

Branch 1 HR → Branch 2 HR2

The screenshot shows a Cisco Packet Tracer window titled "Branch1-HR-PC1". The "Desktop" tab is selected in the menu bar. A command prompt window is open, showing the output of a ping command. The output is as follows:

```
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 window titled "Branch2-HR-PC1". The "Desktop" tab is selected in the menu bar. A command prompt window is open, showing the output of a ping command. The output is as follows:

```
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

The screenshot shows a window titled "Branch1-HR-PC1" with a tab bar containing "Physical", "Config", "Desktop" (which is selected), "Programming", and "Attributes". Below the tab bar is a "Command Prompt" window. The command prompt output is as follows:

```
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 sales b1 - Copy

Branch1-Sales-PC3

Physical Config Desktop Programming Attributes

Command Prompt X

```
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 b1

Branch1-Sales-PC3

Physical Config Desktop Programming Attributes

Command Prompt

```
DHCIPv6 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..... 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

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

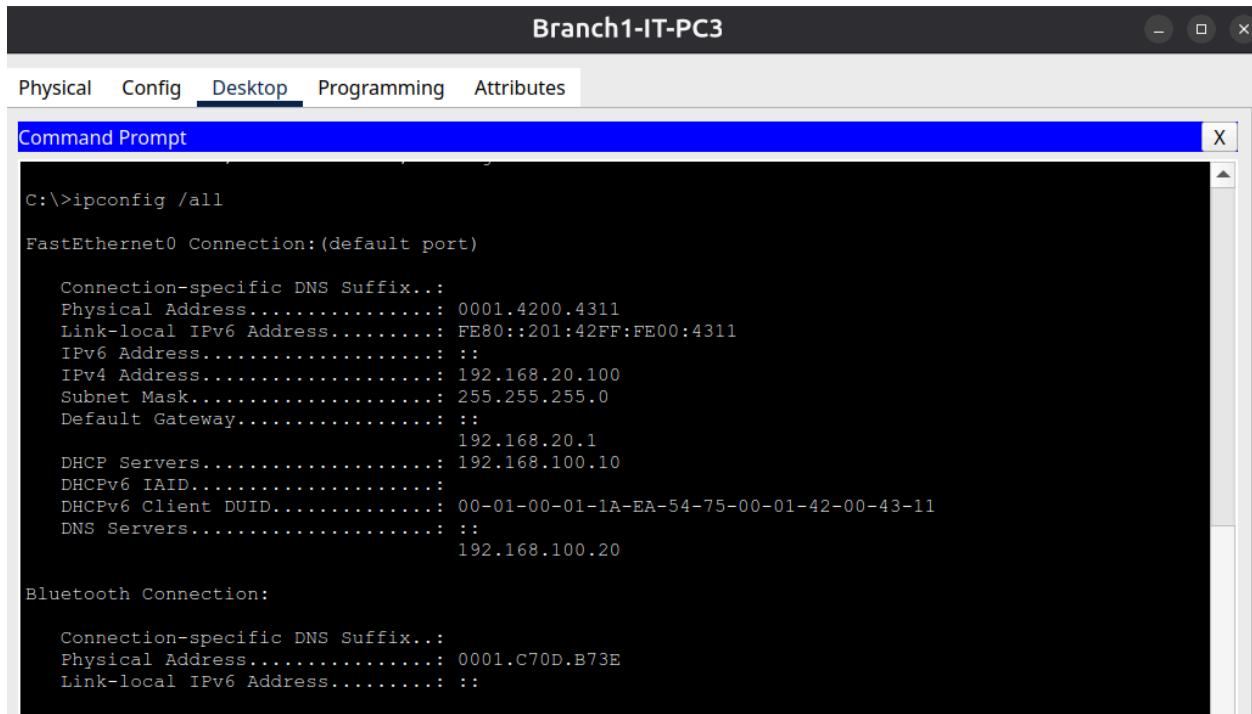
Bluetooth Connection:

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 terminal window titled "Branch1-IT-PC3". The tab bar at the top includes "Physical", "Config", "Desktop" (which is selected), "Programming", and "Attributes". The title bar also has standard window controls. The main area is a "Command Prompt" window with a blue header bar containing the title. The terminal output is as follows:

```
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

```
C:\>ipconfig /all

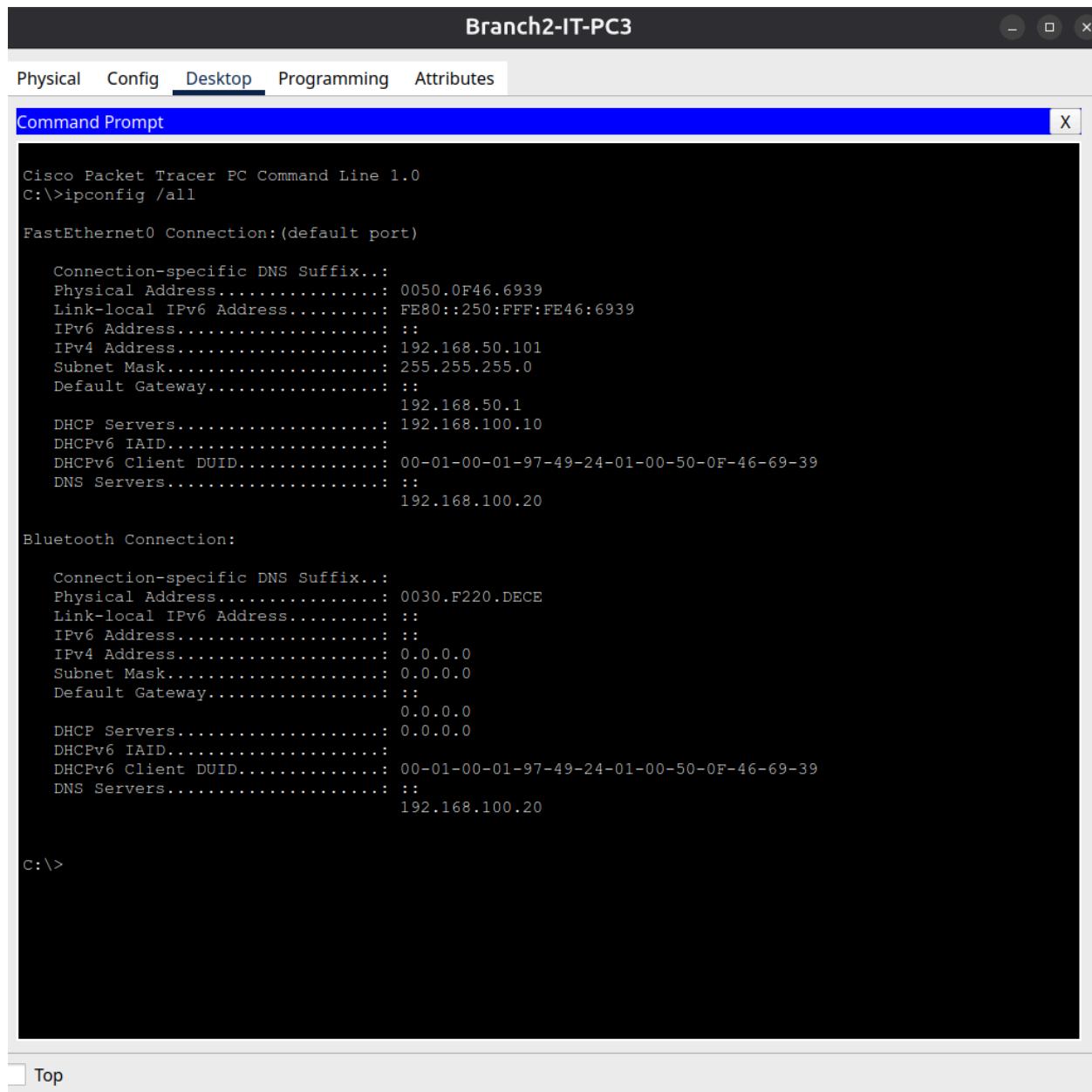
FastEthernet0 Connection:(default port)

    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....: :::
```

IT b2 dhcp - Copy



The screenshot shows a Cisco Packet Tracer interface titled "Branch2-IT-PC3". The "Desktop" tab is selected in the top menu bar. A "Command Prompt" window is open, displaying the output of the "ipconfig /all" command. The output details network configurations for two connections: "FastEthernet0 Connection: (default port)" and "Bluetooth Connection". Both connections show similar settings: 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), and DNS Servers (192.168.100.20). The "DHCPv6 Client DUID" field is also present in both entries. The command prompt window has a blue header bar with the title "Command Prompt" and a red "X" button.

```
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:\>
```

IT b2 dhcp

The screenshot shows a window titled "Branch2-IT-PC3" with a tab bar containing "Physical", "Config", "Desktop" (which is selected), "Programming", and "Attributes". Below the title bar is a blue header bar with the text "Command Prompt" and a close button ("X"). The main area of the window displays the output of the "ipconfig /all" command:

```
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

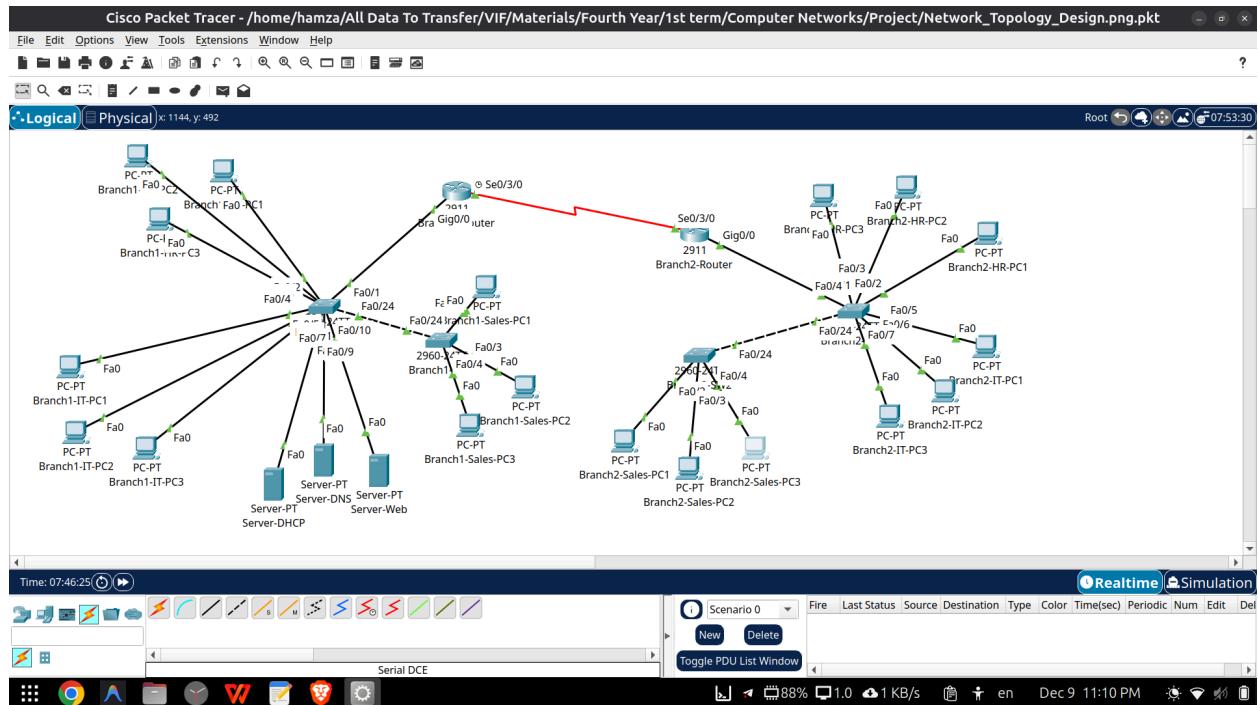
Bluetooth Connection:

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

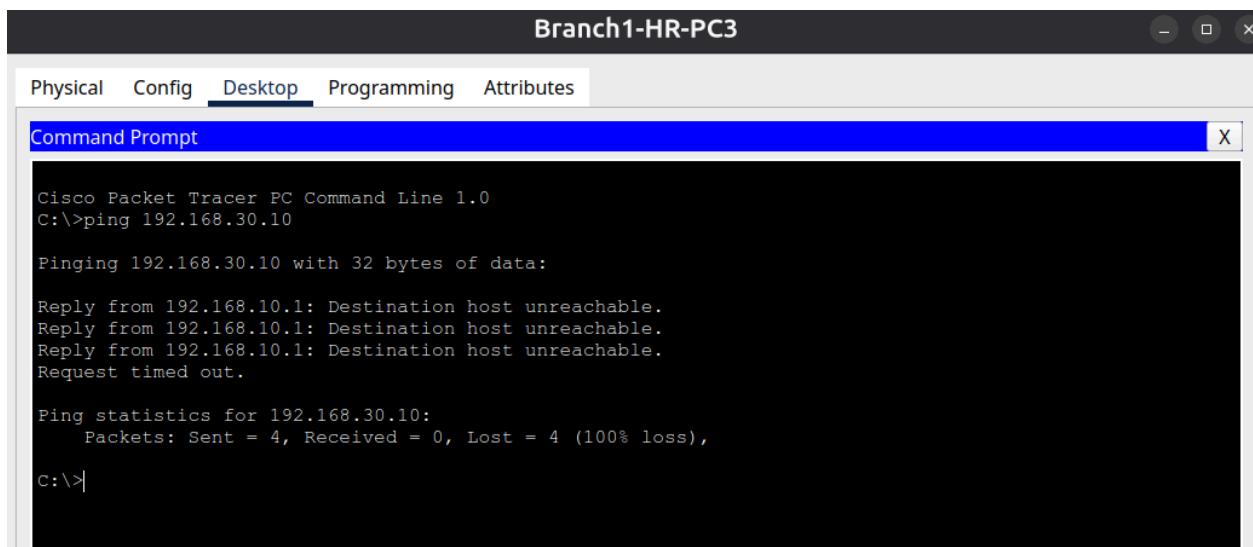
C:\>
```

At the bottom left of the window, there is a "Top" button.

Pasted image



ping from hr pc to sales pc in same branch



The screenshot shows a Cisco Packet Tracer interface titled "Branch1-HR-PC3". The "Desktop" tab is selected in the top navigation bar. Below it is a "Command Prompt" window with a blue header bar containing the title "Command Prompt" and a close button (X). The main area of the window displays the following command-line session:

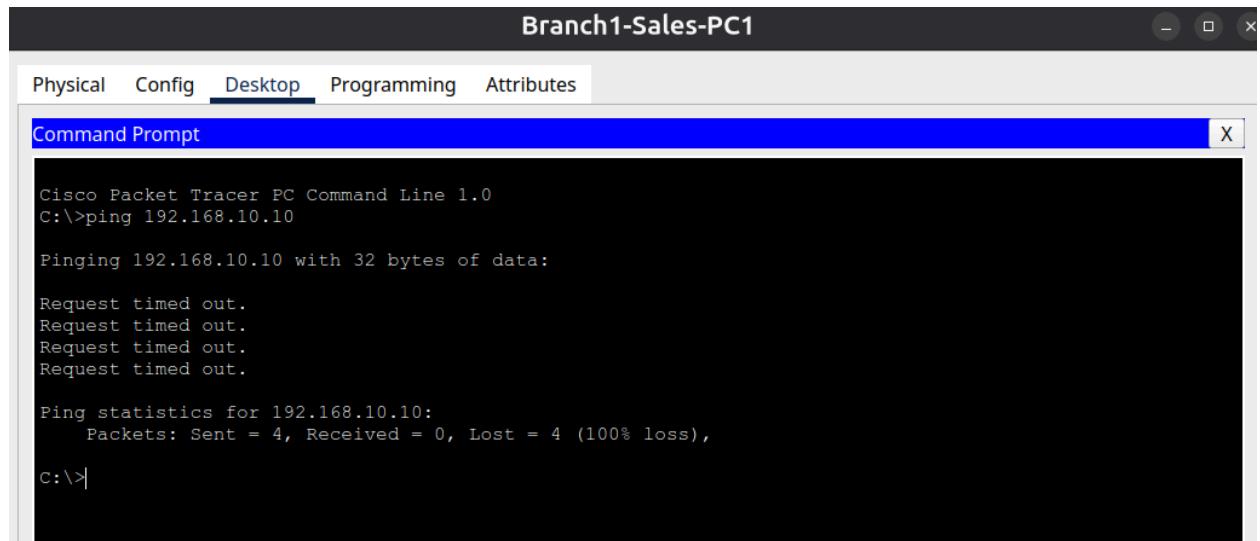
```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.30.10

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



The screenshot shows a window titled "Branch1-Sales-PC1" with a tab bar containing "Physical", "Config", "Desktop" (which is selected), "Programming", and "Attributes". Below the tabs is a "Command Prompt" window. The command prompt displays the following output:

```
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

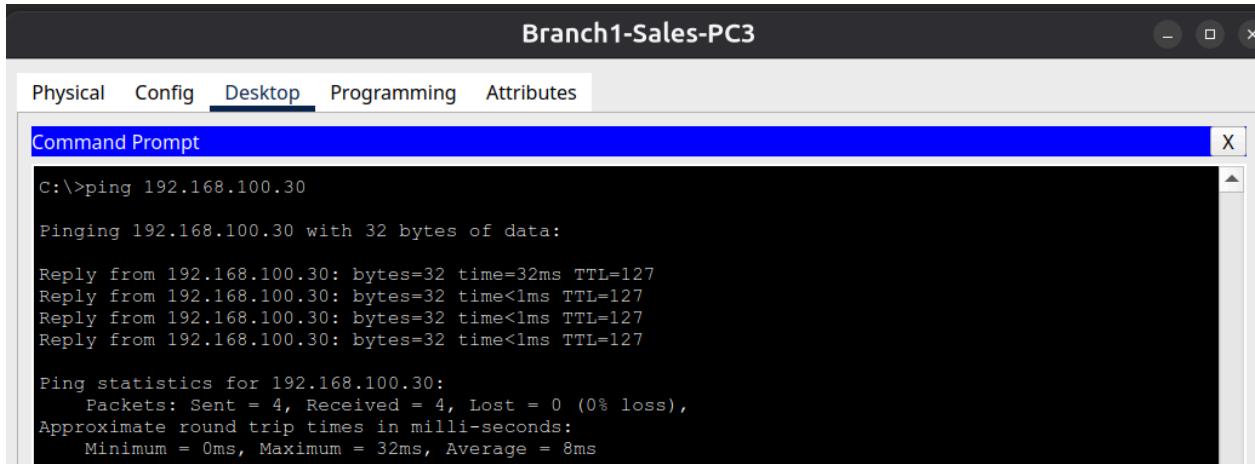
```
Switch con0 is now available

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#
```

Top

Sales Branch 1_ to server - Copy



Branch1-Sales-PC3

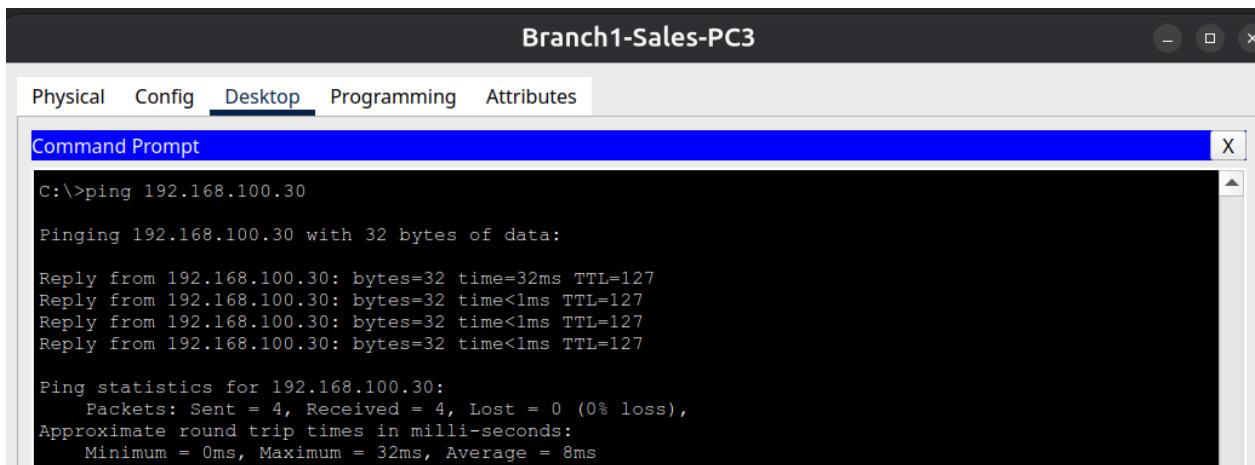
Physical Config Desktop Programming Attributes

Command Prompt X

```
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



Branch1-Sales-PC3

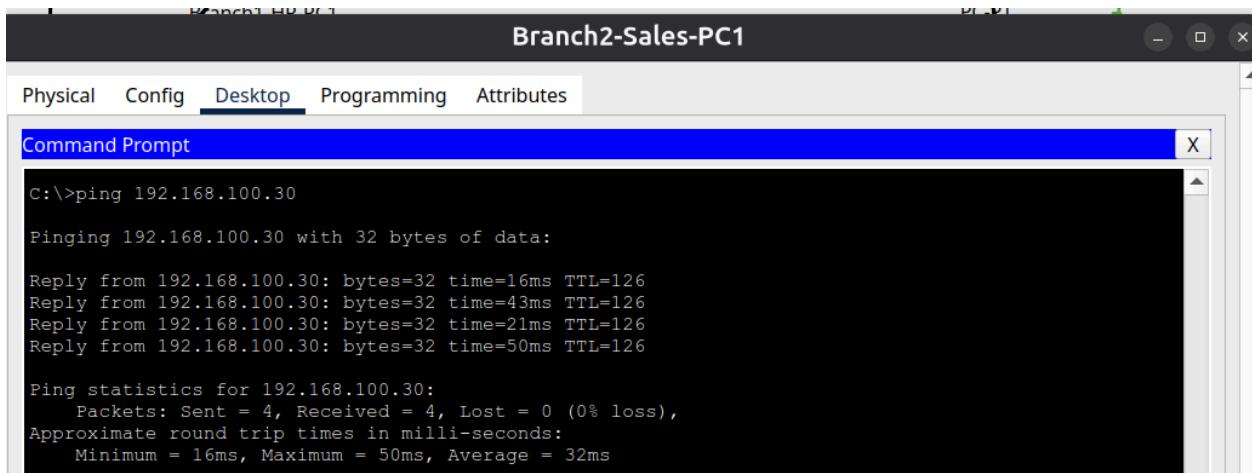
Physical Config Desktop Programming Attributes

Command Prompt X

```
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

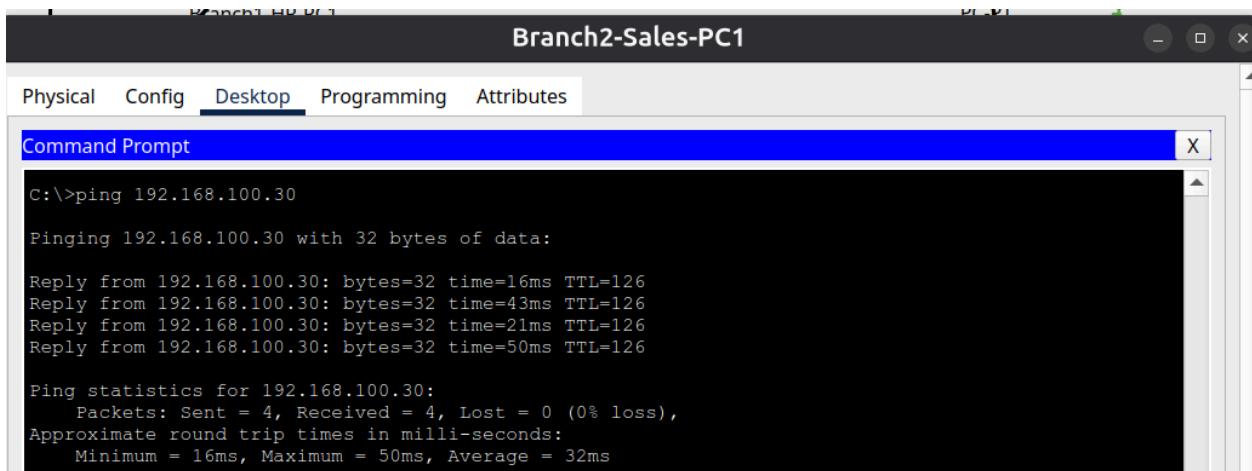
Ping statistics for 192.168.100.30:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 32ms, Average = 8ms
```

Sales Branch 2 to server - Copy



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



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

Physical Config **CLI** Attributes

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)
```

Copy Paste

sw1B1 p1

Branch1-SW1

Physical Config **CLI** Attributes

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)
```

Copy Paste

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#
```

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#
```

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      Vlans allowed on trunk
Fa0/1    1-1005
Fa0/24   1-1005

Port      Vlans 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      Vlans 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      Vlans allowed on trunk
Fa0/1    1-1005
Fa0/24   1-1005

Port      Vlans 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      Vlans 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 Vlans allowed on trunk
Fa0/24 1-1005

Port Vlans allowed and active in management domain
Fa0/24 1,10,20,30,99,100

Port Vlans 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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