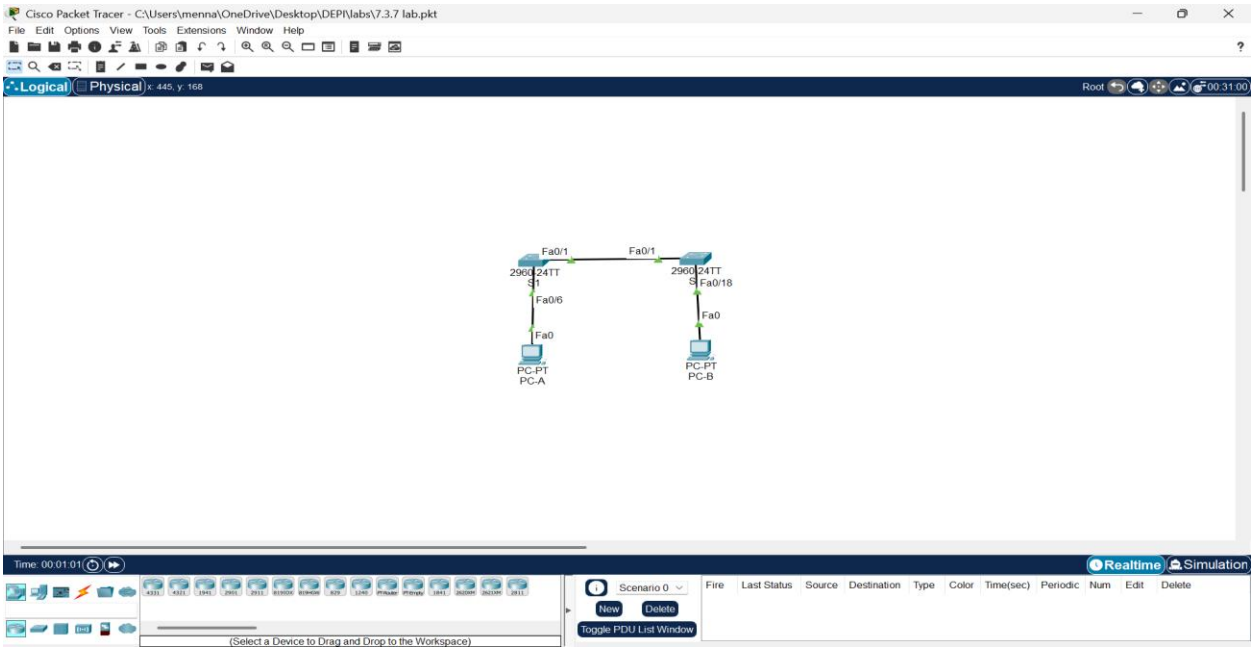
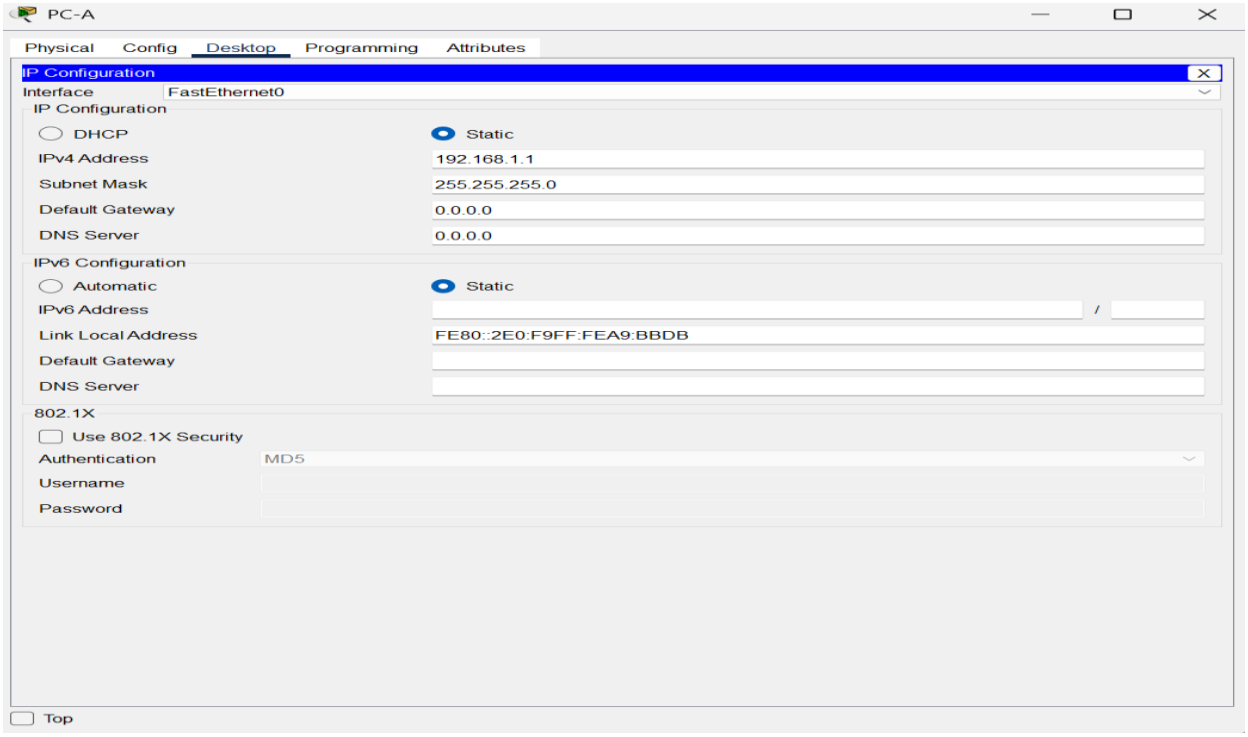
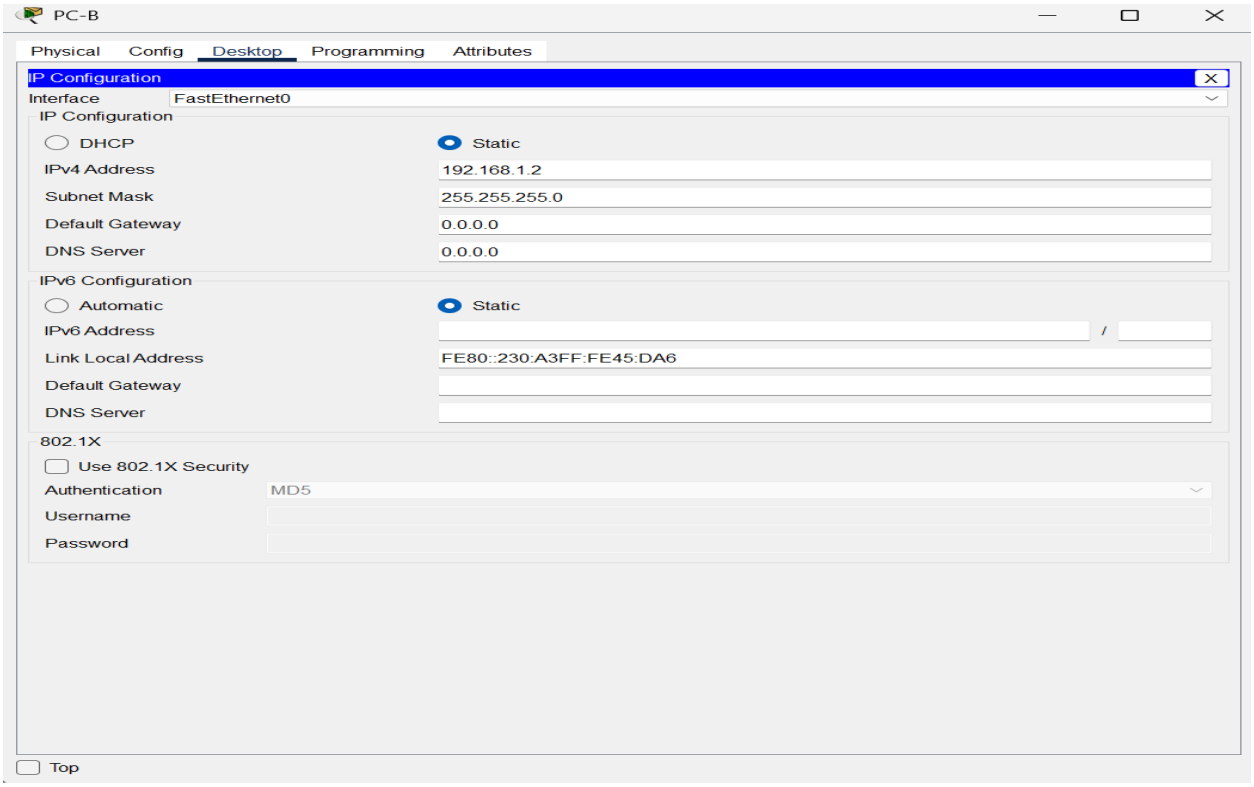
Part 1:

- Step 1

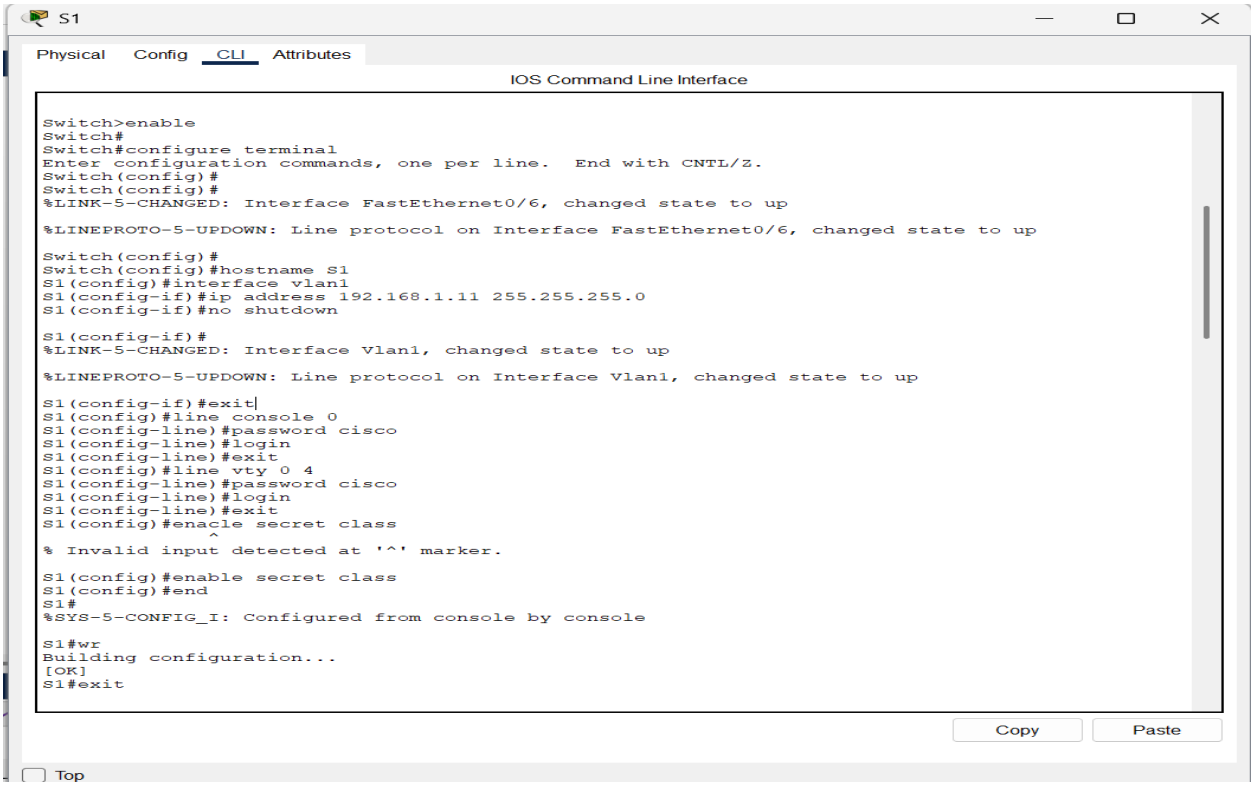


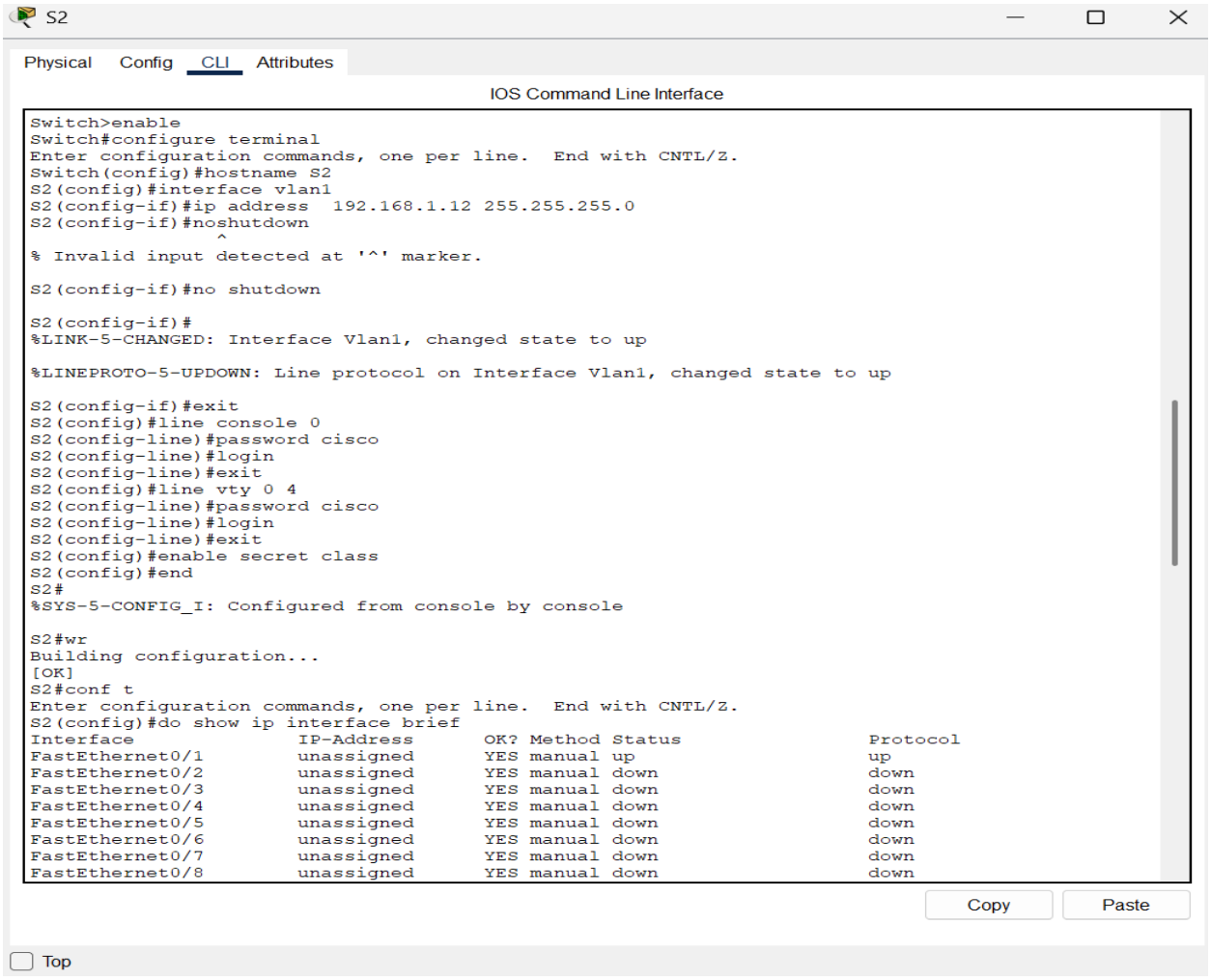
- Step 2




PC-B
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::230:A3FF:FE45:DA6
Default Gateway
DNS Server
802.1X
Use 802.1X Security
Authentication
MD5
Username
Password
Top

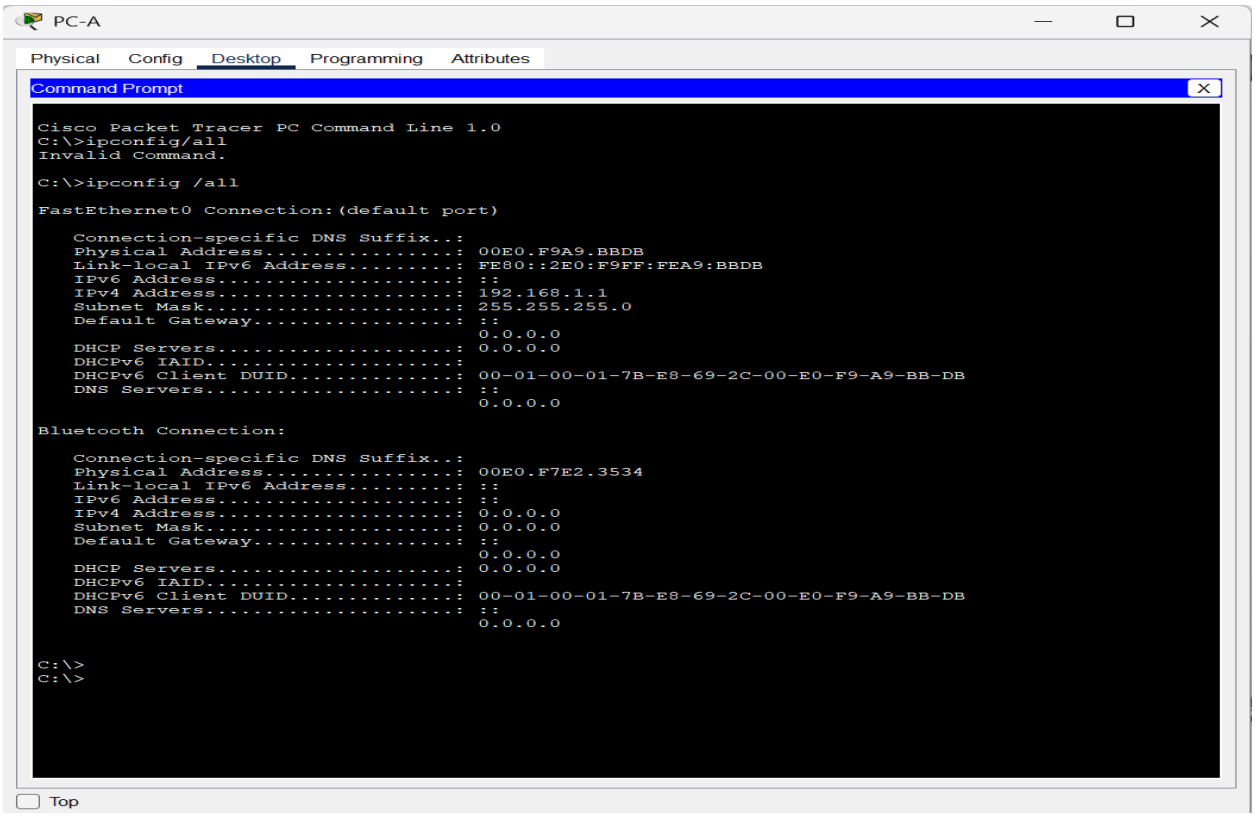
- Step 3 & 4

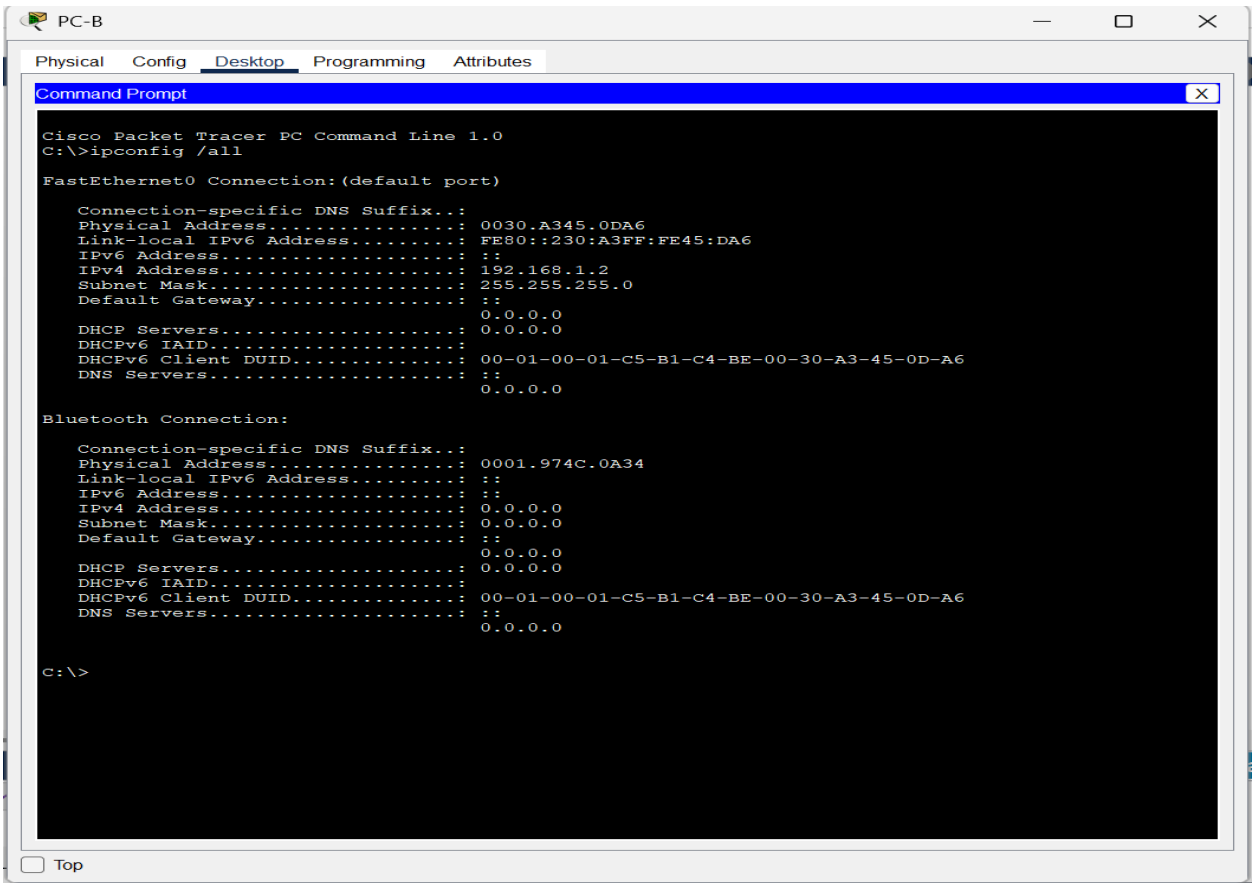

S1
Physical
Config
CLI
Attributes
IOS Command Line Interface
Switch>enable
Switch#
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#
Switch(config)#
%LINK-5-CHANGED: Interface FastEthernet0/6, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/6, changed state to up
Switch(config)#
Switch(config)#hostname S1
S1(config)#interface vlan1
S1(config-if)#ip address 192.168.1.11 255.255.255.0
S1(config-if)#no shutdown
S1(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
S1(config-if)#exit
S1(config)#line console 0
S1(config-line)#password cisco
S1(config-line)#login
S1(config-line)#exit
S1(config)#line vty 0 4
S1(config-line)#password cisco
S1(config-line)#login
S1(config-line)#exit
S1(config)#enacle secret class
^
% Invalid input detected at '^' marker.
S1(config)#enable secret class
S1(config)#end
S1#
%SYS-5-CONFIG_I: Configured from console by console
S1#wr
Building configuration...
[OK]
S1#exit
Copy
Paste
Top

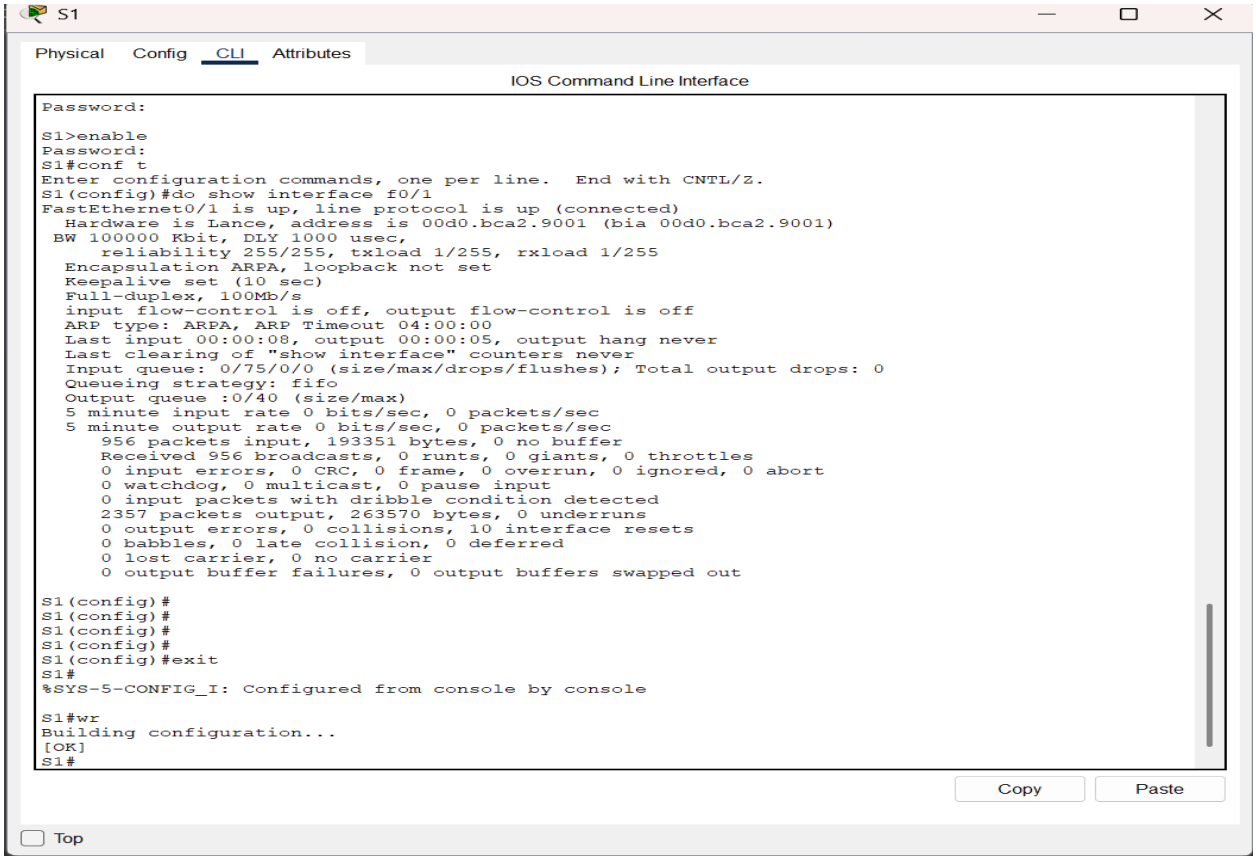

S2
Physical
Config
CLI
Attributes
IOS Command Line Interface
Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname S2
S2(config)#interface vlan1
S2(config-if)#ip address 192.168.1.12 255.255.255.0
S2(config-if)#noshutdown
^
% Invalid input detected at '^' marker.
S2(config-if)#no shutdown
S2(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
S2(config-if)#exit
S2(config)#line console 0
S2(config-line)#password cisco
S2(config-line)#login
S2(config-line)#exit
S2(config)#line vty 0 4
S2(config-line)#password cisco
S2(config-line)#login
S2(config-line)#exit
S2(config)#enable secret class
S2(config)#end
S2#
%SYS-5-CONFIG_I: Configured from console by console
S2#wr
Building configuration...
[OK]
S2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
S2(config)#do show ip interface brief
Interface IP-Address OK? Method Status Protocol
FastEthernet0/1 unassigned YES manual up up
FastEthernet0/2 unassigned YES manual down down
FastEthernet0/3 unassigned YES manual down down
FastEthernet0/4 unassigned YES manual down down
FastEthernet0/5 unassigned YES manual down down
FastEthernet0/6 unassigned YES manual down down
FastEthernet0/7 unassigned YES manual down down
FastEthernet0/8 unassigned YES manual down down
Copy
Paste
Top

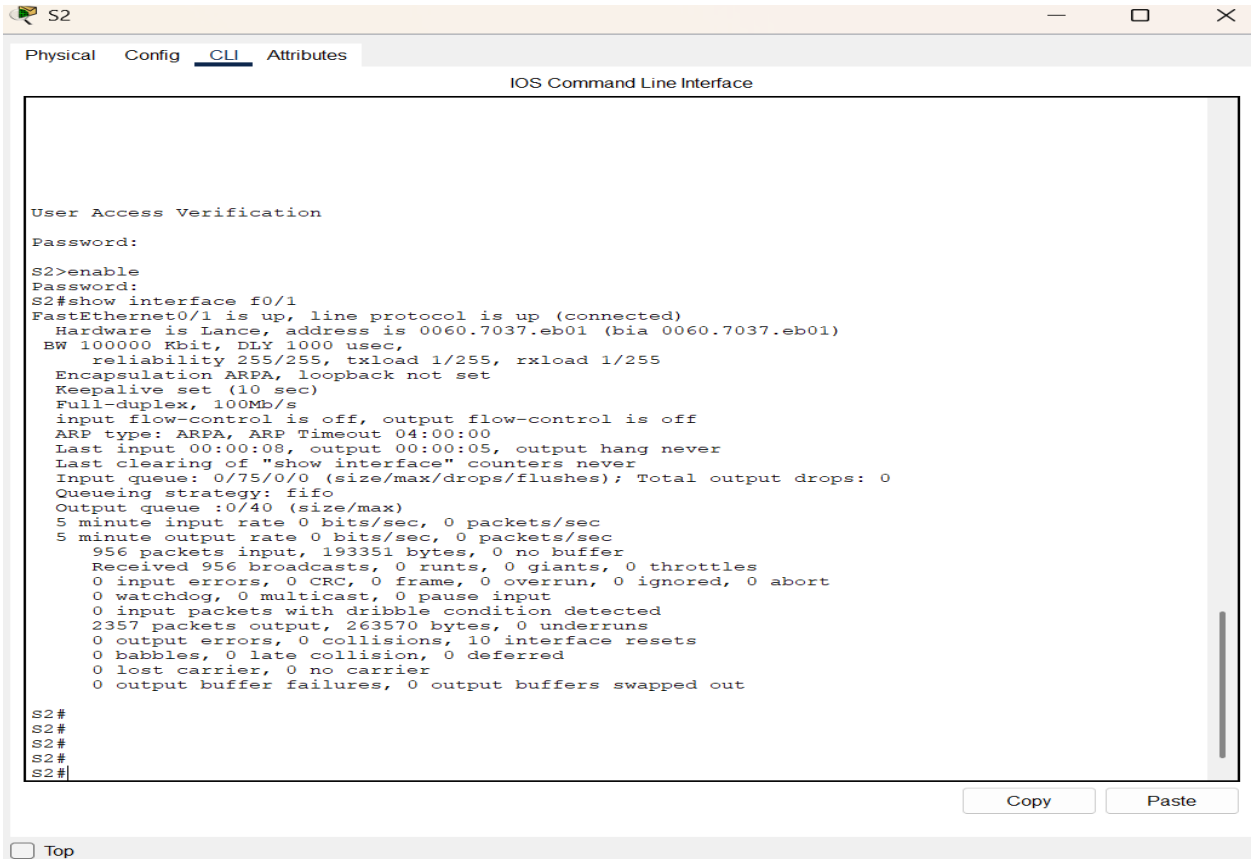
Part 2:

- Step 1

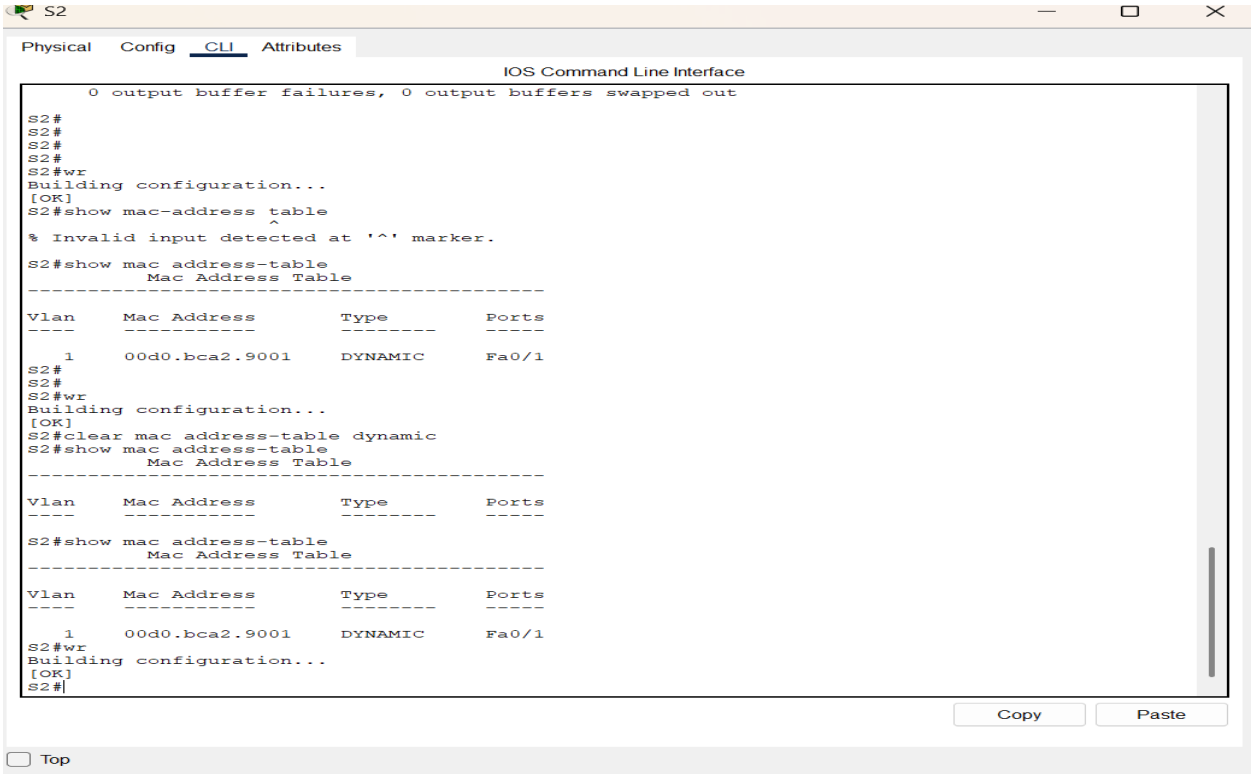

PC-A
Physical
Config
Desktop
Programming
Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ipconfig/all
Invalid Command.
C:\>ipconfig /all
FastEthernet0 Connection:(default port)
Connection-specific DNS Suffix..:
Physical Address.....: 00E0.F9A9.BBDB
Link-local IPv6 Address.....: FE80::2E0:F9FF:FEA9:BBDB
IPv6 Address.....: ::
IPv4 Address.....: 192.168.1.1
Subnet Mask.....: 255.255.255.0
Default Gateway.....: ::
0.0.0.0
DHCP Servers.....: 0.0.0.0
DHCPv6 IAID.....:
DHCPv6 Client DUID.....: 00-01-00-01-7B-E8-69-2C-00-E0-F9-A9-BB-DB
DNS Servers.....: ::
0.0.0.0
Bluetooth Connection:
Connection-specific DNS Suffix..:
Physical Address.....: 00E0.F7E2.3534
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.....: 00-01-00-01-7B-E8-69-2C-00-E0-F9-A9-BB-DB
DNS Servers.....: ::
0.0.0.0
C:\>
C:\>
Top

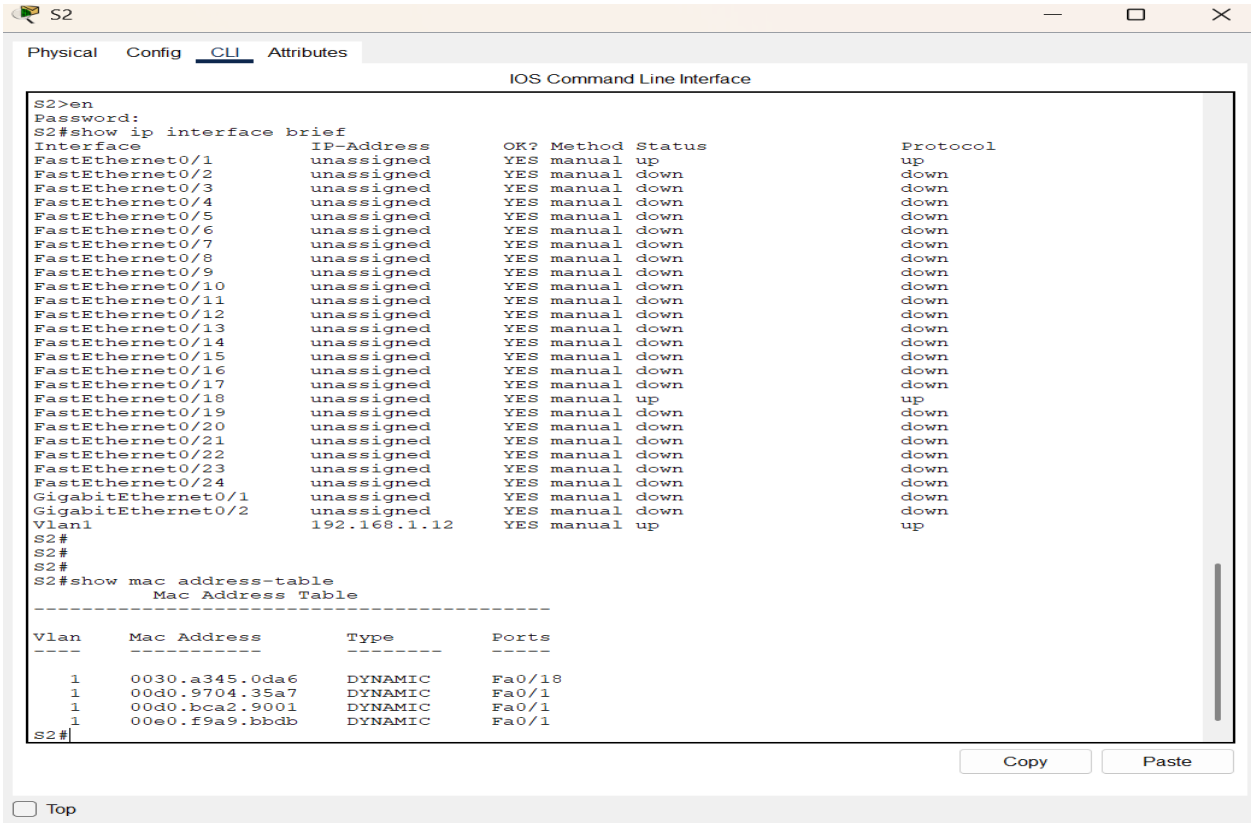

PC-B
Physical
Config
Desktop
Programming
Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ipconfig /all
FastEthernet0 Connection:(default port)
Connection-specific DNS Suffix..:
Physical Address.....: 0030.A345.0DA6
Link-local IPv6 Address.....: FE80::230:A3FF:FE45:DA6
IPv6 Address.....: ::
IPv4 Address.....: 192.168.1.2
Subnet Mask.....: 255.255.255.0
Default Gateway.....: ::
0.0.0.0
DHCP Servers.....: 0.0.0.0
DHCPv6 IAID.....:
DHCPv6 Client DUID.....: 00-01-00-01-C5-B1-C4-BE-00-30-A3-45-0D-A6
DNS Servers.....: ::
0.0.0.0
Bluetooth Connection:
Connection-specific DNS Suffix..:
Physical Address.....: 0001.974C.0A34
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-C5-B1-C4-BE-00-30-A3-45-0D-A6
DNS Servers.....: ::
0.0.0.0
C:\>
Top

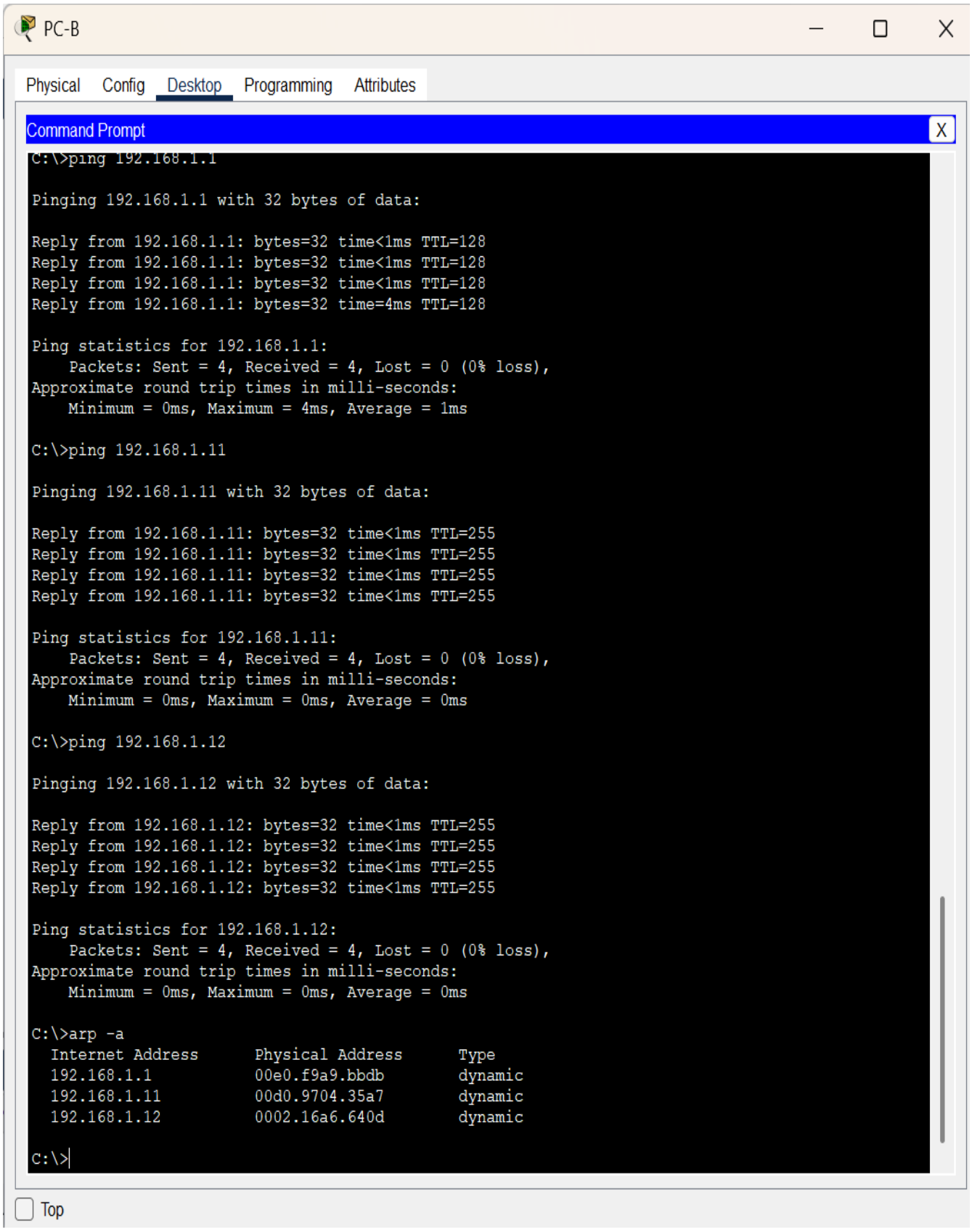

S1
Physical
Config
CLI
Attributes
IOS Command Line Interface
Password:
S1>enable
Password:
S1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
S1(config)#do show interface f0/1
FastEthernet0/1 is up, line protocol is up (connected)
Hardware is Lance, address is 00d0.bca2.9001 (bia 00d0.bca2.9001)
BW 100000 Kbit, DLY 1000 usec,
reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Full-duplex, 100Mb/s
input flow-control is off, output flow-control is off
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:08, output 00:00:05, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue :0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
956 packets input, 193351 bytes, 0 no buffer
Received 956 broadcasts, 0 runts, 0 giants, 0 throttles
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
0 watchdog, 0 multicast, 0 pause input
0 input packets with dribble condition detected
2357 packets output, 263570 bytes, 0 underruns
0 output errors, 0 collisions, 10 interface resets
0 babbles, 0 late collision, 0 deferred
0 lost carrier, 0 no carrier
0 output buffer failures, 0 output buffers swapped out
S1(config)#
S1(config)#
S1(config)#
S1(config)#
S1(config)#exit
S1#
%SYS-5-CONFIG_I: Configured from console by console
S1#wr
Building configuration...
[OK]
S1#
Copy
Paste
Top


S2
Physical
Config
CLI
Attributes
IOS Command Line Interface
User Access Verification
Password:
S2>enable
Password:
S2#show interface f0/1
FastEthernet0/1 is up, line protocol is up (connected)
Hardware is Lance, address is 0060.7037.eb01 (bia 0060.7037.eb01)
BW 100000 Kbit, DLY 1000 usec,
reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Full-duplex, 100Mb/s
input flow-control is off, output flow-control is off
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:08, output 00:00:05, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue :0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
956 packets input, 193351 bytes, 0 no buffer
Received 956 broadcasts, 0 runts, 0 giants, 0 throttles
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
0 watchdog, 0 multicast, 0 pause input
0 input packets with dribble condition detected
2357 packets output, 263570 bytes, 0 underruns
0 output errors, 0 collisions, 10 interface resets
0 babbles, 0 late collision, 0 deferred
0 lost carrier, 0 no carrier
0 output buffer failures, 0 output buffers swapped out
S2#
S2#
S2#
S2#
S2#
Copy
Paste
Top

- Step 2


S2
Physical
Config
CLI
Attributes
IOS Command Line Interface
0 output buffer failures, 0 output buffers swapped out
S2#
S2#
S2#
S2#
S2#wr
Building configuration...
[OK]
S2#show mac-address table
^
% Invalid input detected at '^' marker.
S2#show mac address-table
Mac Address Table
Vlan Mac Address Type Ports
1 00d0.bca2.9001 DYNAMIC Fa0/1
S2#
S2#
S2#wr
Building configuration...
[OK]
S2#clear mac address-table dynamic
S2#show mac address-table
Mac Address Table
Vlan Mac Address Type Ports
S2#show mac address-table
Mac Address Table
Vlan Mac Address Type Ports
1 00d0.bca2.9001 DYNAMIC Fa0/1
S2#wr
Building configuration...
[OK]
S2#
Copy
Paste
Top


S2
Physical
Config
CLI
Attributes
IOS Command Line Interface
S2>en
Password:
S2#show ip interface brief
Interface IP-Address OK? Method Status Protocol
FastEthernet0/1 unassigned YES manual up up
FastEthernet0/2 unassigned YES manual down down
FastEthernet0/3 unassigned YES manual down down
FastEthernet0/4 unassigned YES manual down down
FastEthernet0/5 unassigned YES manual down down
FastEthernet0/6 unassigned YES manual down down
FastEthernet0/7 unassigned YES manual down down
FastEthernet0/8 unassigned YES manual down down
FastEthernet0/9 unassigned YES manual down down
FastEthernet0/10 unassigned YES manual down down
FastEthernet0/11 unassigned YES manual down down
FastEthernet0/12 unassigned YES manual down down
FastEthernet0/13 unassigned YES manual down down
FastEthernet0/14 unassigned YES manual down down
FastEthernet0/15 unassigned YES manual down down
FastEthernet0/16 unassigned YES manual down down
FastEthernet0/17 unassigned YES manual down down
FastEthernet0/18 unassigned YES manual up up
FastEthernet0/19 unassigned YES manual down down
FastEthernet0/20 unassigned YES manual down down
FastEthernet0/21 unassigned YES manual down down
FastEthernet0/22 unassigned YES manual down down
FastEthernet0/23 unassigned YES manual down down
FastEthernet0/24 unassigned YES manual down down
GigabitEthernet0/1 unassigned YES manual down down
GigabitEthernet0/2 unassigned YES manual down down
Vlan1 192.168.1.12 YES manual up up
S2#
S2#
S2#
S2#show mac address-table
Mac Address Table
Vlan Mac Address Type Ports
1 0030.a345.0da6 DYNAMIC Fa0/18
1 00d0.9704.35a7 DYNAMIC Fa0/1
1 00d0.bca2.9001 DYNAMIC Fa0/1
1 00e0.f9a9.bbdb DYNAMIC Fa0/1
S2#
Copy
Paste
Top


PC-B
Physical
Config
Desktop
Programming
Attributes
Command Prompt
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=4ms 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 = 4ms, Average = 1ms
C:\>ping 192.168.1.11
Pinging 192.168.1.11 with 32 bytes of data:
Reply from 192.168.1.11: bytes=32 time<1ms TTL=255
Reply from 192.168.1.11: bytes=32 time<1ms TTL=255
Reply from 192.168.1.11: bytes=32 time<1ms TTL=255
Reply from 192.168.1.11: bytes=32 time<1ms TTL=255
Ping statistics for 192.168.1.11:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 192.168.1.12
Pinging 192.168.1.12 with 32 bytes of data:
Reply from 192.168.1.12: bytes=32 time<1ms TTL=255
Reply from 192.168.1.12: bytes=32 time<1ms TTL=255
Reply from 192.168.1.12: bytes=32 time<1ms TTL=255
Reply from 192.168.1.12: bytes=32 time<1ms TTL=255
Ping statistics for 192.168.1.12:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>arp -a
Internet Address Physical Address Type
192.168.1.1 00e0.f9a9.bbdb dynamic
192.168.1.11 00d0.9704.35a7 dynamic
192.168.1.12 0002.16a6.640d dynamic
C:\>
Top