

BSC10924 – Networking Technologies Grp A&B – Practical CA1

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Obs. I have spoken to you during the exam, that I had chosen the name of the devices before you spoke to us what should be.

You said to leave a note here to remind you, that you let me to leave it like it is. Thanks

IMPORTANT: When saving this document please make sure that your Student ID is included in the filename.

Subnet 1

Record your calculations here:

	Octet 1 Binary	Octet 2 Binary	Octet 3 Binary	Octet 4 Binary	IP Address / Subnet Mask in Decimal
Network Address	1100 0000	1010 1000	0100 0011	0000 0000	192.168.67.0
Subnet Mask	1111 1111	1111 1111	1111 1111	0000 0000	255.255.255.0
First Usable Address	1100 0000	1010 1000	0100 0011	0000 0001	255.255.255.0
Last Usable Address	1100 0000	1010 1000	0100 0011	1111 1110	255.255.255.0
Broadcast Address	1100 0000	1010 1000	0100 0011	1111 1111	255.255.255.0

Subnet 2

Record your calculations here:

	Octet 1 Binary	Octet 2 Binary	Octet 3 Binary	Octet 4 Binary	IP Address / Subnet Mask in Decimal
Network Address	1100 0000	1010 1000	0100 1000	0000 0000	192.168.67.0
Subnet Mask	1111 1111	1111 1111	1111 1111	0000 0000	255.255.255.0
First Usable Address	1100 0000	1010 1000	0100 1000	0000 0001	255.255.255.0
Last Usable Address	1100 0000	1010 1000	0100 1000	1111 1110	255.255.255.0
Broadcast Address	1100 0000	1010 1000	0100 1000	1111 1111	255.255.255.0

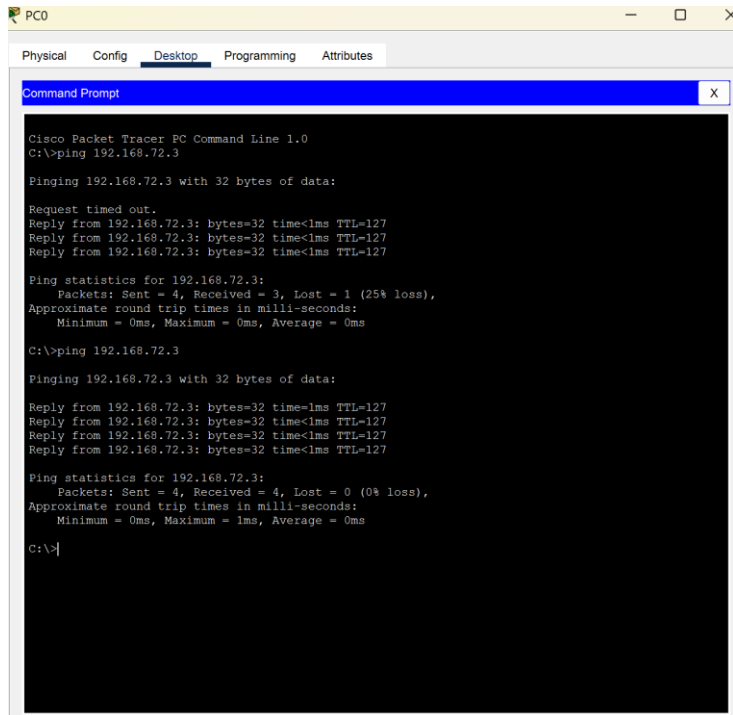
Addressing Table

Device	Interface Name	IP Address	Subnet Mask	Default Gateway
Router R1	G0/0	192.168.67.250	255.255.255.0	
	G0/1	192.168.72.250	255.255.255.0	
Switch S1 A	Interface VLAN1	192.168.67.249	255.255.255.0	192.168.67.250
Switch S1 B	Interface VLAN1	192.168.67.248	255.255.255.0	192.168.67.250
Switch S3	Interface VLAN1	192.168.72.249	255.255.255.0	192.168.72.250
PC0	Fa0	192.168.67.1	255.255.255.0	192.168.67.250
PC1	Fa0	192.168.67.2	255.255.255.0	192.168.67.250
PC2	Fa0	192.168.67.3	255.255.255.0	192.168.67.250
PC3	Fa0	192.168.67.4	255.255.255.0	192.168.67.250
PC4	Fa0	192.168.72.1	255.255.255.0	192.168.72.250
PC5	Fa0	192.168.72.2	255.255.255.0	192.168.72.250
PC6	Fa0	192.168.72.3	255.255.255.0	192.168.72.250
PC7	Fa0	192.168.72.4	255.255.255.0	192.168.72.250
Server0	Fa0	192.168.67.5	255.255.255.0	192.168.67.250
Server1	Fa0	192.168.72.5	255.255.255.0	192.168.72.250

Record all your screenshots here:

Make sure to provide a title/description for each screenshot indicating which part of the assessment your screenshot belongs to.

1- Testing connectivity from a pc at subnet 1 to a pc on subnet 2 (PC 0 -> PC 6)



```
PC0
Physical Config Desktop Programming Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.72.3

Pinging 192.168.72.3 with 32 bytes of data:

Request timed out.
Reply from 192.168.72.3: bytes=32 time<1ms TTL=127
Reply from 192.168.72.3: bytes=32 time<1ms TTL=127
Reply from 192.168.72.3: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.72.3:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.72.3

Pinging 192.168.72.3 with 32 bytes of data:

Reply from 192.168.72.3: bytes=32 time<1ms TTL=127
Reply from 192.168.72.3: bytes=32 time<1ms TTL=127
Reply from 192.168.72.3: bytes=32 time<1ms TTL=127
Reply from 192.168.72.3: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.72.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

2- Testing connectivity from a pc at subnet 2 to a pc on subnet 1 (PC 5 -> PC 1)

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.67.2

Pinging 192.168.67.2 with 32 bytes of data:

Request timed out.
Reply from 192.168.67.2: bytes=32 time<1ms TTL=127
Reply from 192.168.67.2: bytes=32 time<1ms TTL=127
Reply from 192.168.67.2: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.67.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.67.2#
Ping request could not find host 192.168.67.2#. Please check the name and try again.
C:\>ping 192.168.67.2

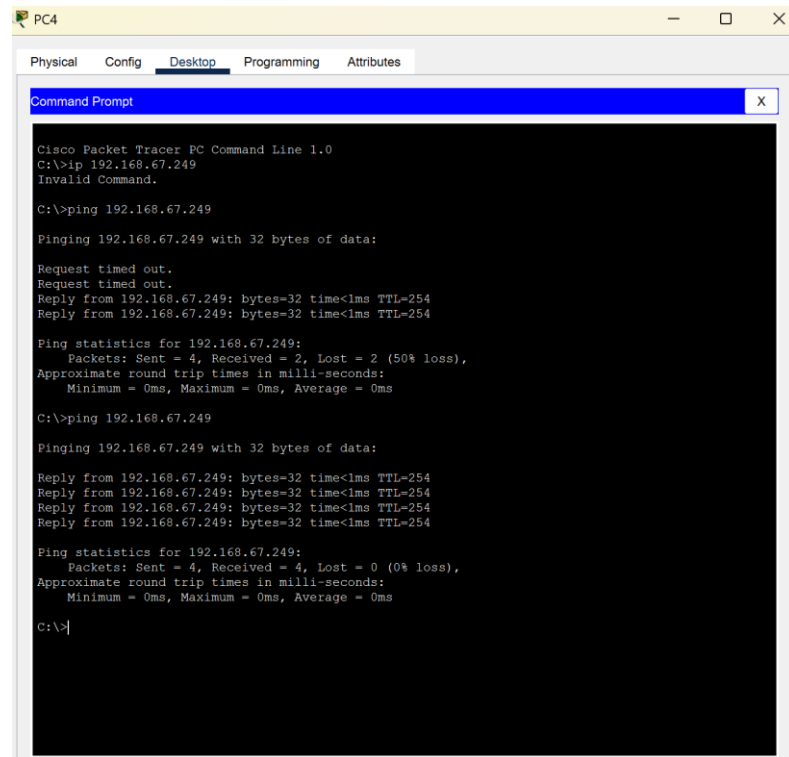
Pinging 192.168.67.2 with 32 bytes of data:

Reply from 192.168.67.2: bytes=32 time<1ms TTL=127
Reply from 192.168.67.2: bytes=32 time<1ms TTL=127
Reply from 192.168.67.2: bytes=32 time=1ms TTL=127
Reply from 192.168.67.2: bytes=32 time=1ms TTL=127

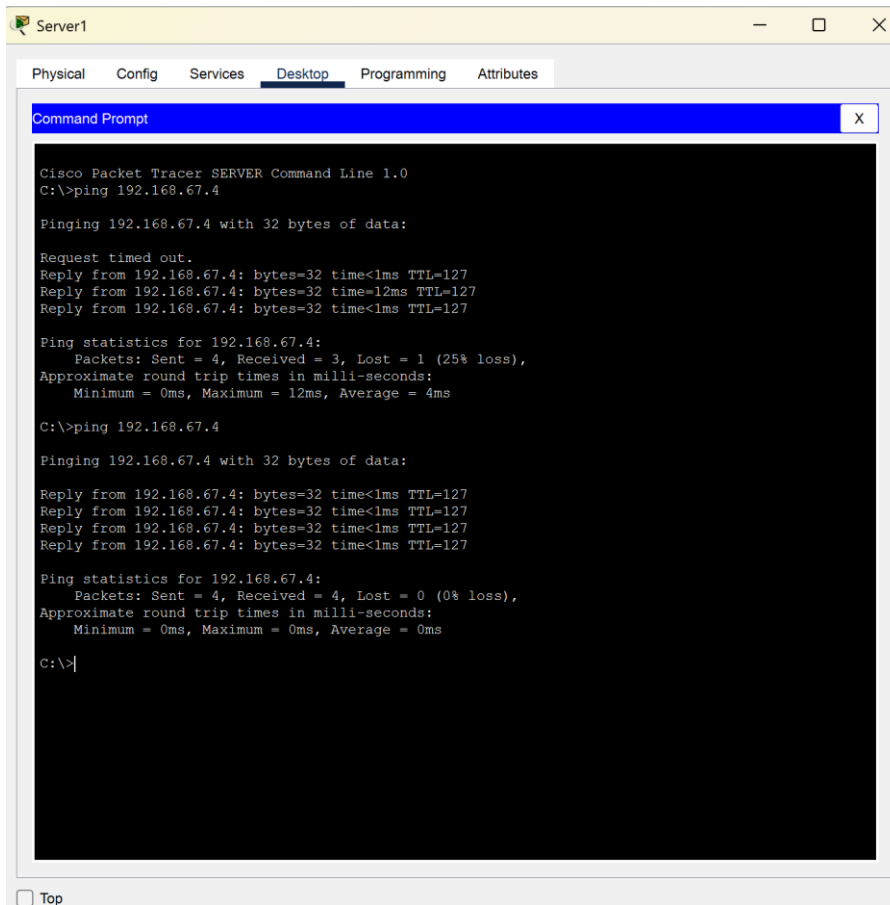
Ping statistics for 192.168.67.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>|
```

3- Testing connectivity from a pc at subnet 2 to a switch on subnet 1 (PC 4 -> SWITCH 1A)



4- Testing connectivity from a Server at subnet 2 to a PC on subnet 1 (SERVER 1 -> PC 3)



The screenshot shows a window titled "Server1" with tabs for Physical, Config, Services, Desktop, Programming, and Attributes. The "Desktop" tab is active, displaying a "Command Prompt" window. The Command Prompt shows the output of a ping command from the Cisco Packet Tracer SERVER Command Line 1.0 to the IP address 192.168.67.4. The first ping attempt shows a "Request timed out." followed by three successful replies. The second ping attempt shows four successful replies. The ping statistics for 192.168.67.4 are displayed at the end of each attempt.

```
Cisco Packet Tracer SERVER Command Line 1.0
C:\>ping 192.168.67.4

Pinging 192.168.67.4 with 32 bytes of data:

Request timed out.
Reply from 192.168.67.4: bytes=32 time<1ms TTL=127
Reply from 192.168.67.4: bytes=32 time=12ms TTL=127
Reply from 192.168.67.4: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.67.4:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 12ms, Average = 4ms

C:\>ping 192.168.67.4

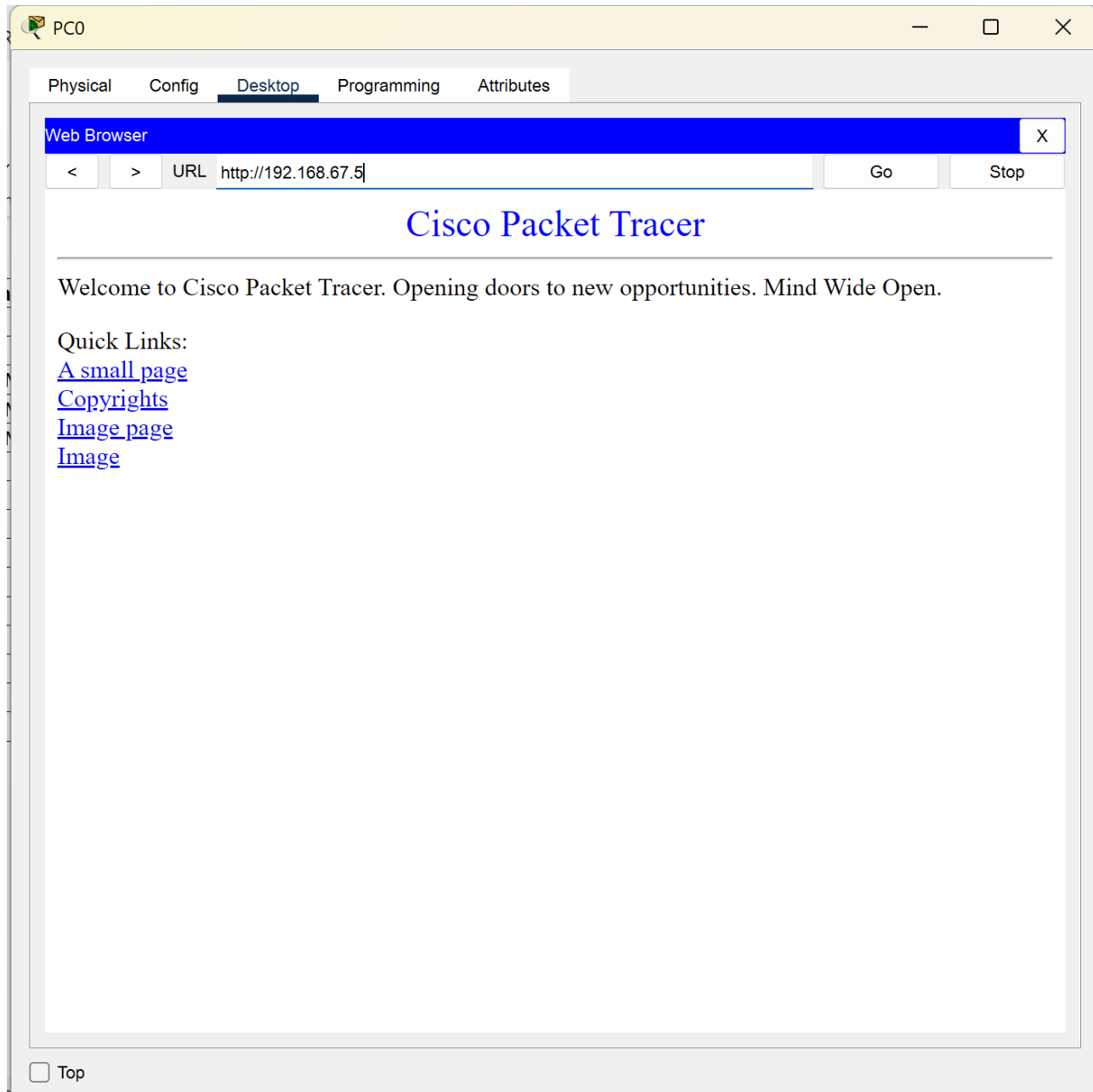
Pinging 192.168.67.4 with 32 bytes of data:

Reply from 192.168.67.4: bytes=32 time<1ms TTL=127
Reply from 192.168.67.4: bytes=32 time<1ms TTL=127
Reply from 192.168.67.4: bytes=32 time<1ms TTL=127
Reply from 192.168.67.4: bytes=32 time<1ms TTL=127

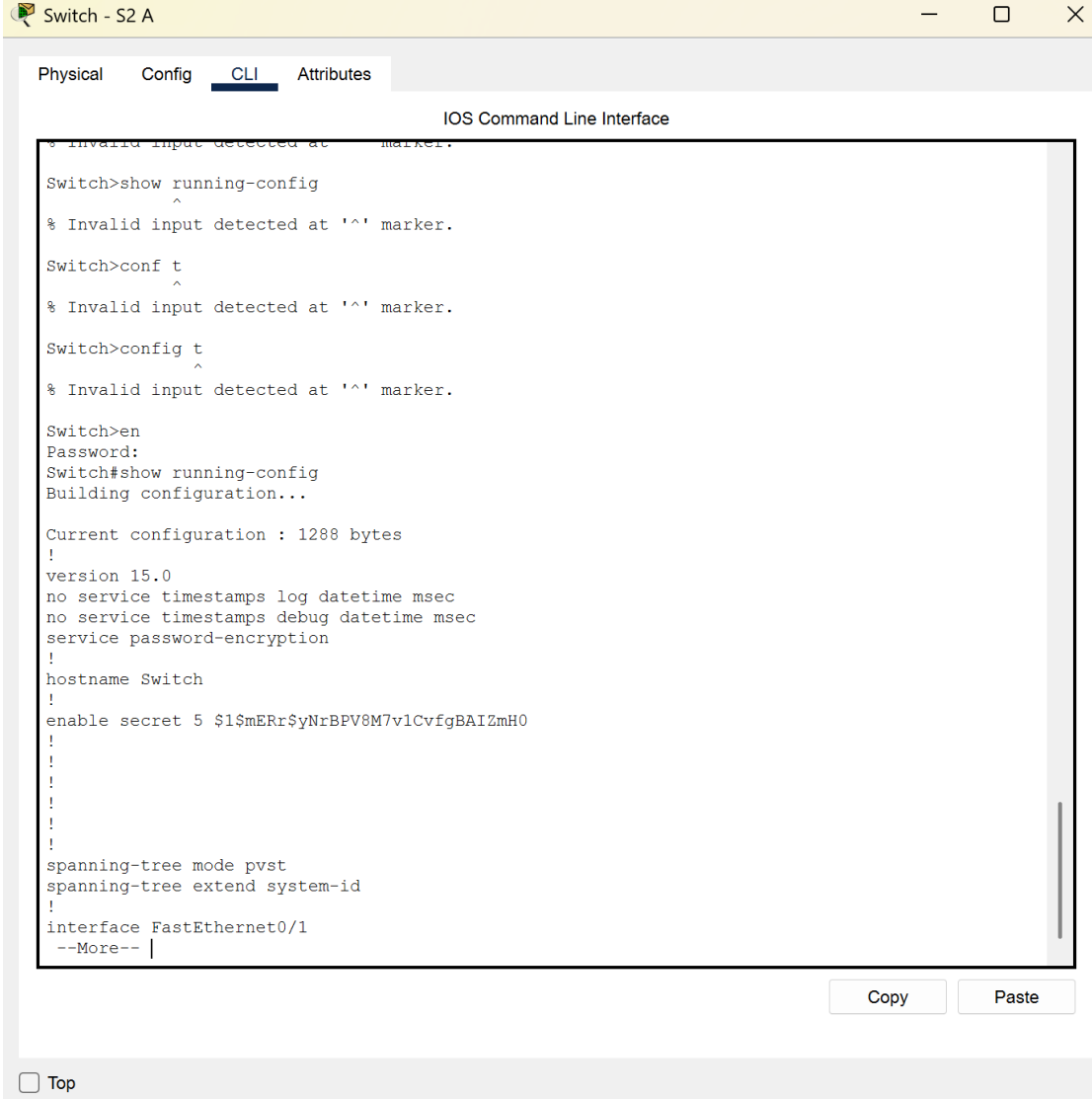
Ping statistics for 192.168.67.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>|
```

5- Accessing webserver of the server on subnet 2 from a computer on a subnet 1 (PC 0 -> SERVER 1)



6- Accessing running configuration from switcher 2



The screenshot shows a web-based interface for a network switch, titled "Switch - S2 A". It has tabs for "Physical", "Config", "CLI", and "Attributes", with "CLI" selected. The main area is titled "IOS Command Line Interface" and contains a text box with the following text:

```
% Invalid input detected at '^' marker.  
Switch>show running-config  
^  
% Invalid input detected at '^' marker.  
Switch>conf t  
^  
% Invalid input detected at '^' marker.  
Switch>config t  
^  
% Invalid input detected at '^' marker.  
Switch>en  
Password:  
Switch#show running-config  
Building configuration..  
  
Current configuration : 1288 bytes  
!  
version 15.0  
no service timestamps log datetime msec  
no service timestamps debug datetime msec  
service password-encryption  
!  
hostname Switch  
!  
enable secret 5 $l$mERr$yNrBPV8M7v1CvfgBAIZmH0  
!  
!  
!  
!  
!  
spanning-tree mode pvst  
spanning-tree extend system-id  
!  
interface FastEthernet0/1  
--More-- |
```

Below the text box are "Copy" and "Paste" buttons. At the bottom left of the interface is a "Top" button.

7- Ip addressing information from a pc

