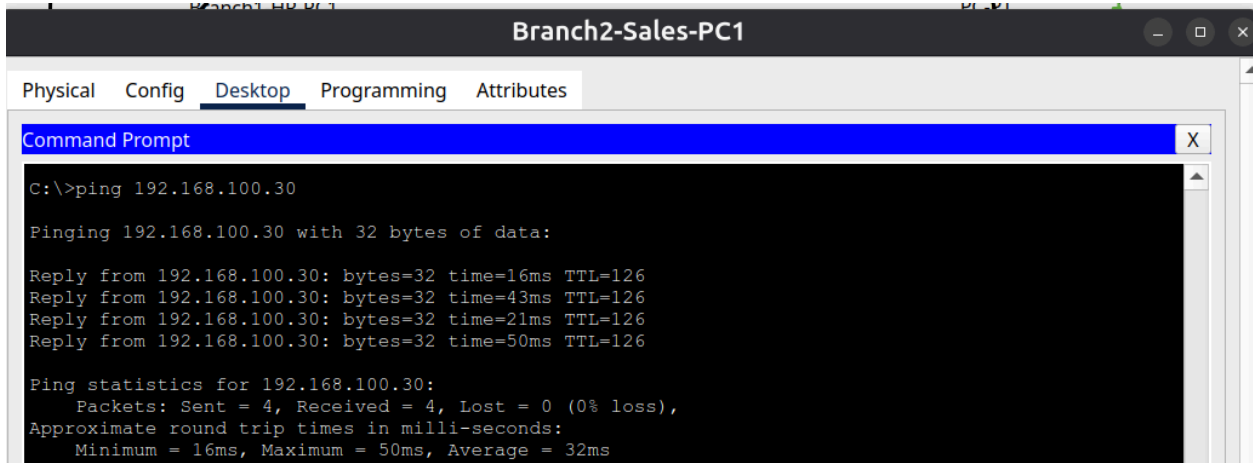
```
C:\>ping 192.168.100.30

Pinging 192.168.100.30 with 32 bytes of data:

Reply from 192.168.100.30: bytes=32 time=16ms TTL=126
Reply from 192.168.100.30: bytes=32 time=43ms TTL=126
Reply from 192.168.100.30: bytes=32 time=21ms TTL=126
Reply from 192.168.100.30: bytes=32 time=50ms TTL=126

Ping statistics for 192.168.100.30:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 16ms, Maximum = 50ms, Average = 32ms
```

## Sales Branch 2 to server



The screenshot shows a Windows Command Prompt window titled "Branch2-Sales-PC1". The window has tabs for "Physical", "Config", "Desktop", "Programming", and "Attributes", with "Desktop" selected. The Command Prompt displays the output of a ping command to 192.168.100.30. The output shows four successful replies with varying times (16ms, 43ms, 21ms, 50ms) and a TTL of 126. The ping statistics indicate 4 packets sent, 4 received, and 0% loss, with an average round trip time of 32ms.

```
C:\>ping 192.168.100.30

Pinging 192.168.100.30 with 32 bytes of data:

Reply from 192.168.100.30: bytes=32 time=16ms TTL=126
Reply from 192.168.100.30: bytes=32 time=43ms TTL=126
Reply from 192.168.100.30: bytes=32 time=21ms TTL=126
Reply from 192.168.100.30: bytes=32 time=50ms TTL=126

Ping statistics for 192.168.100.30:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 16ms, Maximum = 50ms, Average = 32ms
```

# sw1B1 p1 - Copy

Branch1-SW1

PhysicalConfigCLIAttributes

IOS Command Line Interface

Switch#show vlan brief

VLAN	Name	Status	Ports
1	default	active	Fa0/11, Fa0/12, Fa0/13, Fa0/14 Fa0/15, Fa0/16, Fa0/17, Fa0/18 Fa0/19, Fa0/20, Fa0/21, Fa0/22 Fa0/23, Gig0/1, Gig0/2
10	HR-Branch1	active	Fa0/2, Fa0/3, Fa0/4
20	IT-Branch1	active	Fa0/5, Fa0/6, Fa0/7
30	Sales-Branch1	active	
99	Management	active	
100	Server-Farm	active	Fa0/8, Fa0/9, Fa0/10
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

Switch#show interfaces trunk

Port	Mode	Encapsulation	Status	Native vlan
Fa0/1	on	802.1q	trunking	1
Fa0/24	on	802.1q	trunking	1

Port Vlans allowed on trunk

Fa0/1	10,20,30,99,100
Fa0/24	1-1005

Port Vlans allowed and active in management domain

Fa0/1	10,20,30,99,100
Fa0/24	1,10,20,30,99,100

Port Vlans in spanning tree forwarding state and not pruned

Fa0/1	10,20,30,99,100
Fa0/24	1,10,20,30,99,100

Switch#show spanning-tree vlan 10

VLAN0010

Spanning tree enabled protocol ieee

Root ID	Priority	4106
Address	0001.C9D0.0DA2	
This bridge is the root		
Hello Time	2 sec	Max Age 20 sec Forward Delay 15 sec

Bridge ID Priority 4106 (priority 4096 sys-id-ext 10)

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# sw1B1 p1

Branch1-SW1

PhysicalConfigCLIAttributes

IOS Command Line Interface

Switch#show vlan brief

VLAN	Name	Status	Ports
1	default	active	Fa0/11, Fa0/12, Fa0/13, Fa0/14 Fa0/15, Fa0/16, Fa0/17, Fa0/18 Fa0/19, Fa0/20, Fa0/21, Fa0/22 Fa0/23, Gig0/1, Gig0/2
10	HR-Branch1	active	Fa0/2, Fa0/3, Fa0/4
20	IT-Branch1	active	Fa0/5, Fa0/6, Fa0/7
30	Sales-Branch1	active	
99	Management	active	
100	Server-Farm	active	Fa0/8, Fa0/9, Fa0/10
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

Switch#show interfaces trunk

Port	Mode	Encapsulation	Status	Native vlan
Fa0/1	on	802.1q	trunking	1
Fa0/24	on	802.1q	trunking	1

Port Vlans allowed on trunk

Fa0/1	10,20,30,99,100
Fa0/24	1-1005

Port Vlans allowed and active in management domain

Fa0/1	10,20,30,99,100
Fa0/24	1,10,20,30,99,100

Port Vlans in spanning tree forwarding state and not pruned

Fa0/1	10,20,30,99,100
Fa0/24	1,10,20,30,99,100

Switch#show spanning-tree vlan 10

VLAN0010

Spanning tree enabled protocol ieee

Root ID	Priority	4106
Address	0001.C9D0.0DA2	
This bridge is the root		
Hello Time	2 sec	Max Age 20 sec Forward Delay 15 sec

Bridge ID Priority 4106 (priority 4096 sys-id-ext 10)

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## sw1B1 p2 - Copy

```
Switch#show spanning-tree vlan 10
VLAN0010
  Spanning tree enabled protocol ieee
  Root ID    Priority    4106
             Address     0001.C9D0.0DA2
             This bridge is the root
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec

  Bridge ID  Priority    4106 (priority 4096 sys-id-ext 10)
             Address     0001.C9D0.0DA2
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time  20

Interface                Role Sts Cost      Prio.Nbr Type
-----
Fa0/1                    Desg FWD 19        128.1    P2p
Fa0/2                    Desg FWD 19        128.2    P2p
Fa0/3                    Desg FWD 19        128.3    P2p
Fa0/4                    Desg FWD 19        128.4    P2p
Fa0/24                   Desg FWD 19        128.24   P2p

Switch#show cdp neighbors
Capability Codes: R - Router, T - Trans Bridge, B - Source Route Bridge
                  S - Switch, H - Host, I - IGMP, r - Repeater, P - Phone
Device ID    Local Intrfce    Holdtme    Capability    Platform    Port ID
Router       Fas 0/1          134        R             C2900       Gig 0/0
Router       Fas 0/1          134        R             C2900       Gig 0/0.10
Router       Fas 0/1          134        R             C2900       Gig 0/0.20
Router       Fas 0/1          134        R             C2900       Gig 0/0.30
Router       Fas 0/1          134        R             C2900       Gig 0/0.99
Switch       Fas 0/24         134        S             2960        Fas 0/24
Router       Fas 0/1          134        R             C2900       Gig 0/0.100
Switch#
```

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## sw1B1 p2

```
Switch#show spanning-tree vlan 10
VLAN0010
  Spanning tree enabled protocol ieee
  Root ID    Priority    4106
             Address     0001.C9D0.0DA2
             This bridge is the root
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec

  Bridge ID  Priority    4106 (priority 4096 sys-id-ext 10)
             Address     0001.C9D0.0DA2
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time  20

Interface                Role Sts Cost      Prio.Nbr Type
-----
Fa0/1                    Desg FWD 19        128.1    P2p
Fa0/2                    Desg FWD 19        128.2    P2p
Fa0/3                    Desg FWD 19        128.3    P2p
Fa0/4                    Desg FWD 19        128.4    P2p
Fa0/24                   Desg FWD 19        128.24   P2p

Switch#show cdp neighbors
Capability Codes: R - Router, T - Trans Bridge, B - Source Route Bridge
                  S - Switch, H - Host, I - IGMP, r - Repeater, P - Phone
Device ID    Local Intrfce    Holdtme    Capability    Platform    Port ID
Router       Fas 0/1          134        R             C2900       Gig 0/0
Router       Fas 0/1          134        R             C2900       Gig 0/0.10
Router       Fas 0/1          134        R             C2900       Gig 0/0.20
Router       Fas 0/1          134        R             C2900       Gig 0/0.30
Router       Fas 0/1          134        R             C2900       Gig 0/0.99
Switch       Fas 0/24         134        S             2960        Fas 0/24
Router       Fas 0/1          134        R             C2900       Gig 0/0.100
Switch#
```

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## sw1B2 p1 - Copy

Branch2-SW1

Physical Config CLI Attributes

IOS Command Line Interface

Switch>show vlan brief

VLAN	Name	Status	Ports
1	default	active	Fa0/8, Fa0/9, Fa0/10, Fa0/11 Fa0/12, Fa0/13, Fa0/14, Fa0/15 Fa0/16, Fa0/17, Fa0/18, Fa0/19 Fa0/20, Fa0/21, Fa0/22, Fa0/23 Gig0/1, Gig0/2
40	HR-Branch2	active	Fa0/2, Fa0/3, Fa0/4
50	IT-Branch2	active	Fa0/5, Fa0/6, Fa0/7
60	Sales-Branch2	active	
99	Management	active	
100	Server-Farm	active	
199	VLAN0199	active	
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

Switch>show interfaces trunk

Port	Mode	Encapsulation	Status	Native vlan
Fa0/1	on	802.1q	trunking	1
Fa0/24	on	802.1q	trunking	1

Port Vlabs allowed on trunk

Fa0/1	1-1005
Fa0/24	1-1005

Port Vlabs allowed and active in management domain

Fa0/1	1,40,50,60,99,100,199
Fa0/24	1,40,50,60,99,100,199

Port Vlabs in spanning tree forwarding state and not pruned

Fa0/1	1,40,50,60,99,100,199
Fa0/24	1,40,50,60,99,100,199

Switch>show spanning-tree vlan 10

No spanning tree instance exists.

Switch>show cdp neighbors

Capability Codes: R - Router, T - Trans Bridge, B - Source Route Bridge  
S - Switch, H - Host, I - IGMP, r - Repeater, P - Phone

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# sw1B2 p1

Branch2-SW1

Physical Config CLI Attributes

IOS Command Line Interface

Switch>show vlan brief

VLAN	Name	Status	Ports
1	default	active	Fa0/8, Fa0/9, Fa0/10, Fa0/11 Fa0/12, Fa0/13, Fa0/14, Fa0/15 Fa0/16, Fa0/17, Fa0/18, Fa0/19 Fa0/20, Fa0/21, Fa0/22, Fa0/23 Gig0/1, Gig0/2
40	HR-Branch2	active	Fa0/2, Fa0/3, Fa0/4
50	IT-Branch2	active	Fa0/5, Fa0/6, Fa0/7
60	Sales-Branch2	active	
99	Management	active	
100	Server-Farm	active	
199	VLAN0199	active	
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

Switch>show interfaces trunk

Port	Mode	Encapsulation	Status	Native vlan
Fa0/1	on	802.1q	trunking	1
Fa0/24	on	802.1q	trunking	1

Port Vlan allowed on trunk

Fa0/1	1-1005
Fa0/24	1-1005

Port Vlan allowed and active in management domain

Fa0/1	1,40,50,60,99,100,199
Fa0/24	1,40,50,60,99,100,199

Port Vlan in spanning tree forwarding state and not pruned

Fa0/1	1,40,50,60,99,100,199
Fa0/24	1,40,50,60,99,100,199

Switch>show spanning-tree vlan 10

No spanning tree instance exists.

Switch>show cdp neighbors

Capability Codes: R - Router, T - Trans Bridge, B - Source Route Bridge  
S - Switch, H - Host, I - IGMP, r - Repeater, P - Phone

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## sw1B2 p2 - Copy

```
Switch>show spanning tree vlan 10
```

```
No spanning tree instance exists.
```

```
Switch>show cdp neighbors
```

```
Capability Codes: R - Router, T - Trans Bridge, B - Source Route Bridge  
S - Switch, H - Host, I - IGMP, r - Repeater, P - Phone
```

Device ID	Local Intrfce	Holdtme	Capability	Platform	Port ID
Router	Fas 0/1	178	R	C2900	Gig 0/0
Router	Fas 0/1	178	R	C2900	Gig 0/0.40
Router	Fas 0/1	178	R	C2900	Gig 0/0.50
Switch	Fas 0/24	178	S	2960	Fas 0/24
Router	Fas 0/1	178	R	C2900	Gig 0/0.60
Router	Fas 0/1	178	R	C2900	Gig 0/0.199

```
Switch>
```

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## sw1B2 p2

```
Switch>show spanning tree vlan 10
```

```
No spanning tree instance exists.
```

```
Switch>show cdp neighbors
```

```
Capability Codes: R - Router, T - Trans Bridge, B - Source Route Bridge  
S - Switch, H - Host, I - IGMP, r - Repeater, P - Phone
```

Device ID	Local Intrfce	Holdtme	Capability	Platform	Port ID
Router	Fas 0/1	178	R	C2900	Gig 0/0
Router	Fas 0/1	178	R	C2900	Gig 0/0.40
Router	Fas 0/1	178	R	C2900	Gig 0/0.50
Switch	Fas 0/24	178	S	2960	Fas 0/24
Router	Fas 0/1	178	R	C2900	Gig 0/0.60
Router	Fas 0/1	178	R	C2900	Gig 0/0.199

```
Switch>
```

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## sw2B1 p1

Branch1-SW2

Physical Config CLI Attributes

IOS Command Line Interface

```
Switch#show vlan brief
```

VLAN	Name	Status	Ports
1	default	active	Fa0/5, Fa0/6, Fa0/7, Fa0/8 Fa0/9, Fa0/10, Fa0/11, Fa0/12 Fa0/13, Fa0/14, Fa0/15, Fa0/16 Fa0/17, Fa0/18, Fa0/19, Fa0/20 Fa0/21, Fa0/22, Fa0/23, Gig0/1 Gig0/2
10	HR-Branch1	active	
20	IT-Branch1	active	
30	Sales-Branch1	active	Fa0/1, Fa0/2, Fa0/3, Fa0/4
99	Management	active	
100	Server-Farm	active	
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

```
Switch#show interfaces trunk
```

Port	Mode	Encapsulation	Status	Native vlan
Fa0/24	on	802.1q	trunking	1

```
Port Vlan allowed on trunk
```

Fa0/24	1-1005
--------	--------

```
Port Vlan allowed and active in management domain
```

Fa0/24	1,10,20,30,99,100
--------	-------------------

```
Port Vlan in spanning tree forwarding state and not pruned
```

Fa0/24	1,10,20,30,99,100
--------	-------------------

## sw2B1 p2

```
Switch#show spanning-tree vlan 10
VLAN0010
  Spanning tree enabled protocol ieee
  Root ID    Priority    4106
             Address     0001.C9D0.0DA2
             Cost         19
             Port         24 (FastEthernet0/24)
             Hello Time   2 sec  Max Age 20 sec  Forward Delay 15 sec

  Bridge ID  Priority    28682 (priority 28672 sys-id-ext 10)
             Address     0001.4284.55A4
             Hello Time   2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time   20

Interface                Role Sts Cost      Prio.Nbr Type
-----
Fa0/24                    Root FWD 19        128.24   P2p

Switch#show cdp neighbors
Capability Codes: R - Router, T - Trans Bridge, B - Source Route Bridge
                  S - Switch, H - Host, I - IGMP, r - Repeater, P - Phone
Device ID    Local Intrfce    Holdtme    Capability    Platform    Port ID
Switch      Fas 0/24         148        S             2960        Fas 0/24
Switch#
```

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## sw2B2

Branch2-SW2

Physical

Config

CLI

Attributes

IOS Command Line Interface

Switch>show vlan brief

VLAN Name	Status	Ports
1 default	active	Fa0/1, Fa0/5, Fa0/6, Fa0/7 Fa0/8, Fa0/9, Fa0/10, Fa0/11 Fa0/12, Fa0/13, Fa0/14, Fa0/15 Fa0/16, Fa0/17, Fa0/18, Fa0/19 Fa0/20, Fa0/21, Fa0/22, Fa0/23 Gig0/1, Gig0/2
40 HR-Branch2	active	
50 IT-Branch2	active	
60 Sales-Branch2	active	Fa0/2, Fa0/3, Fa0/4
99 Management	active	
100 Server-Farm	active	
199 VLAN0199	active	
1002 fddi-default	active	
1003 token-ring-default	active	
1004 fddinet-default	active	
1005 trnet-default	active	

Switch>show interfaces trunk

Port	Mode	Encapsulation	Status	Native vlan
Fa0/24	on	802.1q	trunking	1

Port Vlans allowed on trunk

Fa0/24	1-1005
--------	--------

Port Vlans allowed and active in management domain

Fa0/24	1,40,50,60,99,100,199
--------	-----------------------

Port Vlans in spanning tree forwarding state and not pruned

Fa0/24	1,40,50,60,99,100,199
--------	-----------------------

Switch>show spanning-tree vlan 10

No spanning tree instance exists.

Switch>show cdp neighbors

Capability Codes: R - Router, T - Trans Bridge, B - Source Route Bridge  
S - Switch, H - Host, I - IGMP, r - Repeater, P - Phone

Device ID	Local Intrfce	Holdtme	Capability	Platform	Port ID
Switch	Fas 0/24	121	S	2960	Fas 0/24

Switch>

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