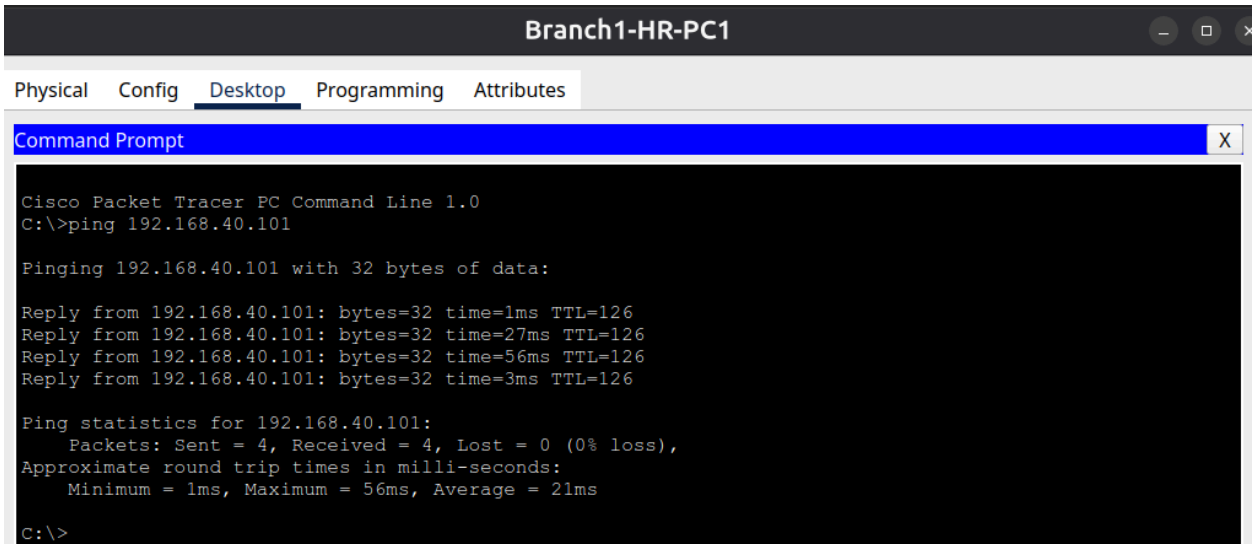
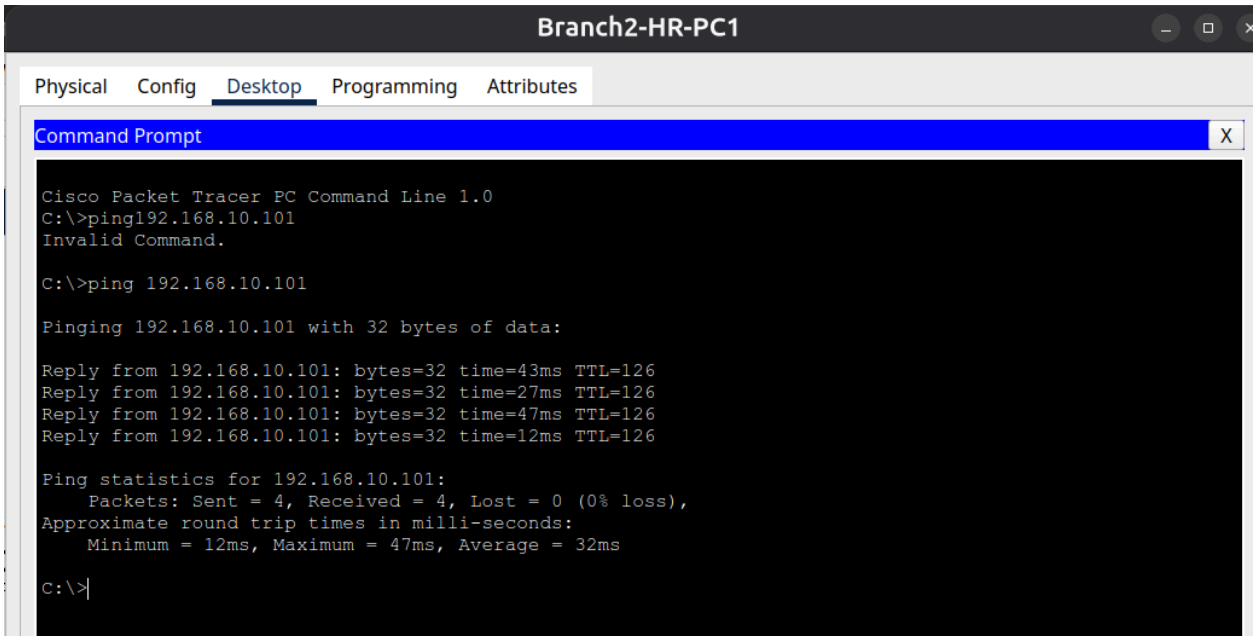
Branch 1 HR → Branch 2 HR2

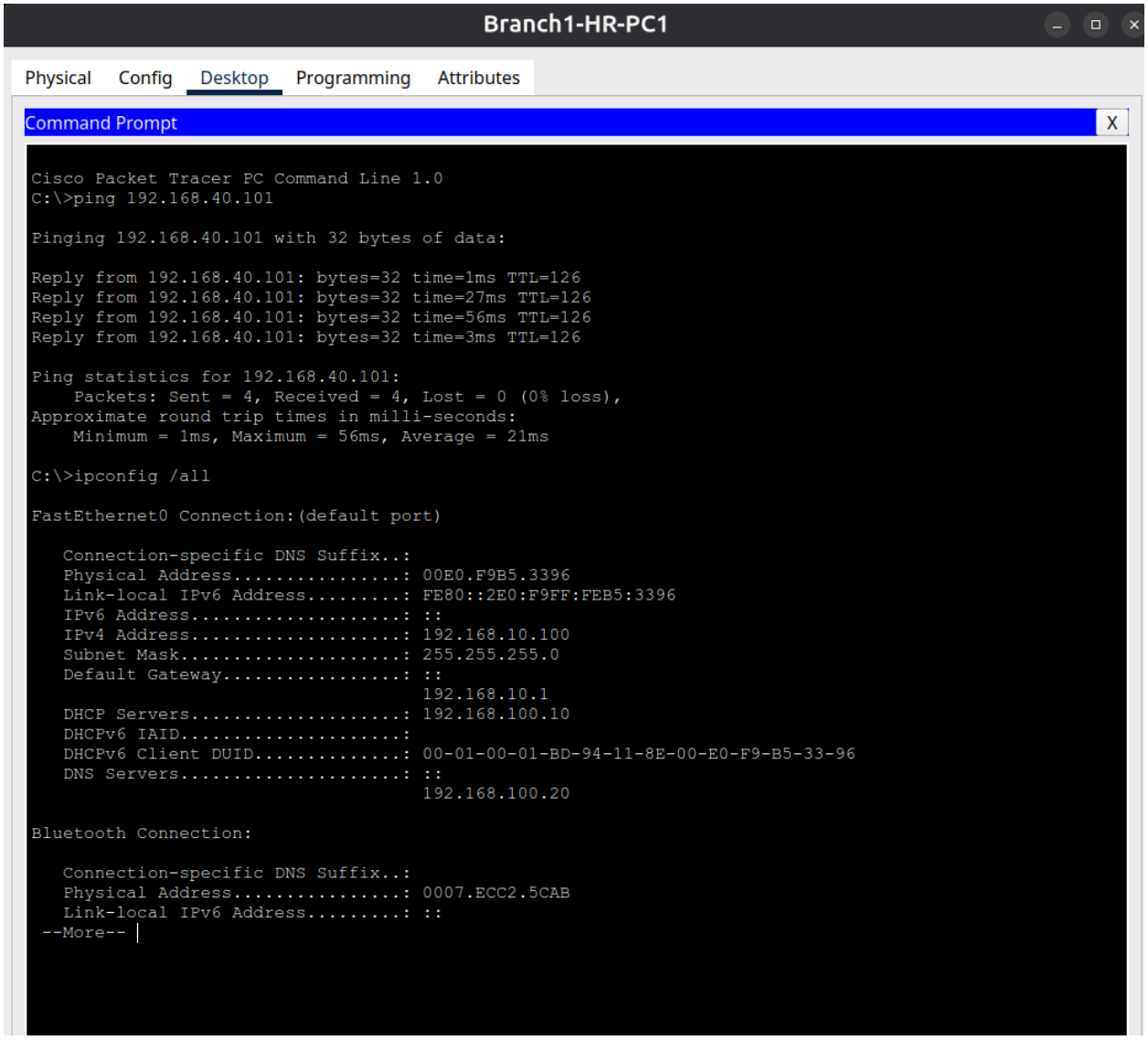


Branch 2 HR2 → Branch 1 HR

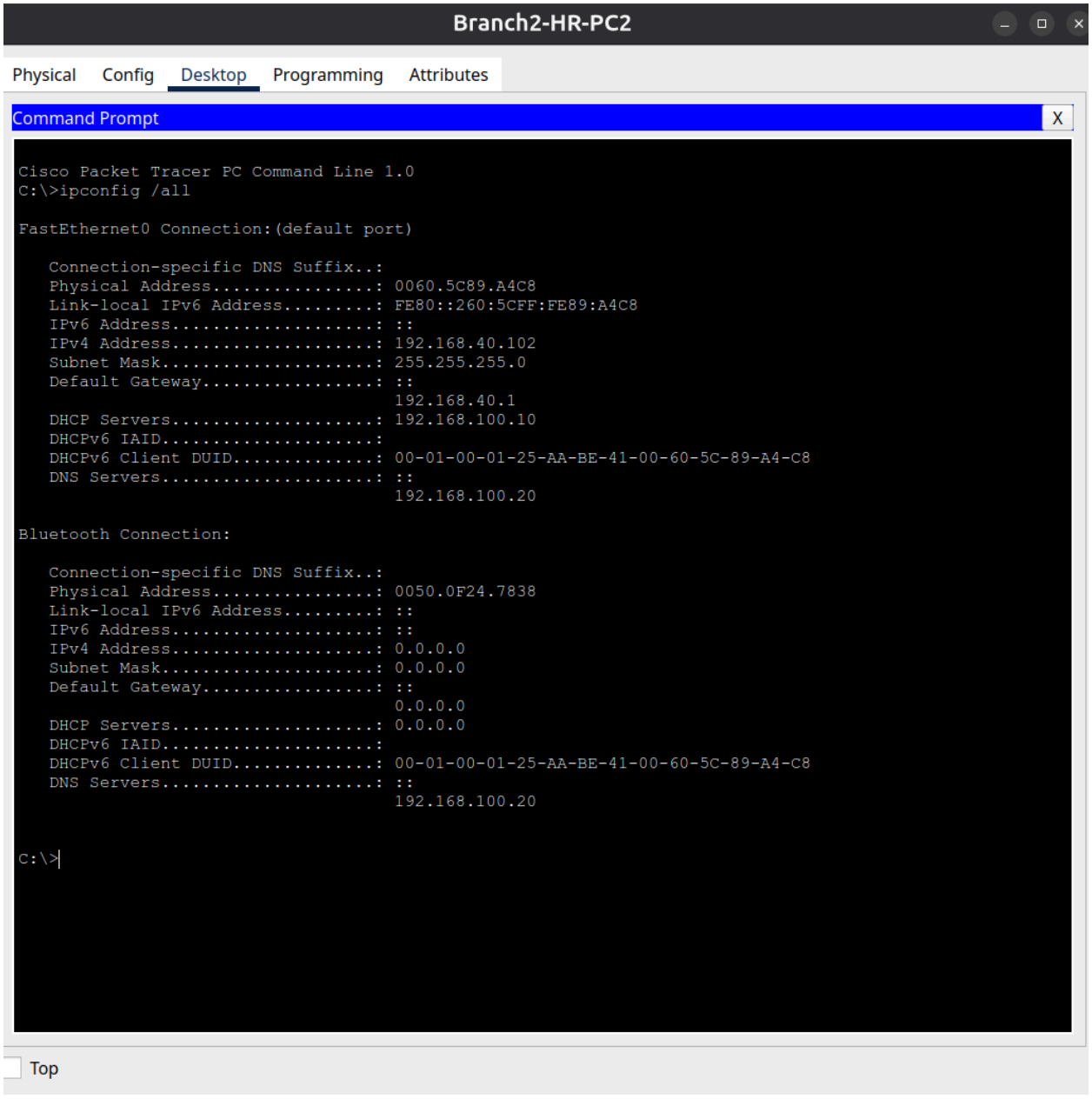


---

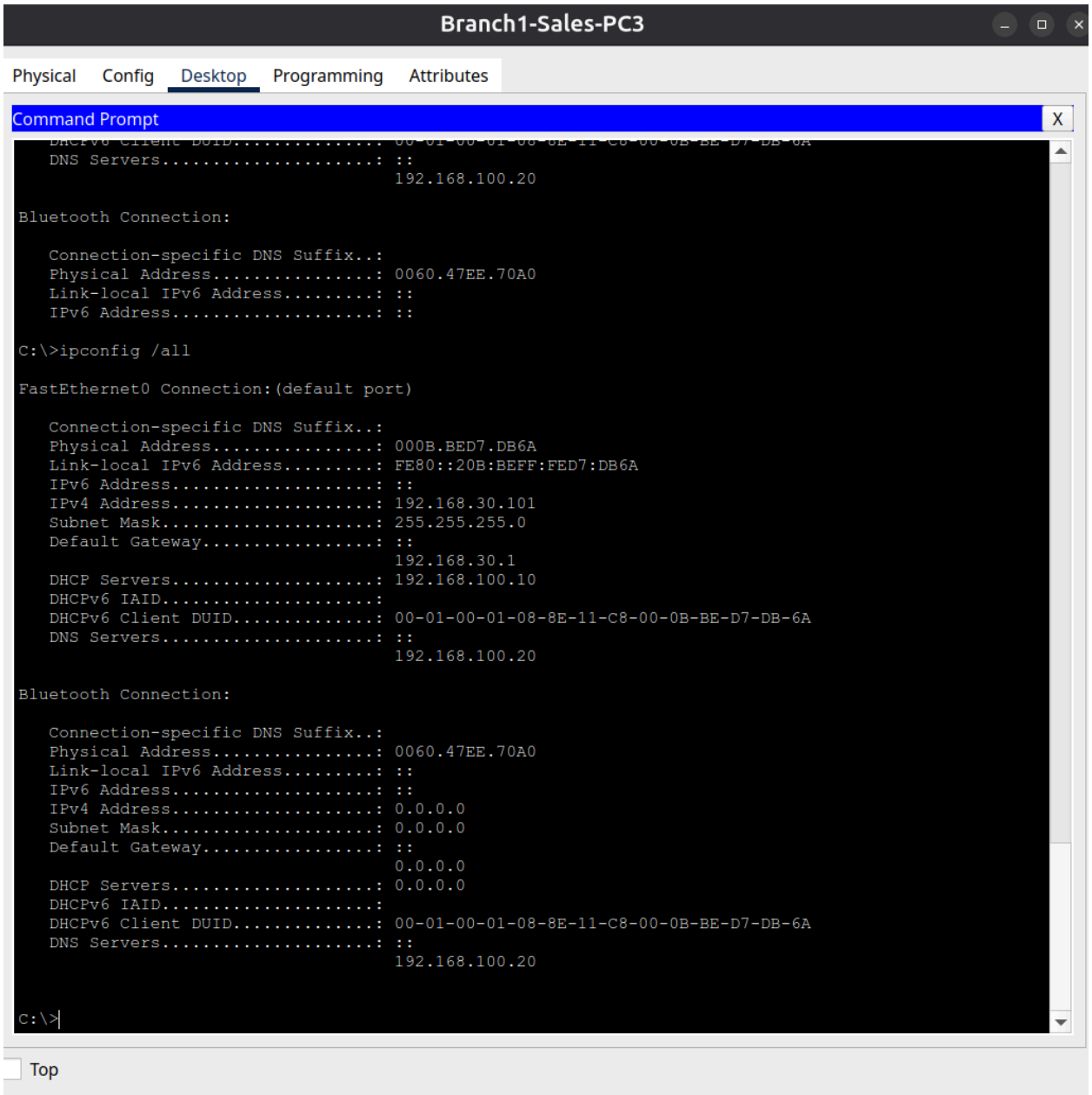
dhcp for vlan of hr b1



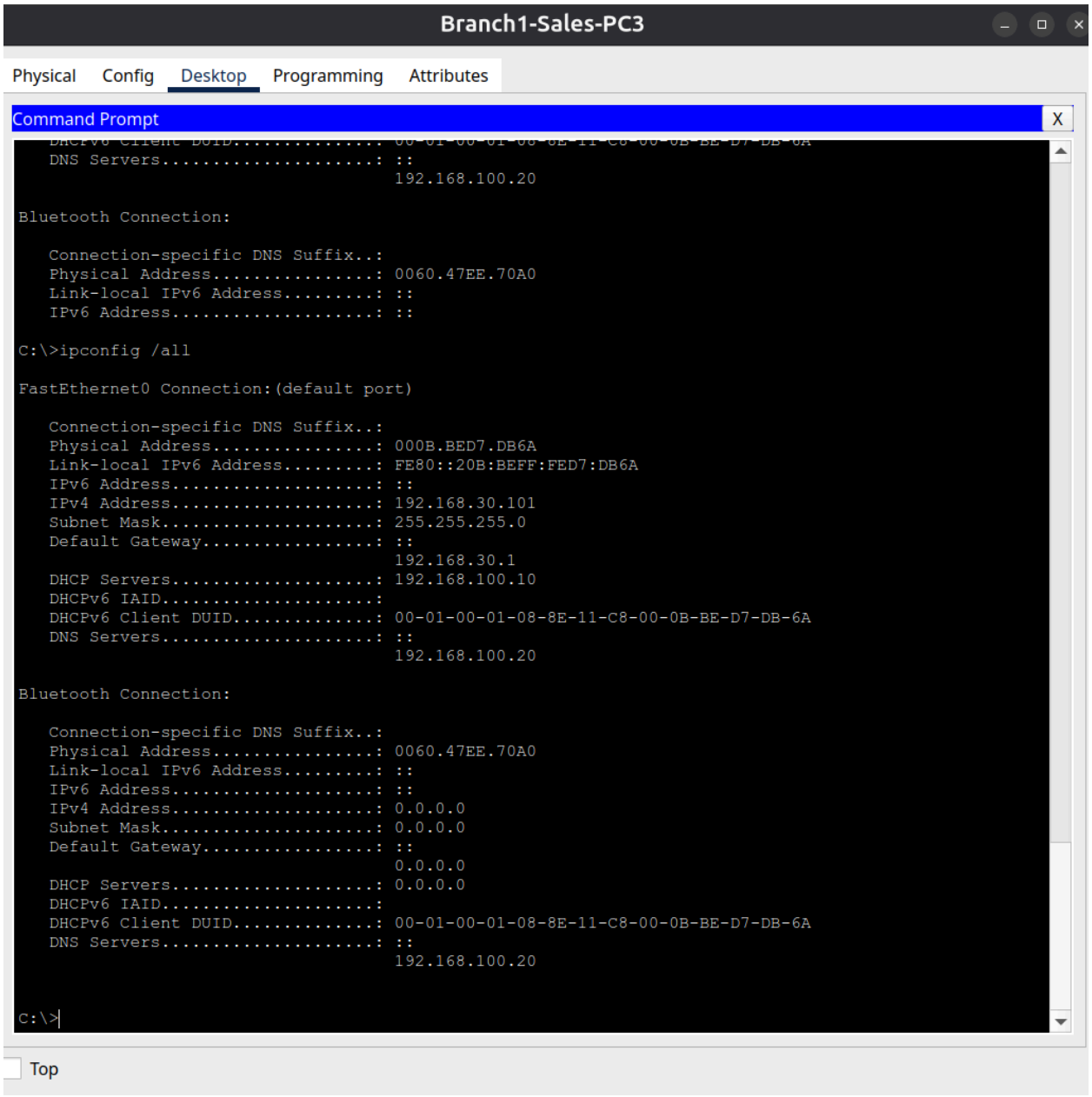
dhcp hr b2


Branch2-HR-PC2
Physical
Config
Desktop
Programming
Attributes
Command Prompt
X
Cisco Packet Tracer PC Command Line 1.0
C:\>ipconfig /all
FastEthernet0 Connection:(default port)
Connection-specific DNS Suffix..:
Physical Address.....: 0060.5C89.A4C8
Link-local IPv6 Address.....: FE80::260:5CFF:FE89:A4C8
IPv6 Address.....: ::
IPv4 Address.....: 192.168.40.102
Subnet Mask.....: 255.255.255.0
Default Gateway.....: ::
192.168.40.1
DHCP Servers.....: 192.168.100.10
DHCPv6 IAID.....:
DHCPv6 Client DUID.....: 00-01-00-01-25-AA-BE-41-00-60-5C-89-A4-C8
DNS Servers.....: ::
192.168.100.20
Bluetooth Connection:
Connection-specific DNS Suffix..:
Physical Address.....: 0050.0F24.7838
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.....: 00-01-00-01-25-AA-BE-41-00-60-5C-89-A4-C8
DNS Servers.....: ::
192.168.100.20
C:\>
Top

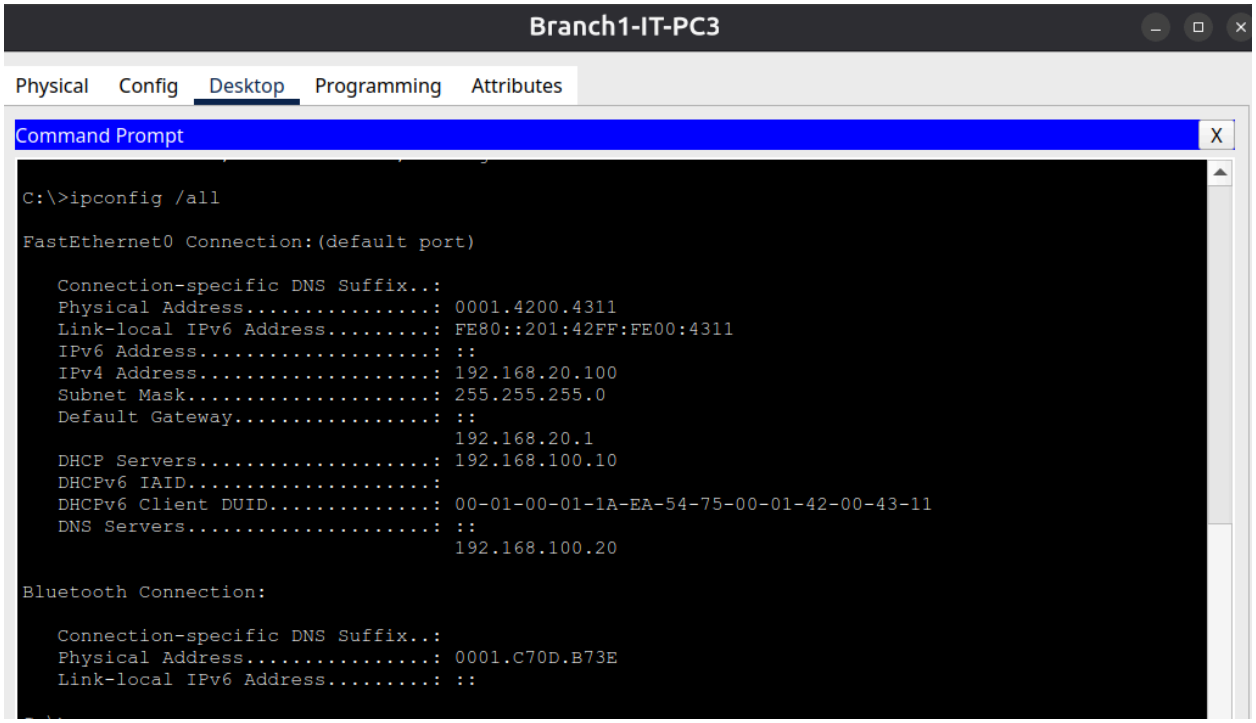
dhcp sales b1 - Copy



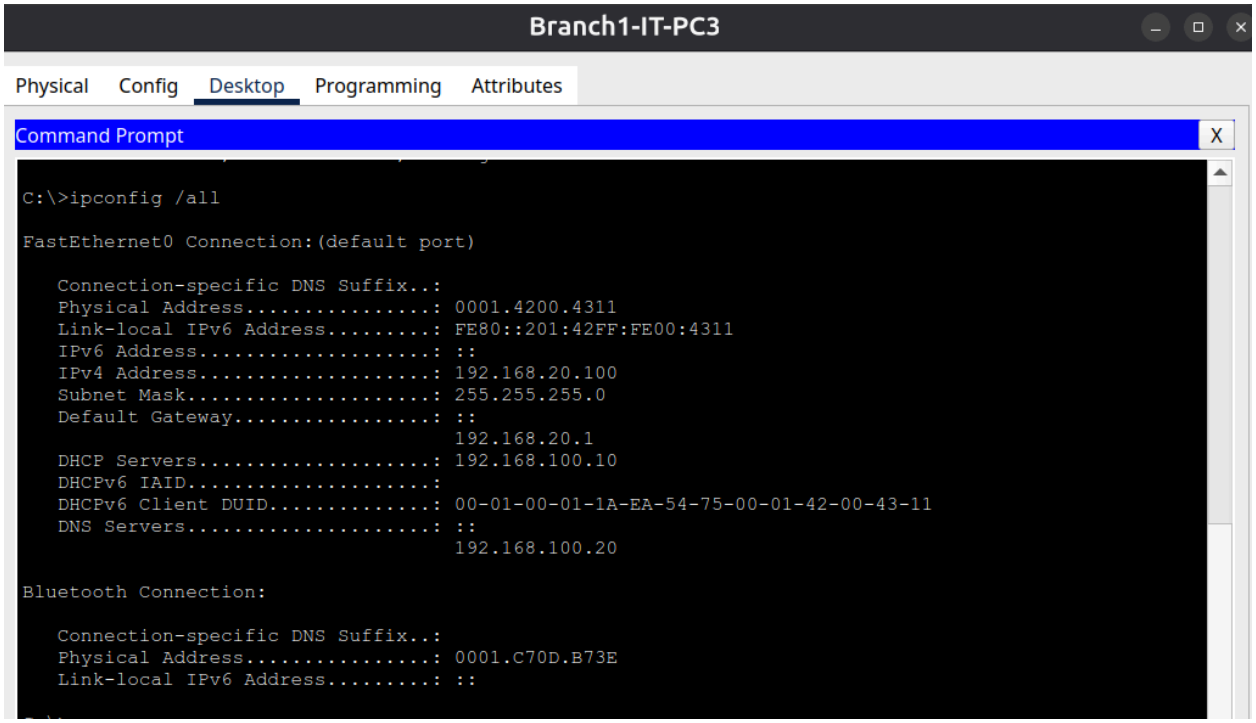
dhcp sales b1



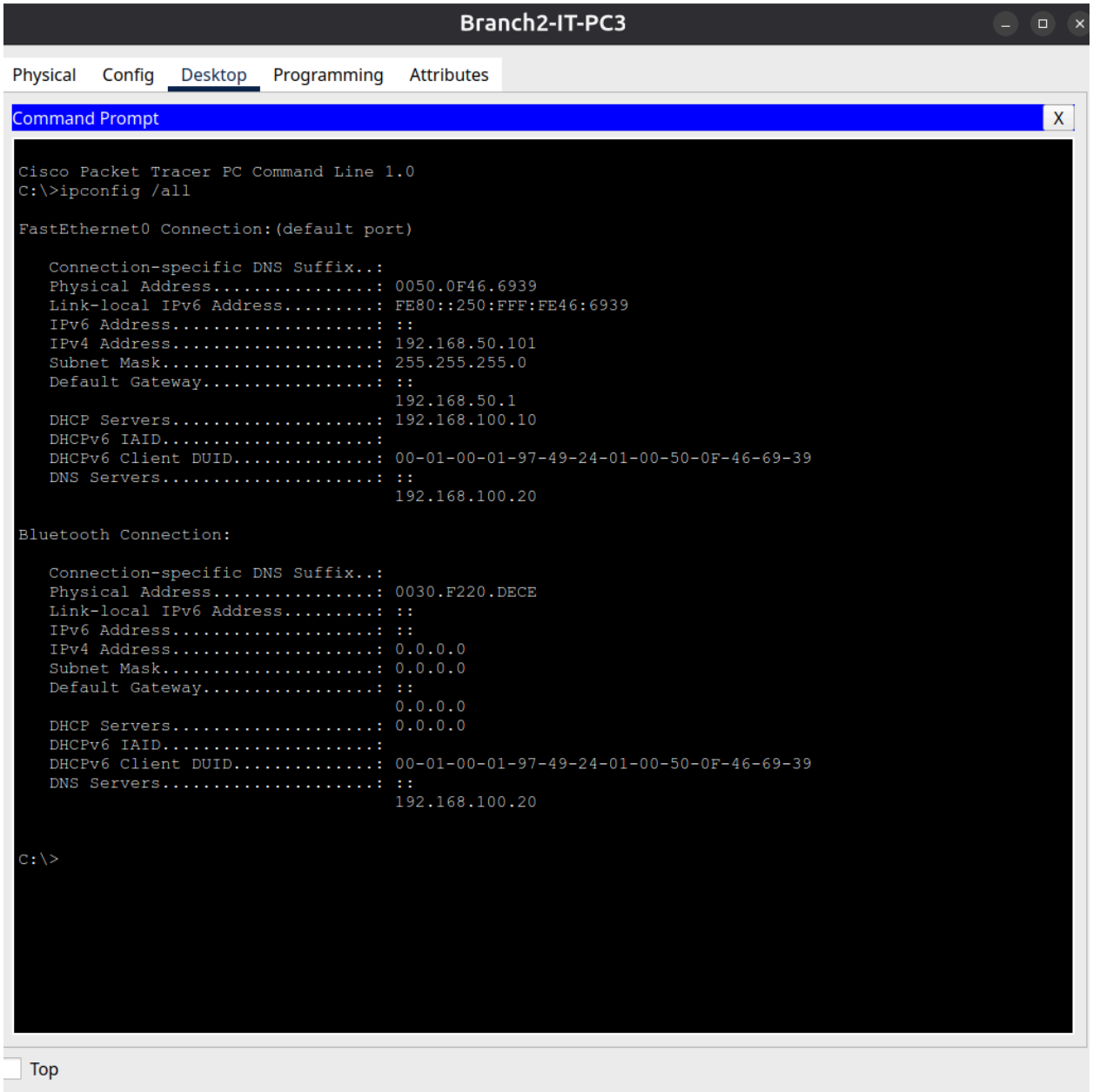
dhcp sales vlan of b2 - Copy



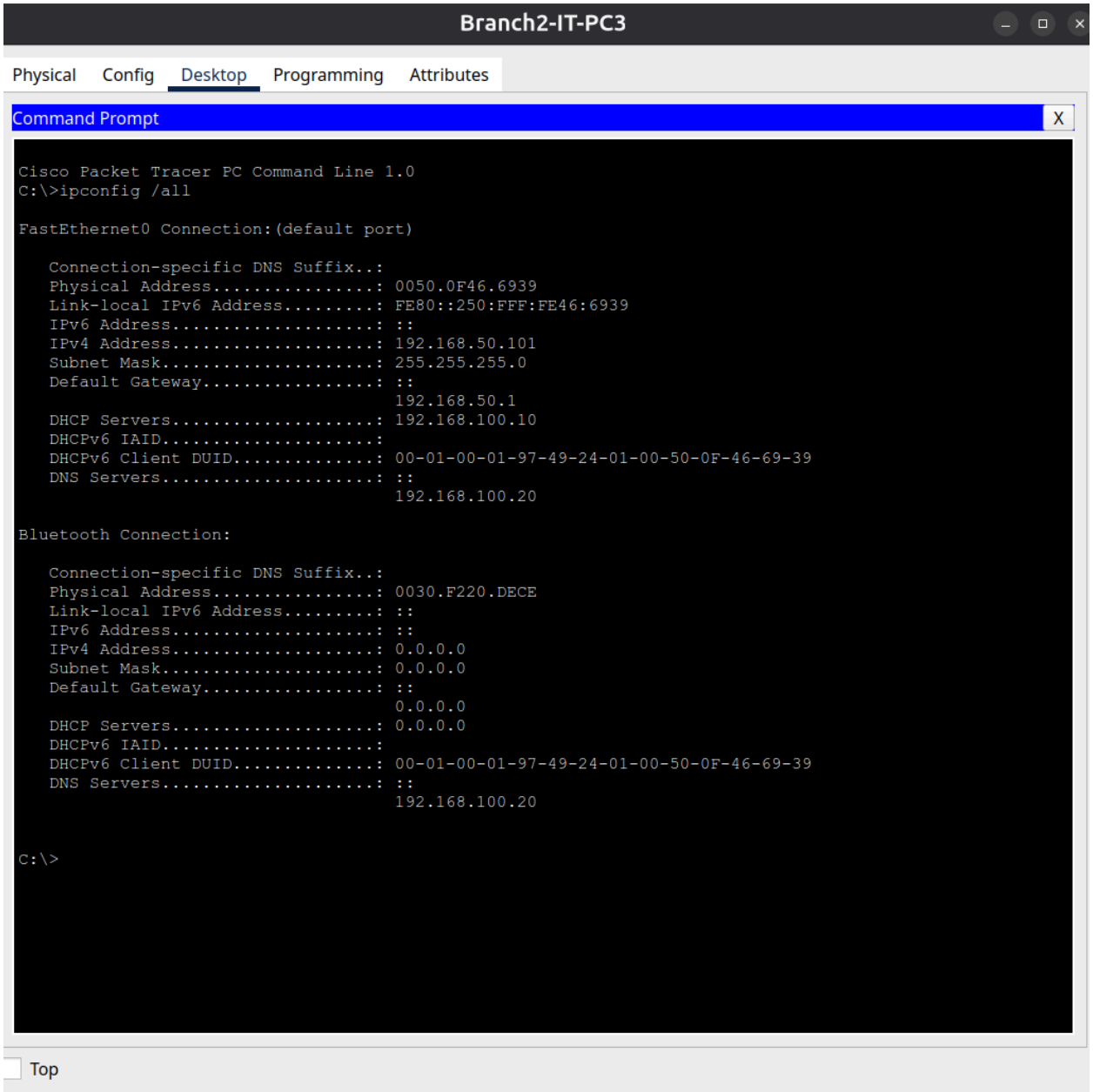
dhcp vlan of IT b1



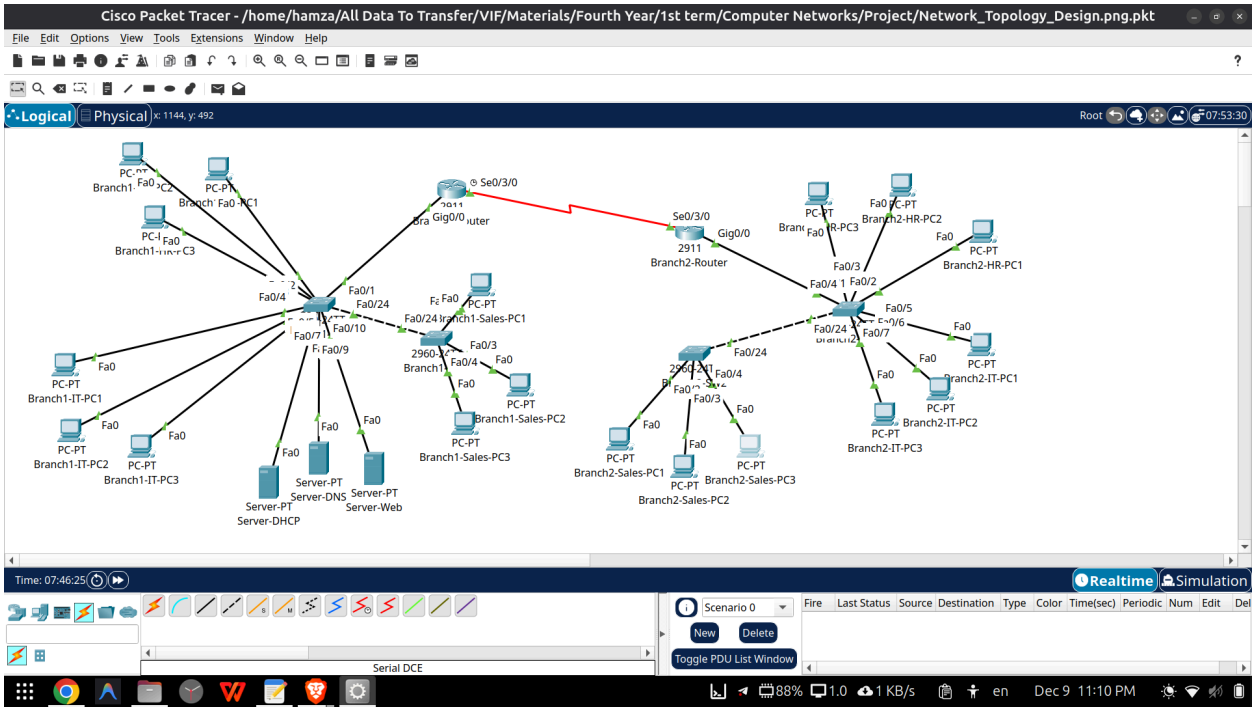
IT b2 dhcp - Copy



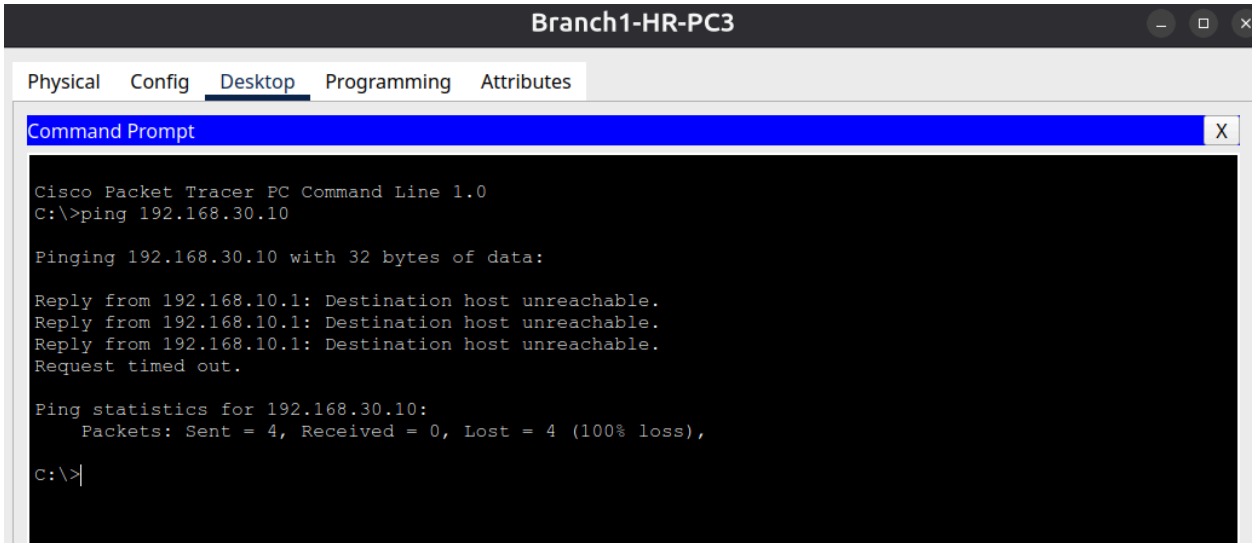
IT b2 dhcp


Branch2-IT-PC3
Physical
Config
Desktop
Programming
Attributes
Command Prompt
X
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

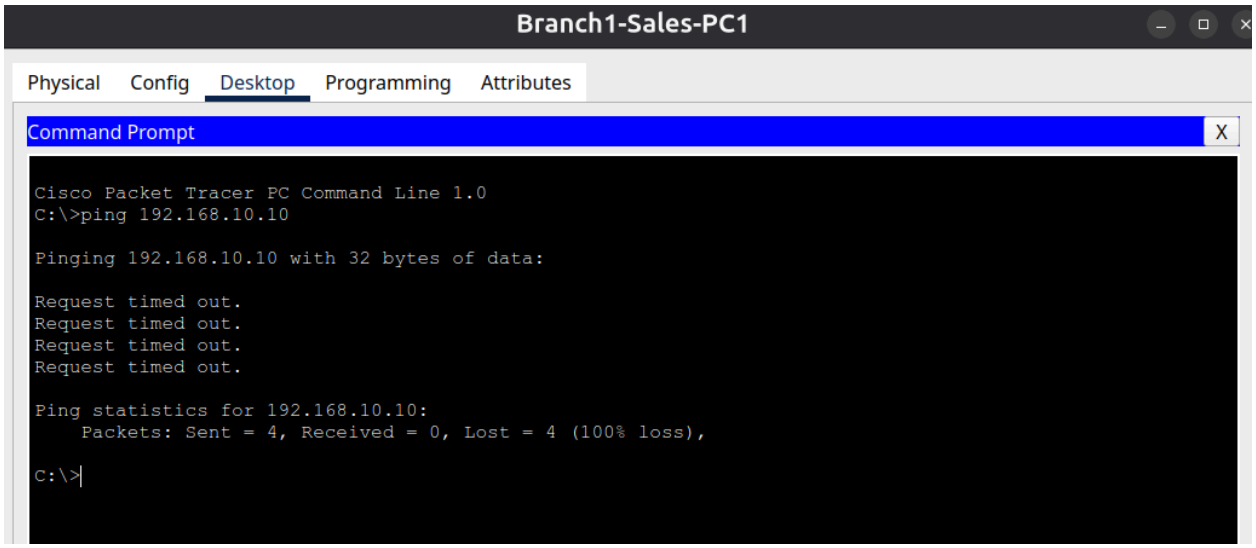
Pasted image



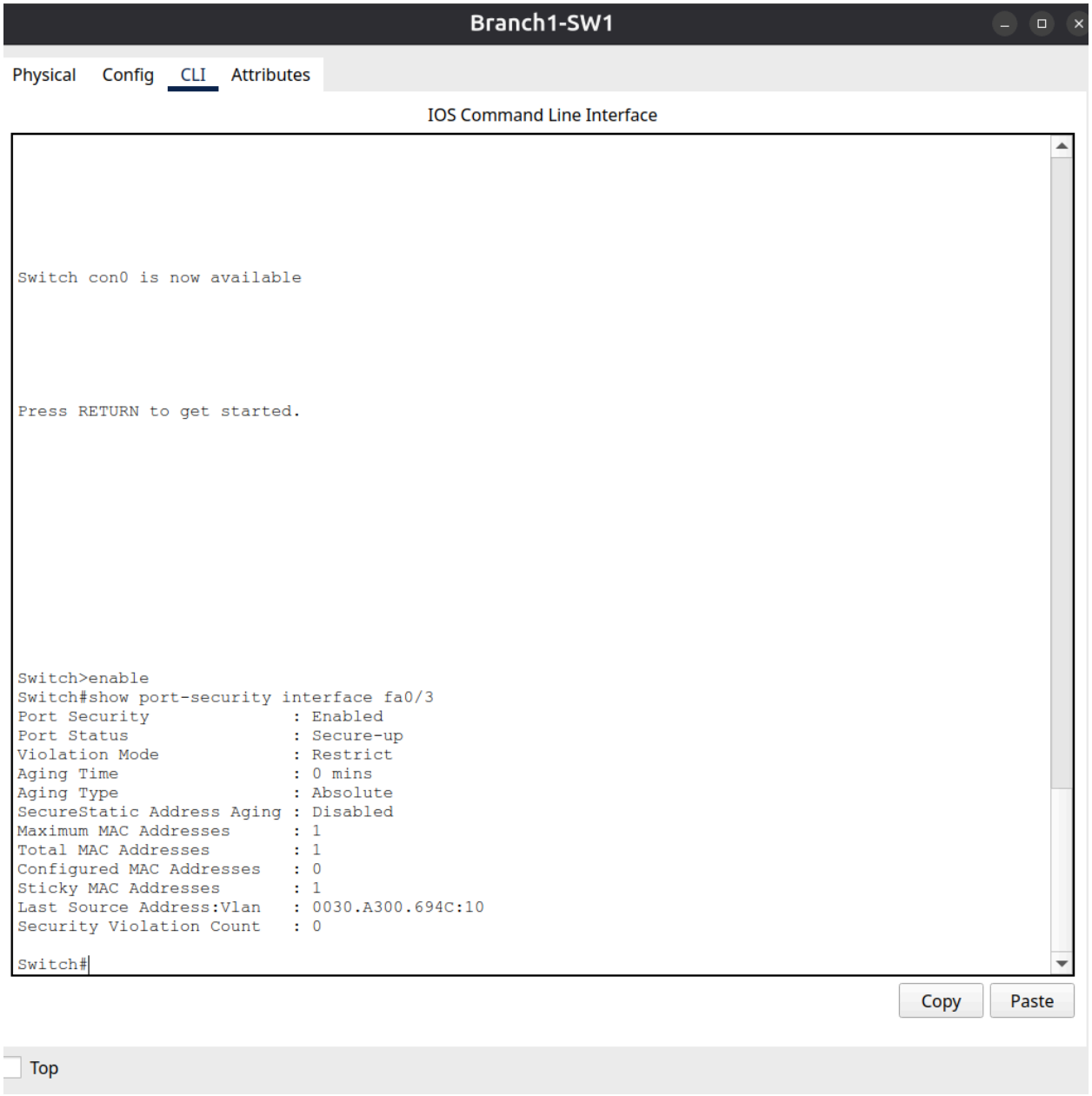
ping from hr pc to sales pc in same branch



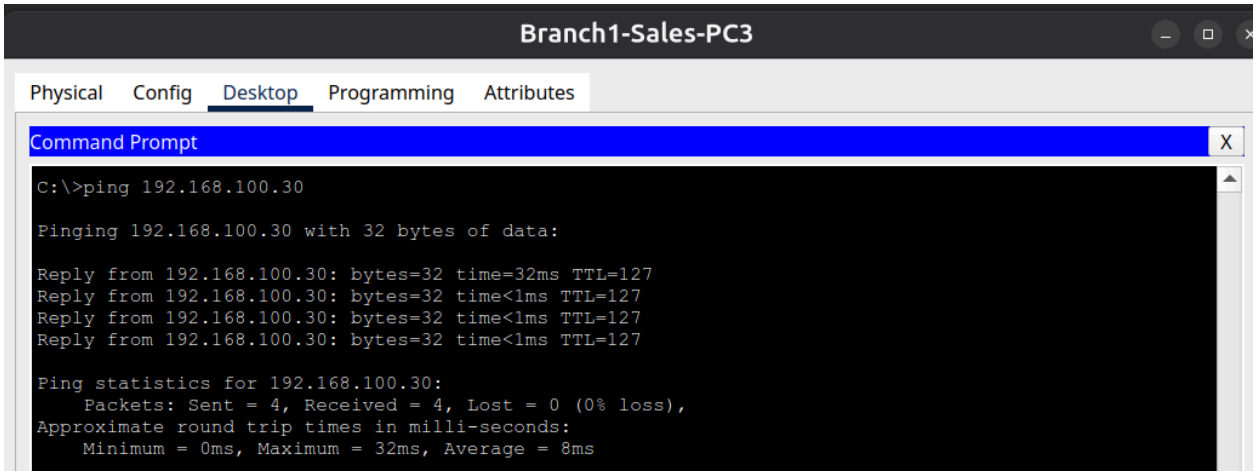
ping from sales to hr same branch



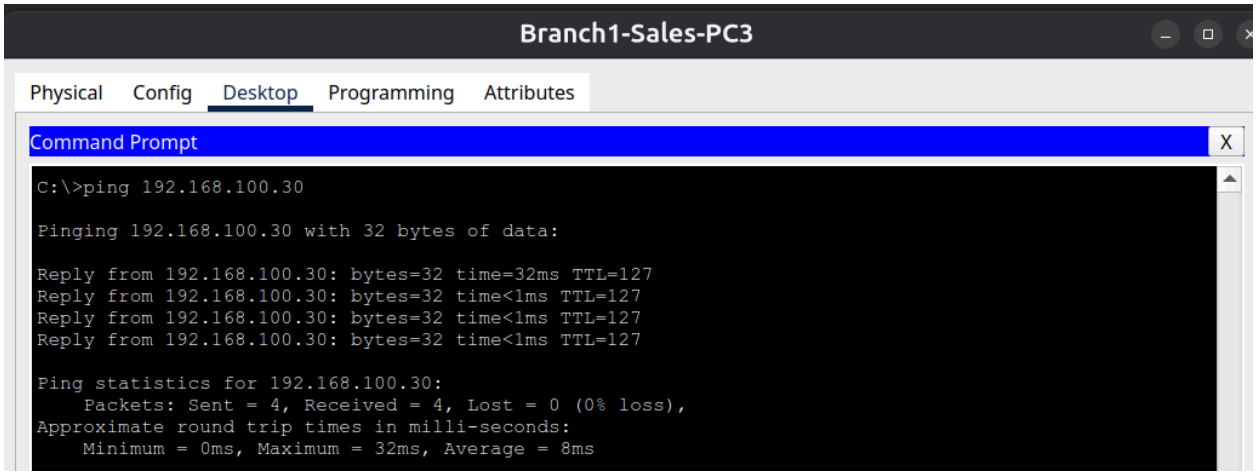
port security



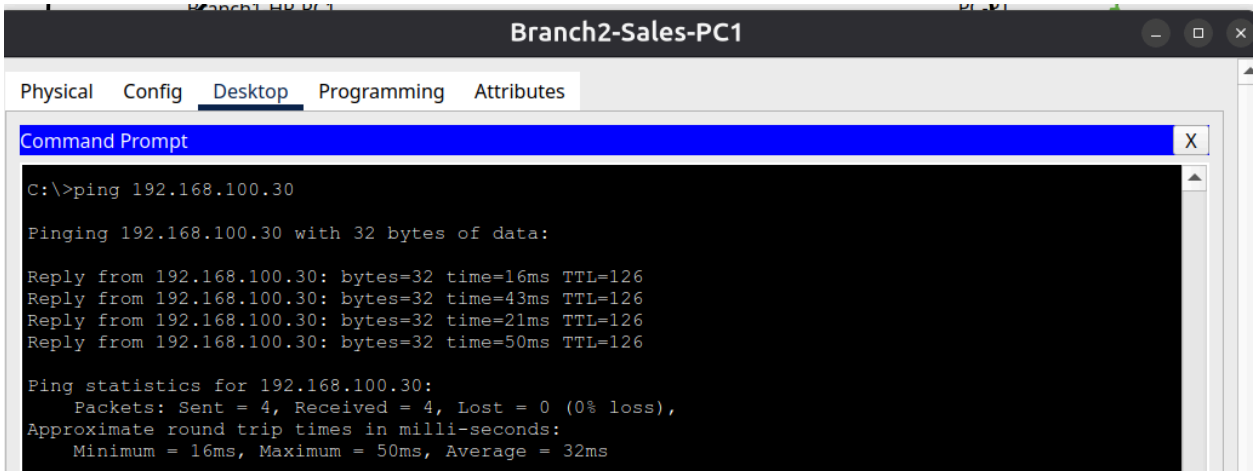
Sales Branch 1_ to server - Copy



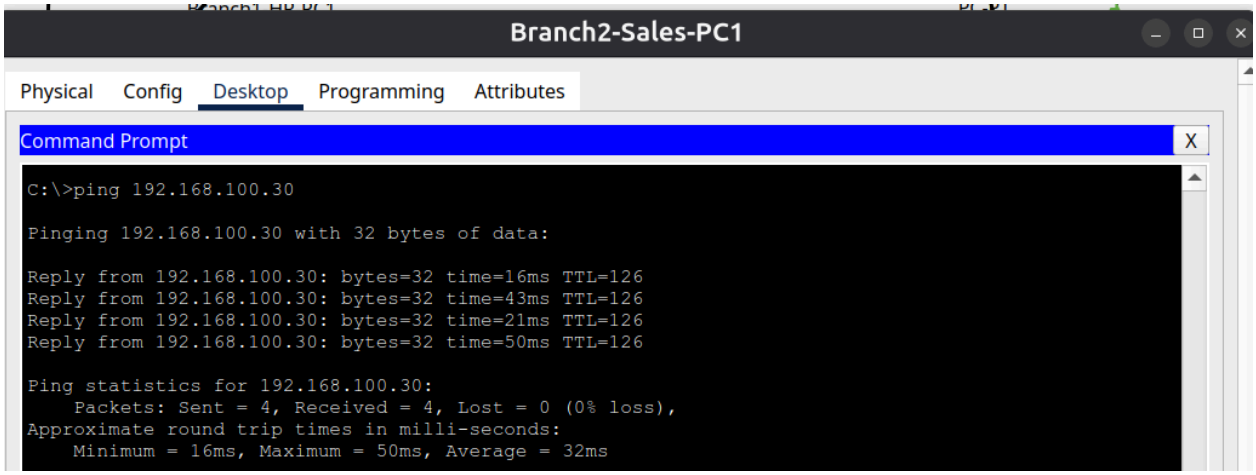
Sales Branch 1_ to server



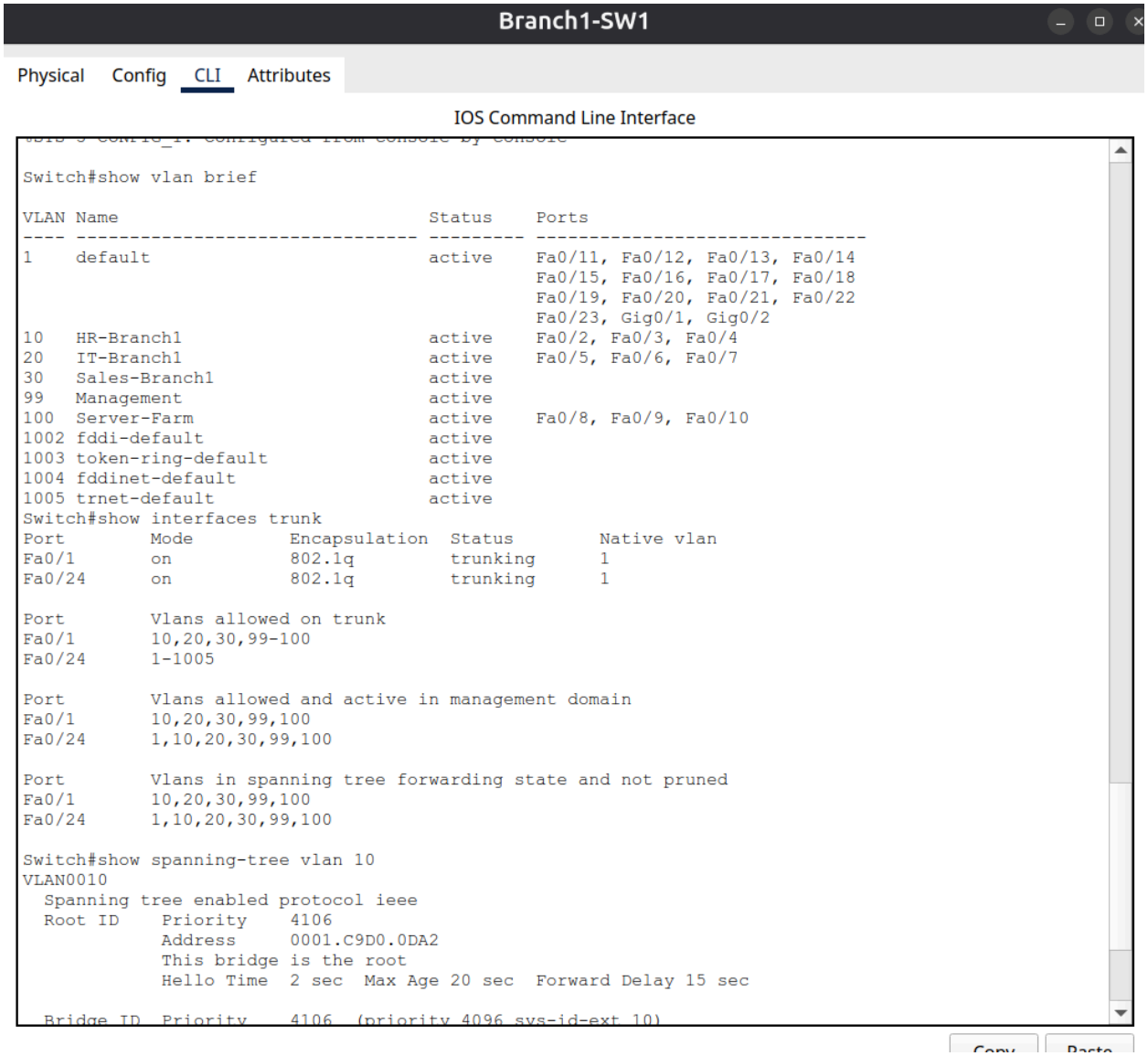
Sales Branch 2 to server - Copy



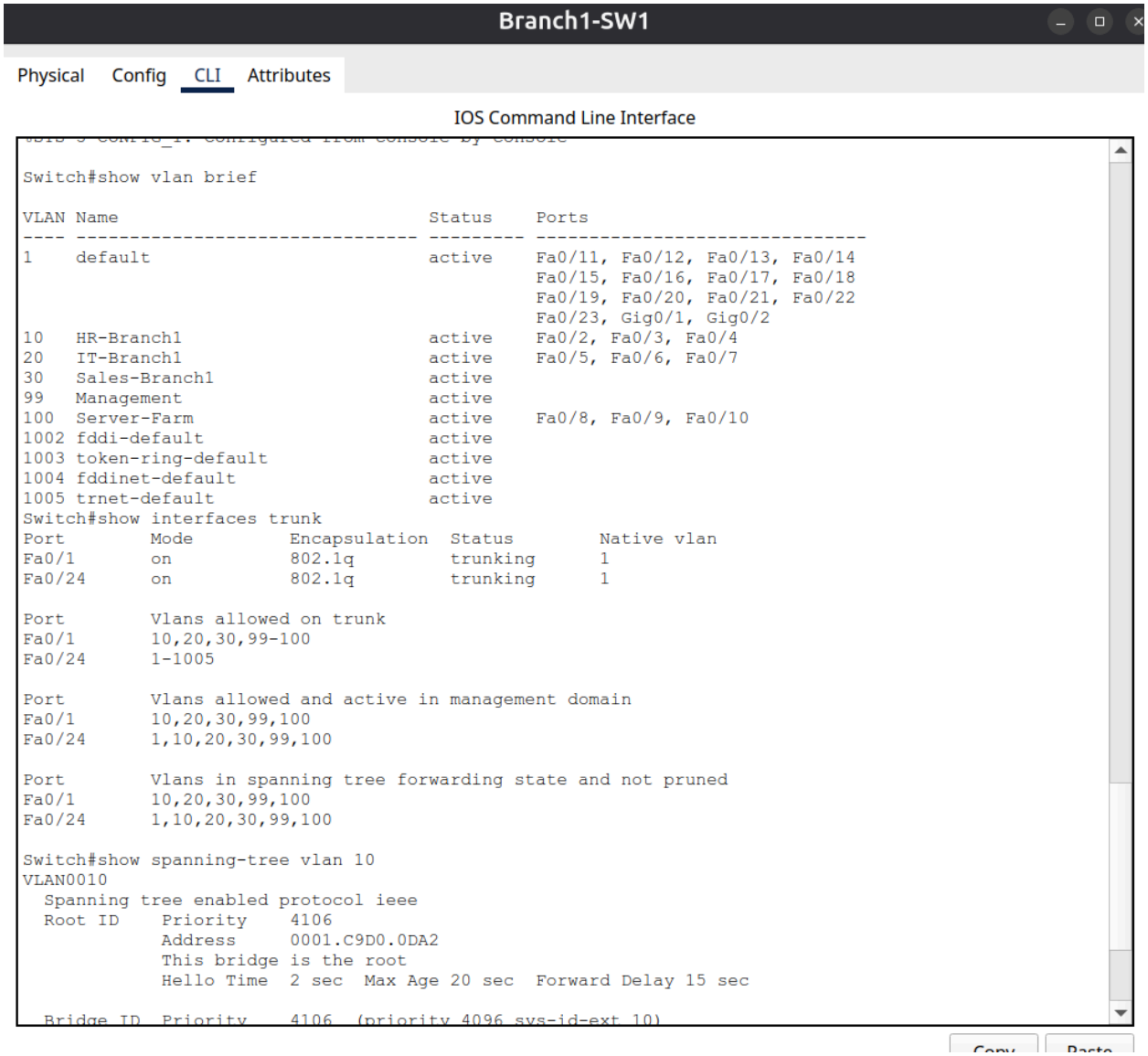
Sales Branch 2 to server



sw1B1 p1 - Copy



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)

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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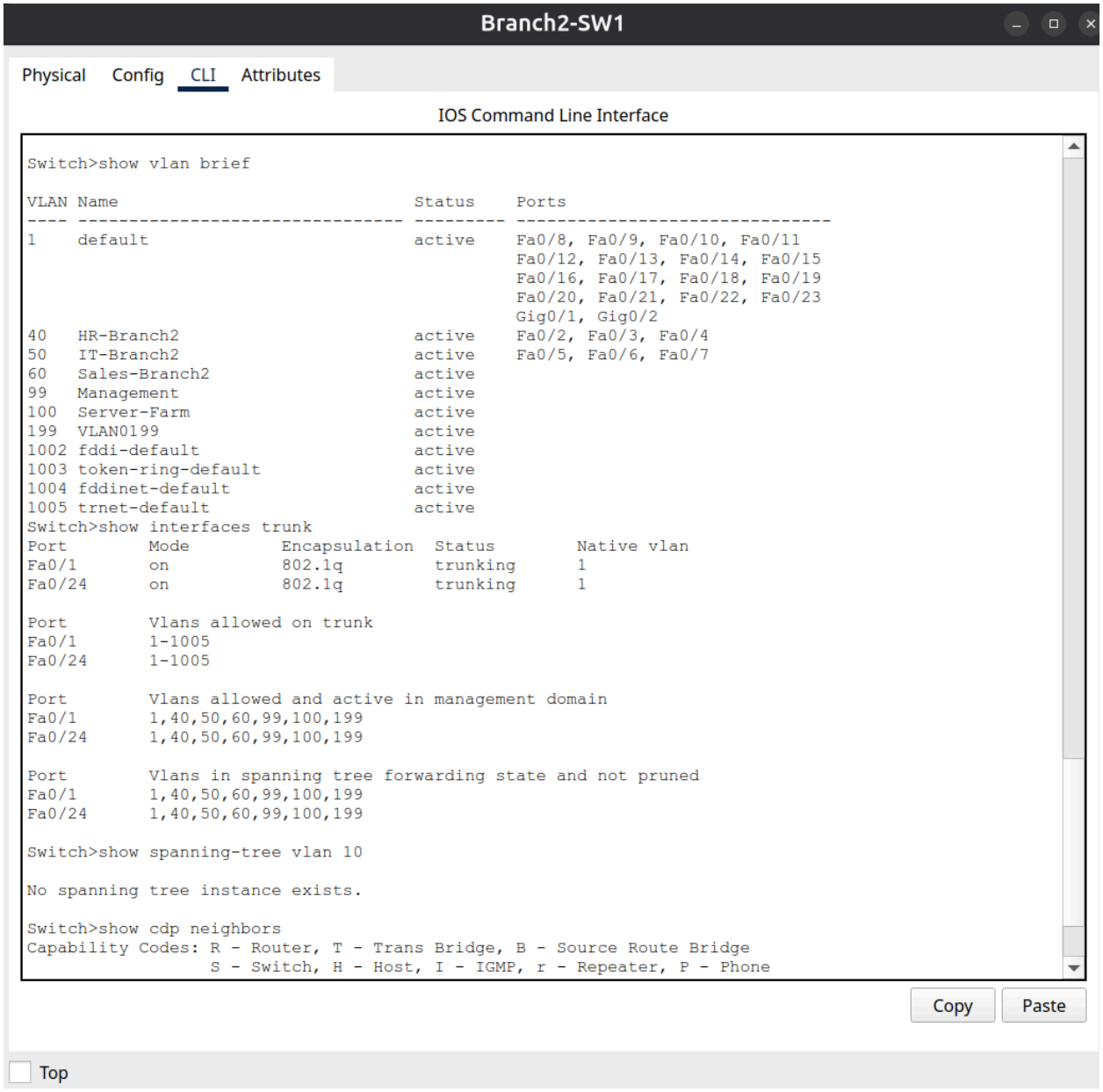
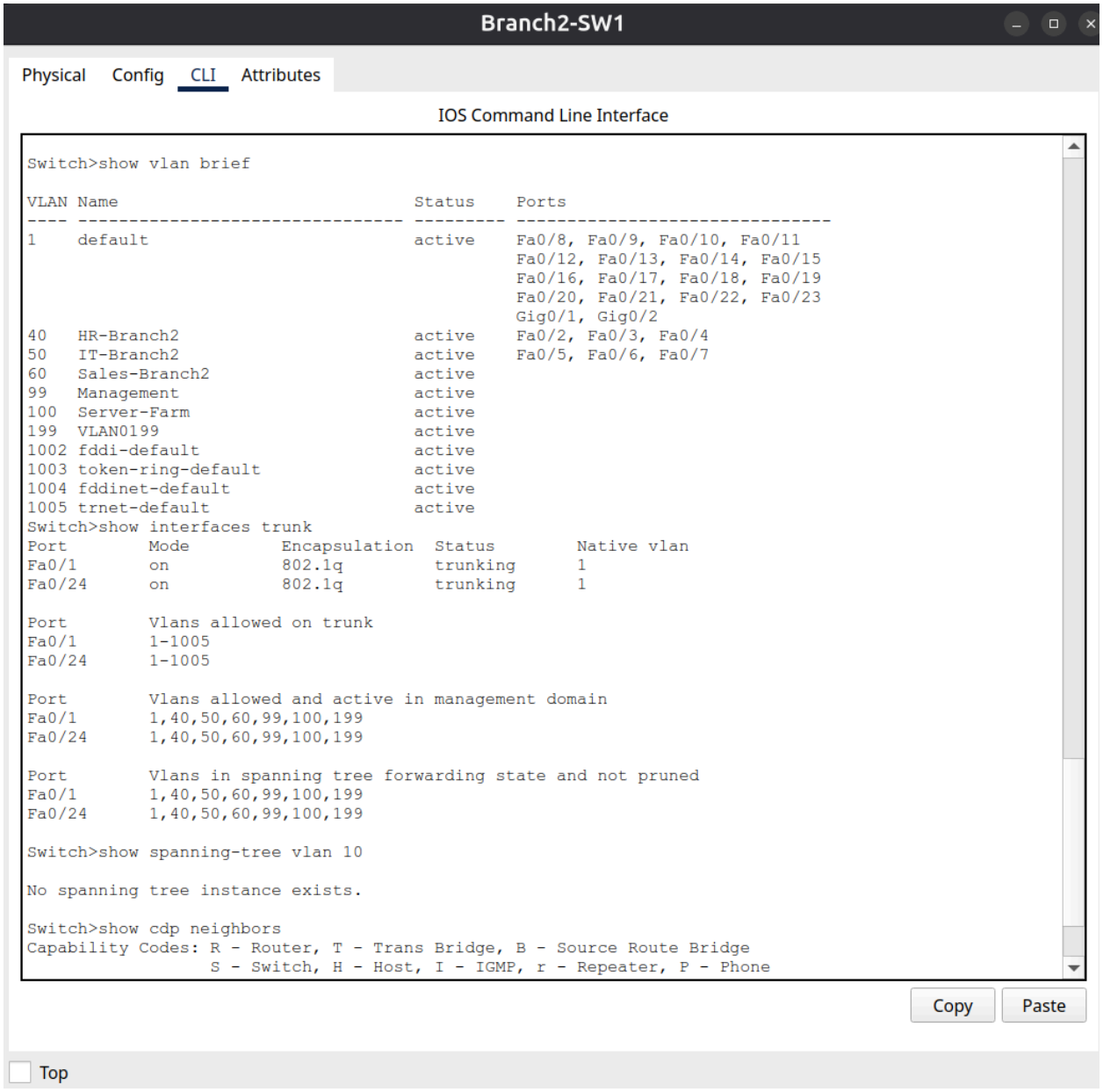
sw1B2 p1 - Copy



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
Copy
Paste
Top

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>
```

Copy Paste

Top

---

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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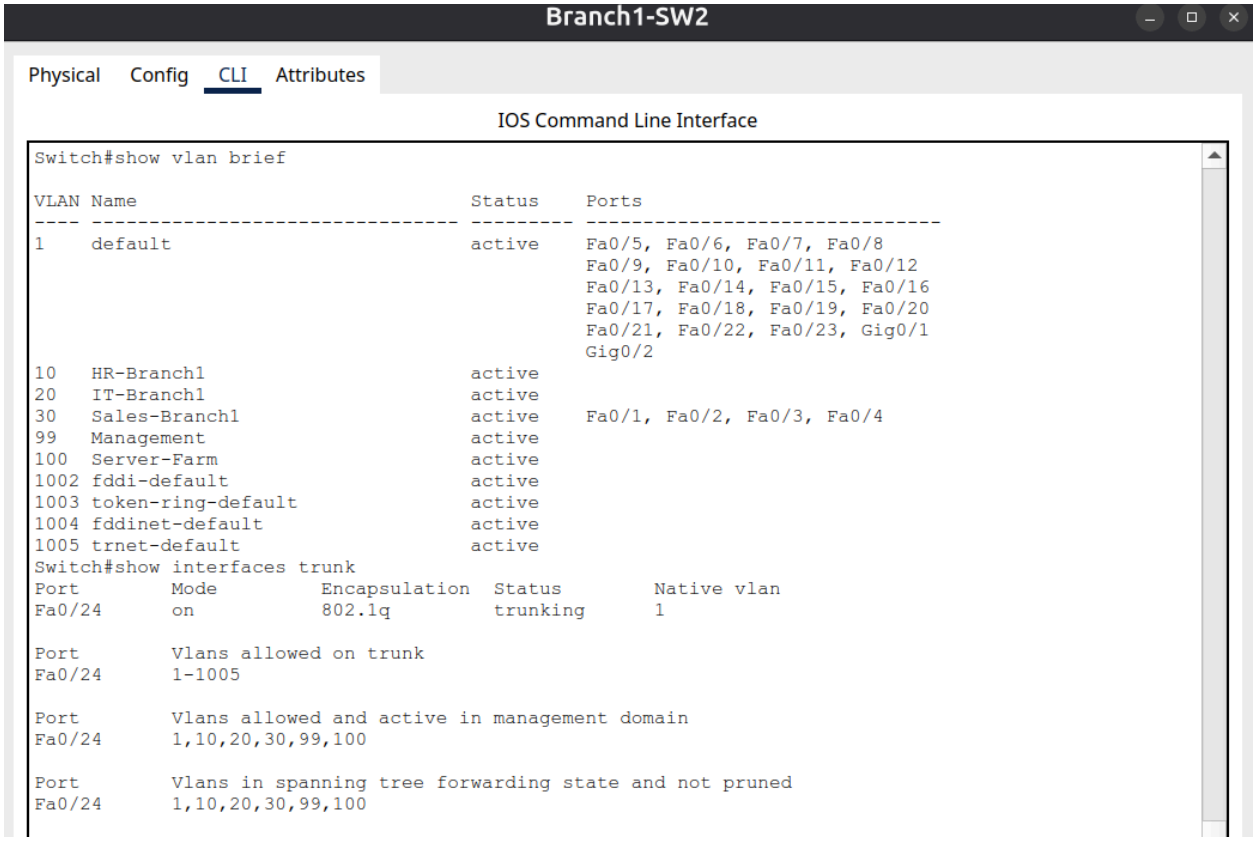
Top

---

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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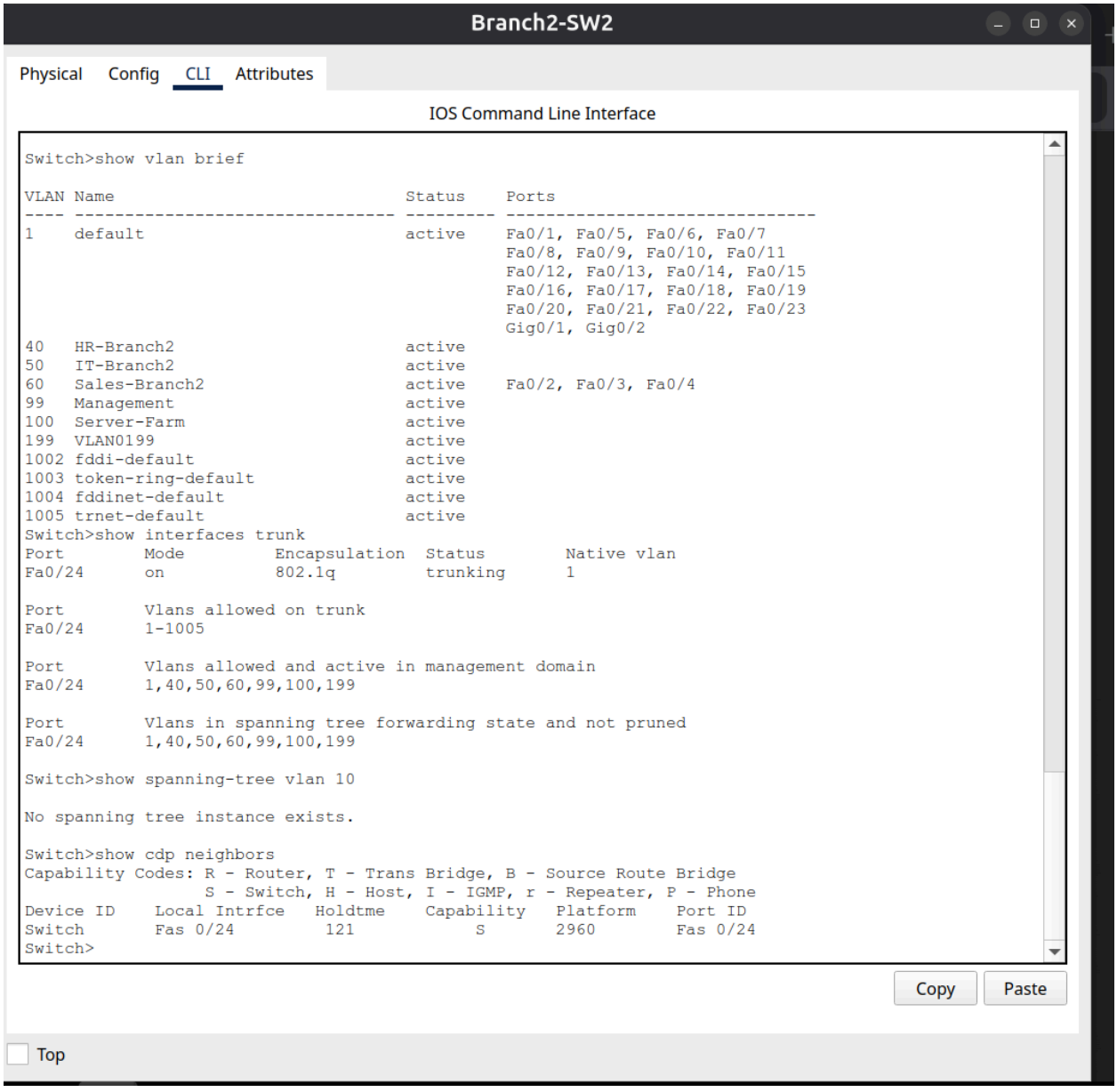
Top

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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