

➤ **Vendor: CompTIA**

➤ **Exam Code: N10-007**

➤ **Exam Name: CompTIA Network+ N10-007 Certification Exam**

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QUESTION 966

A technician is required to install a new DOCSIS-based Internet connection. Which of the following medium types does this use?

- A. Cat6a
- B. RG-6
- C. UTP
- D. Multimode
- E. Single mode

Answer: B

QUESTION 967

SIMULATION

You have been tasked with setting up a wireless network in an office. The network will consist of 3 Access Points and a single switch. The network must meet the following parameters:

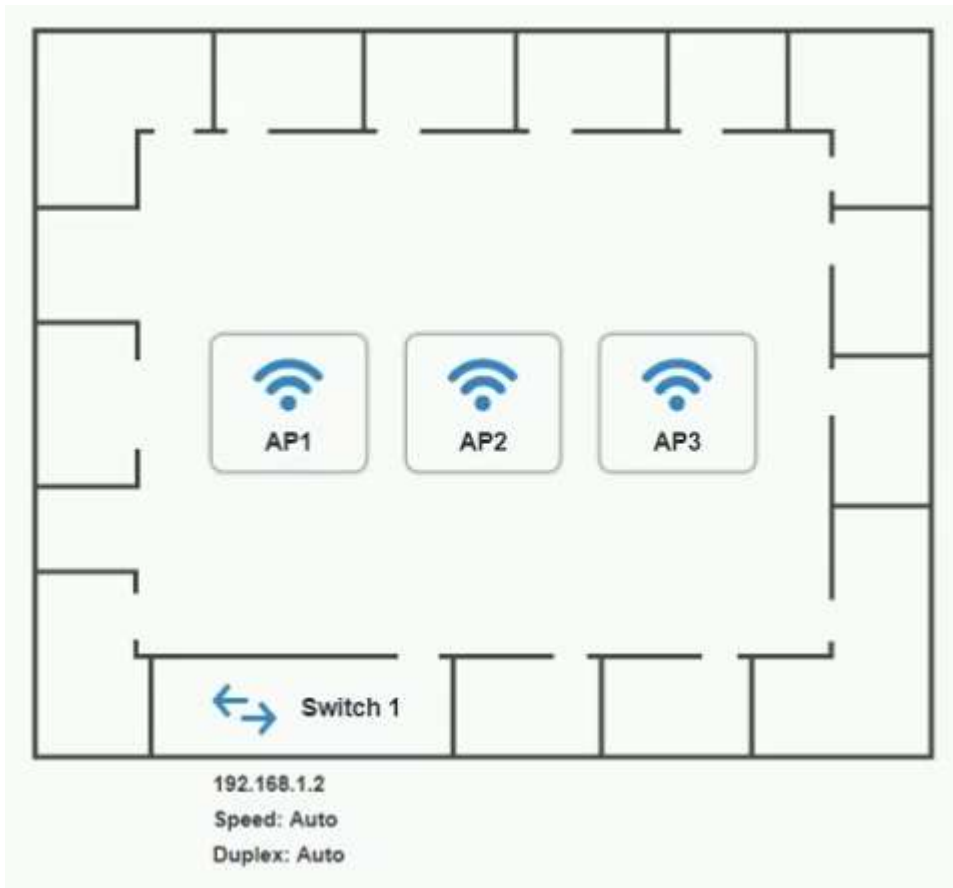
- The SSIDs need to be configured as **CorpNet** with a key of **S3cr3t!**
- The wireless signals should not interfere with each other.
- The subnet the Access Points and switch are on should only support 30 devices maximum.
- The Access Points should be configured to only support TKIP clients at a maximum speed.

INSTRUCTIONS

Click on the devices to review their information and adjust the settings of the APs to meet the given requirements. If any time you would like to bring back the initial state of the simulation, please click the Reset All button.

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AP1 Configuration

← → ↺

Basic Configuration

Access Point Name	<input type="text" value="AP1"/>
IP Address	<input type="text"/> / <input type="text"/>
Gateway	<input type="text" value="192.168.1.1"/>
SSID	<input type="text"/>
SSID Broadcast	<input checked="" type="radio"/> Yes <input type="radio"/> No

Wireless

Mode	<input type="text"/>
Channel	<input type="text"/>

Wired

Speed	<input checked="" type="radio"/> 100 <input type="radio"/> 1000 <input type="radio"/> Auto
Duplex	<input type="radio"/> Auto <input type="radio"/> Half <input checked="" type="radio"/> Full

AP1 Configuration

← → ↺

Basic Configuration

Access Point Name

IP Address /

Gateway

SSID

SSID Broadcast ☒ Yes ☐ No

Wireless

Mode

Channel

Wired

Speed ☒ 100 ☐ 1000 ☐ Auto

Duplex ☐ Auto ☐ Half ☒ Full

AP1 Configuration

← → ↺

Basic Configuration

Access Point Name	1	AP1
IP Address	2	192.168.1.32 / 27
Gateway	3	192.168.1.1
SSID	4	CorpNet
SSID Broadcast	5	<input checked="" type="radio"/> Yes <input type="radio"/> No
	6	
	7	
	8	
	9	

Wireless

Mode	10	
Channel	11	

Wired

Speed	<input checked="" type="radio"/> 100 <input type="radio"/> 1000 <input type="radio"/> Auto
Duplex	<input type="radio"/> Auto <input type="radio"/> Half <input checked="" type="radio"/> Full

AP2 Configuration

← → ↺

Basic Configuration

Access Point Name	<input type="text" value="AP2"/>	
IP Address	<input type="text" value="192.168.1.64"/>	<input type="text" value="27"/>
Gateway	<input type="text" value="192.168.1.1"/>	
SSID	<input type="text" value="CorpNet"/>	
SSID Broadcast	<input type="radio"/> Yes <input checked="" type="radio"/> No	

Wireless

Mode	<input type="text" value="B"/>
Channel	<input type="text" value="G"/>

Wired

Speed	<input checked="" type="radio"/> 100 <input type="radio"/> 1000 <input type="radio"/> Auto
Duplex	<input type="radio"/> Auto <input type="radio"/> Half <input checked="" type="radio"/> Full

AP2 Configuration

← → ↺

Basic Configuration

Access Point Name	1	AP2
IP Address	2	192.168.1.64 / 27
Gateway	3	192.168.1.1
SSID	4	CorpNet
SSID Broadcast	5	<input type="radio"/> Yes <input checked="" type="radio"/> No
	6	
	7	
	8	
	9	
	10	
	11	

Wireless

Mode

Channel

Wired

Speed ☒ 100 ☐ 1000 ☐ Auto

Duplex ☐ Auto ☐ Half ☒ Full

AP3 Configuration

← → ↻

Basic Configuration

Access Point Name

IP Address /

Gateway

SSID

SSID Broadcast ☒ Yes ☐ No

Wireless

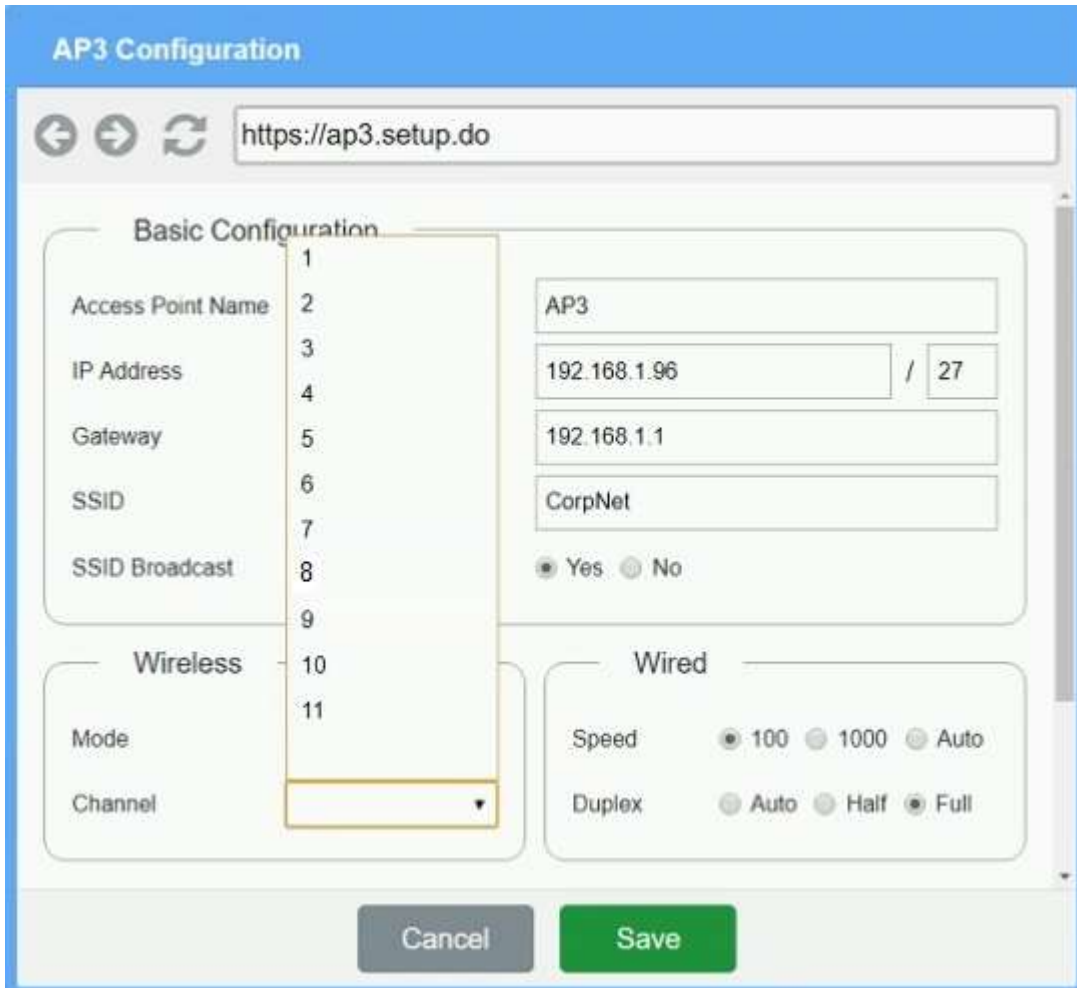
Mode

Channel

Wired

Speed ☒ 100 ☐ 1000 ☐ Auto

Duplex ☐ Auto ☐ Half ☒ Full



AP3 Configuration

https://ap3.setup.do

Basic Configuration

Access Point Name: AP3

IP Address: 192.168.1.96 / 27

Gateway: 192.168.1.1

SSID: CorpNet

SSID Broadcast: ☒ Yes ☐ No

Wireless

Mode: G

Channel: 1

Wired

Speed: ☒ 100 ☐ 1000 ☐ Auto

Duplex: ☐ Auto ☐ Half ☒ Full

Cancel Save

Answer:

On the first exhibit, the layout should be as follows

Access Point Name AP1

IP Address 192.168.1.3

Gateway 192.168.1.2

SSID corpnet

SSID Broadcast yes

Mode G

Channel 1

Speed Auto

Duplex Auto

WPA

Passphrase S3cr3t!

Exhibit 2 as follows

Access Point Name AP2

IP Address 192.168.1.4

Gateway 192.168.1.2

SSID corpnet

SSID Broadcast yes

Mode G

Channel 6

Speed Auto

Duplex Auto

WPA

Passphrase S3cr3t!

Exhibit 3 as follows

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Access Point Name AP3
IP Address 192.168.1.5
Gateway 192.168.1.2
SSID corpnet
SSID Broadcast yes
Mode G
Channel 11
Speed Auto
Duplex Auto
WPA
Passphrase S3cr3t!

QUESTION 968**SIMULATION**

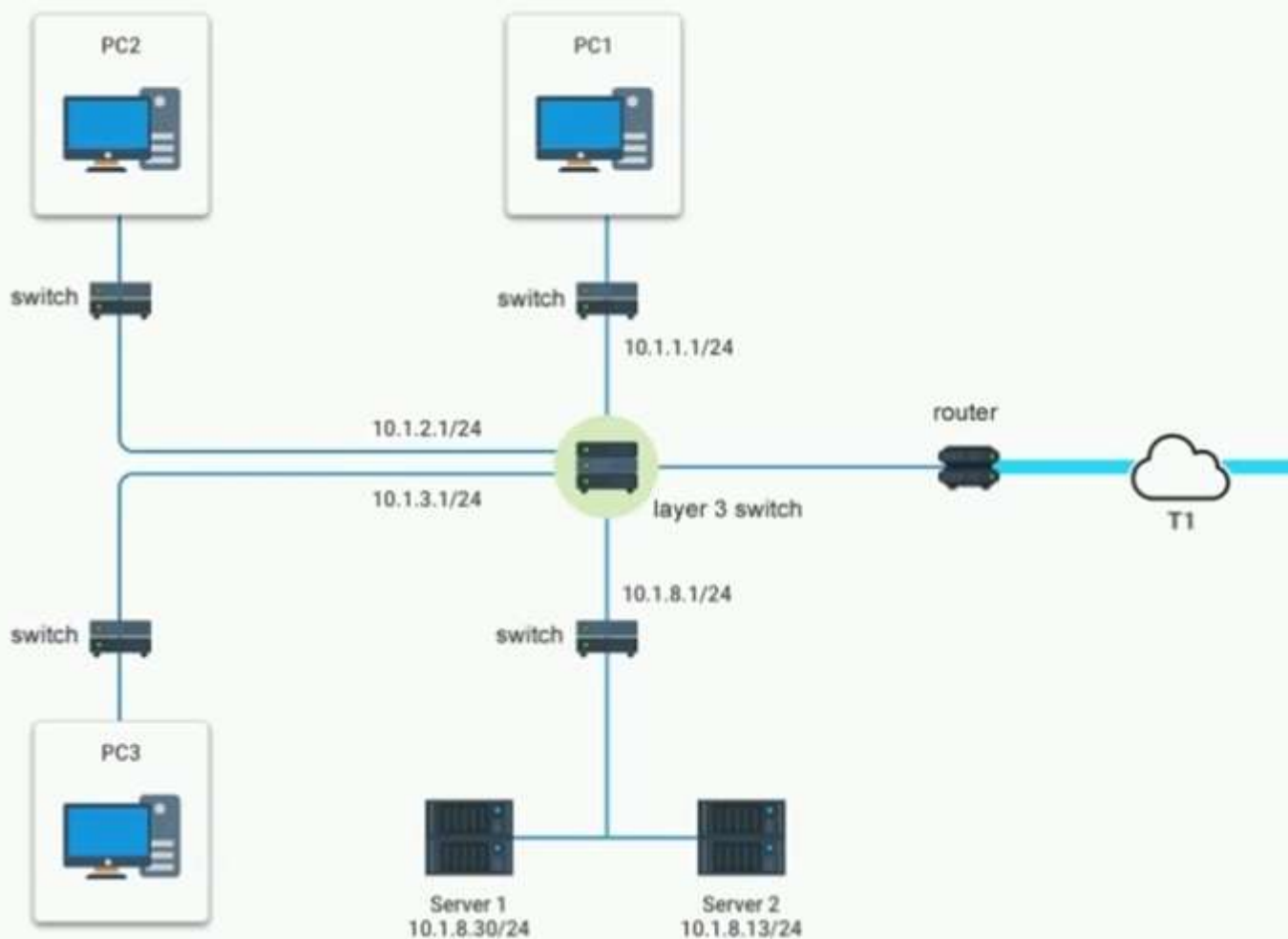
After recent changes to the pictured network, several users are unable to access the servers. Only PC1, PC2, PC3, and PC4 are clickable and will give you access to the command prompt and the adapter configuration tabs.

INSTRUCTIONS

Verify the settings by using the command prompt, after making any system changes.

Next, restore connectivity by making the appropriate changes to the infrastructure.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

Network Diagram

PC1

Adapter Configuration **Command Prompt**

You can get IP settings automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate settings.

☐ Obtain an IP address automatically

☒ Use the following IP address

IP address	10	.	1	.	1	.	129
Subnet mask	255	.	255	.	255	.	0
Default gateway	10	.	1	.	1	.	1

☐ Obtain DNS server address automatically

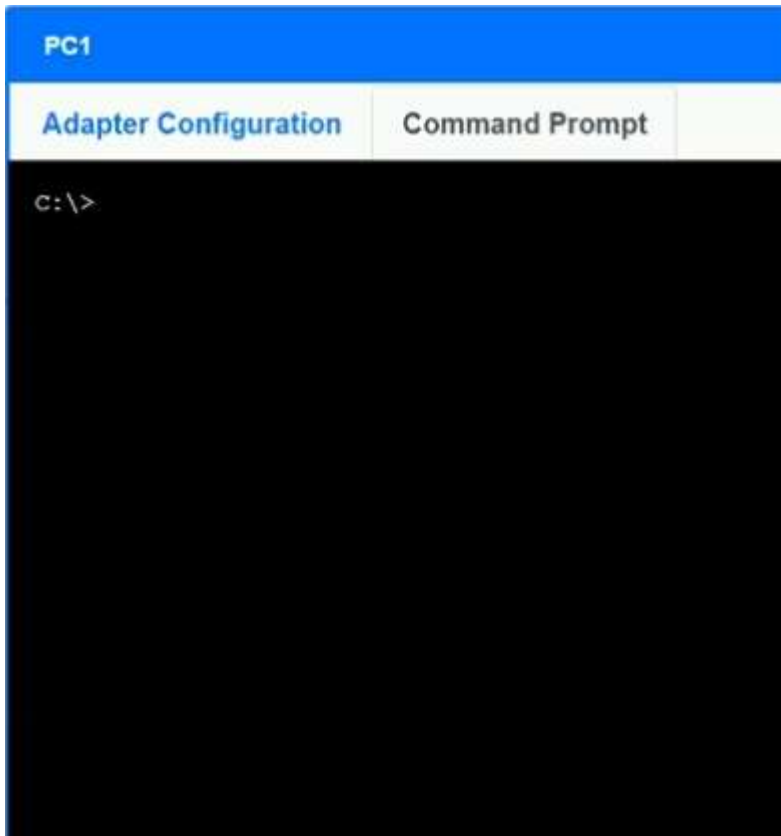
☒ Use the following DNS server addresses

Preferred DNS server	10	.	1	.	8	.	13
Alternate DNS server		.		.		.	

☐ Validate settings upon exit

Advanced...

APPLY **CANCEL**



PC2

Adapter Configuration **Command Prompt**

You can get IP settings automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate settings.

☐ Obtain an IP address automatically

☒ Use the following IP address

IP address	10	.	1	.	2	.	129
Subnet mask	255	.	255	.	255	.	0
Default gateway	10	.	1	.	2	.	1

☐ Obtain DNS server address automatically

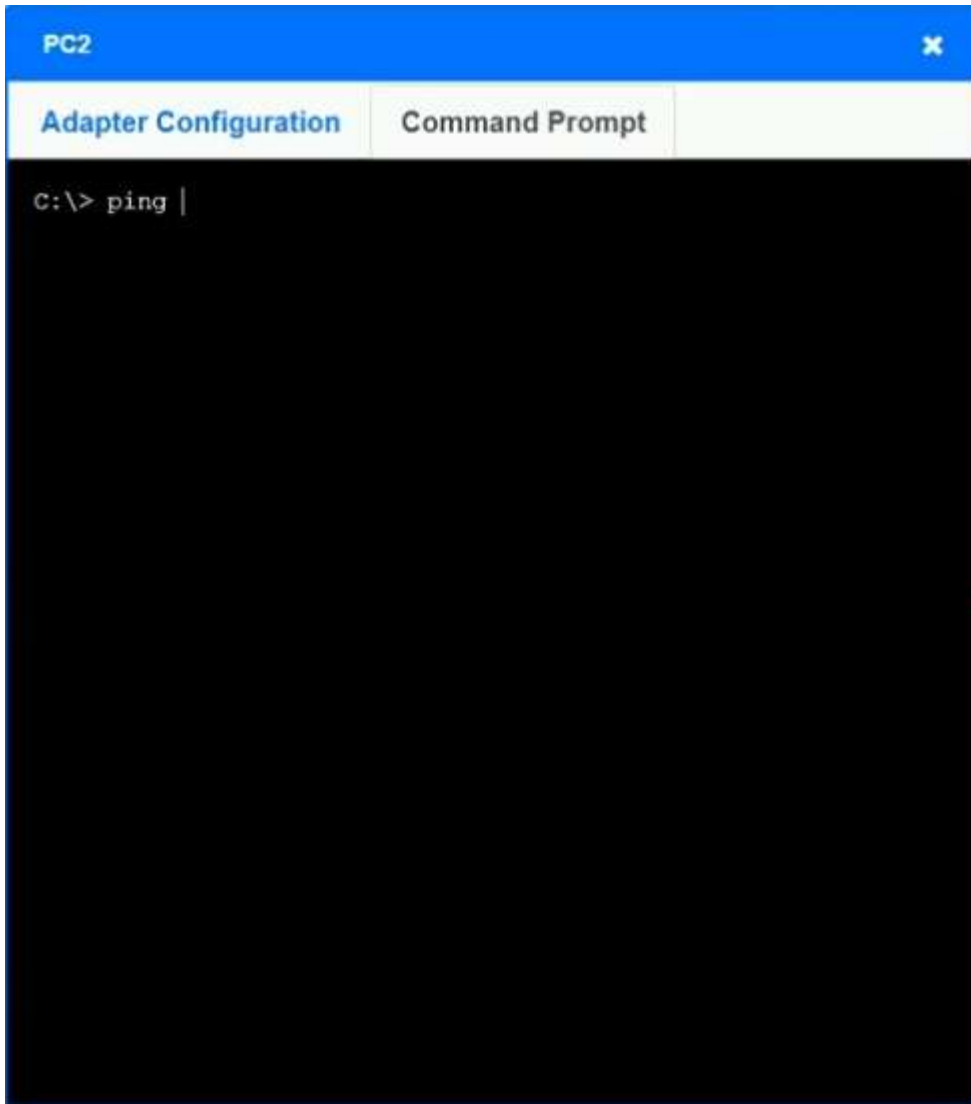
☒ Use the following DNS server addresses

Preferred DNS server	10	.	1	.	8	.	13
Alternate DNS server		.		.		.	

☐ Validate settings upon exit

Advanced...

APPLY **CANCEL**



PC3

Adapter Configuration **Command Prompt**

You can get IP settings automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate settings.

☐ Obtain an IP address automatically

☒ Use the following IP address

IP address	10	.	1	.	3	.	129
Subnet mask	255	.	255	.	255	.	128
Default gateway	10	.	1	.	3	.	1

☐ Obtain DNS server address automatically

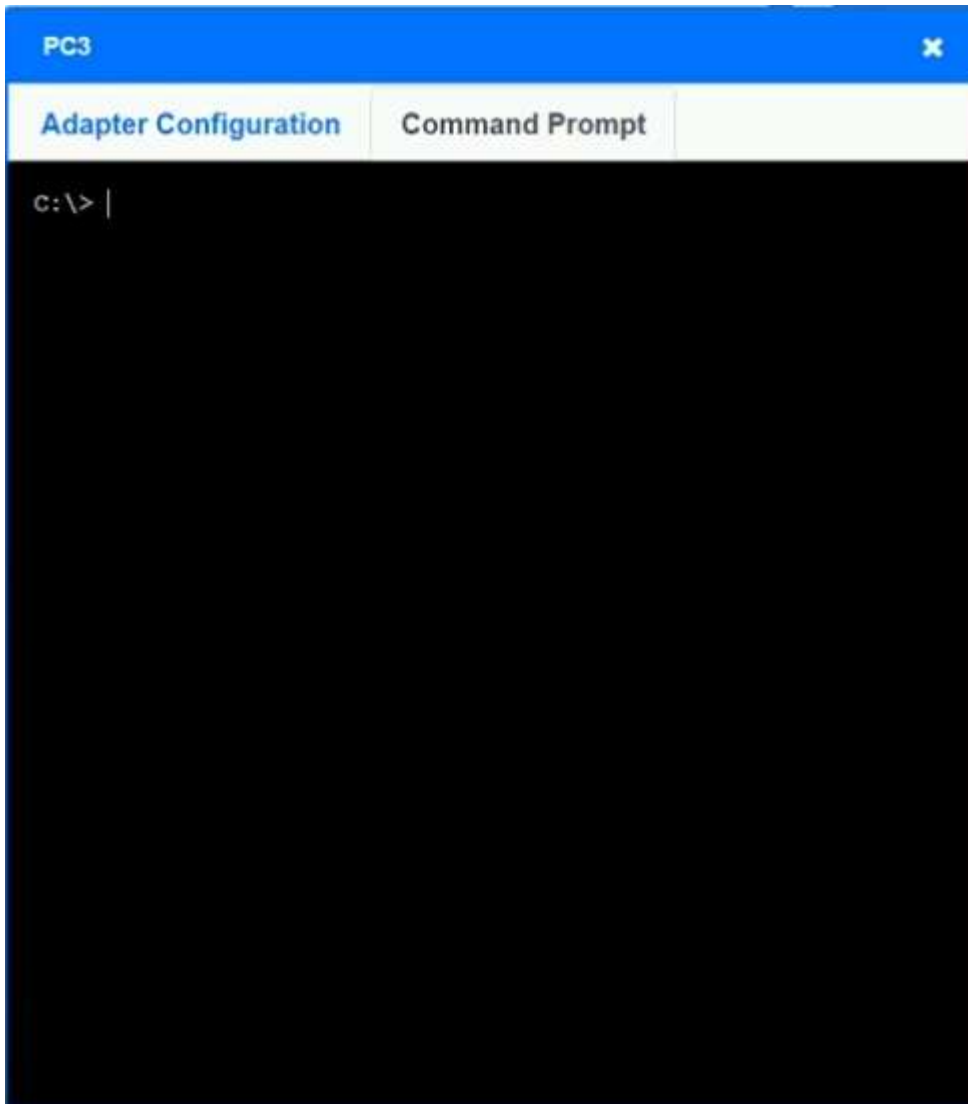
☒ Use the following DNS server addresses

Preferred DNS server	10	.	1	.	8	.	13
Alternate DNS server		.		.		.	

☐ Validate settings upon exit

Advanced...

APPLY **CANCEL**



PC4

Adapter Configuration **Command Prompt**

You can get IP settings automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate settings.

☐ Obtain an IP address automatically

☒ Use the following IP address

IP address	10	.	0	.	2	.	129
Subnet mask	255	.	255	.	255	.	0
Default gateway	10	.	1	.	2	.	1

☐ Obtain DNS server address automatically

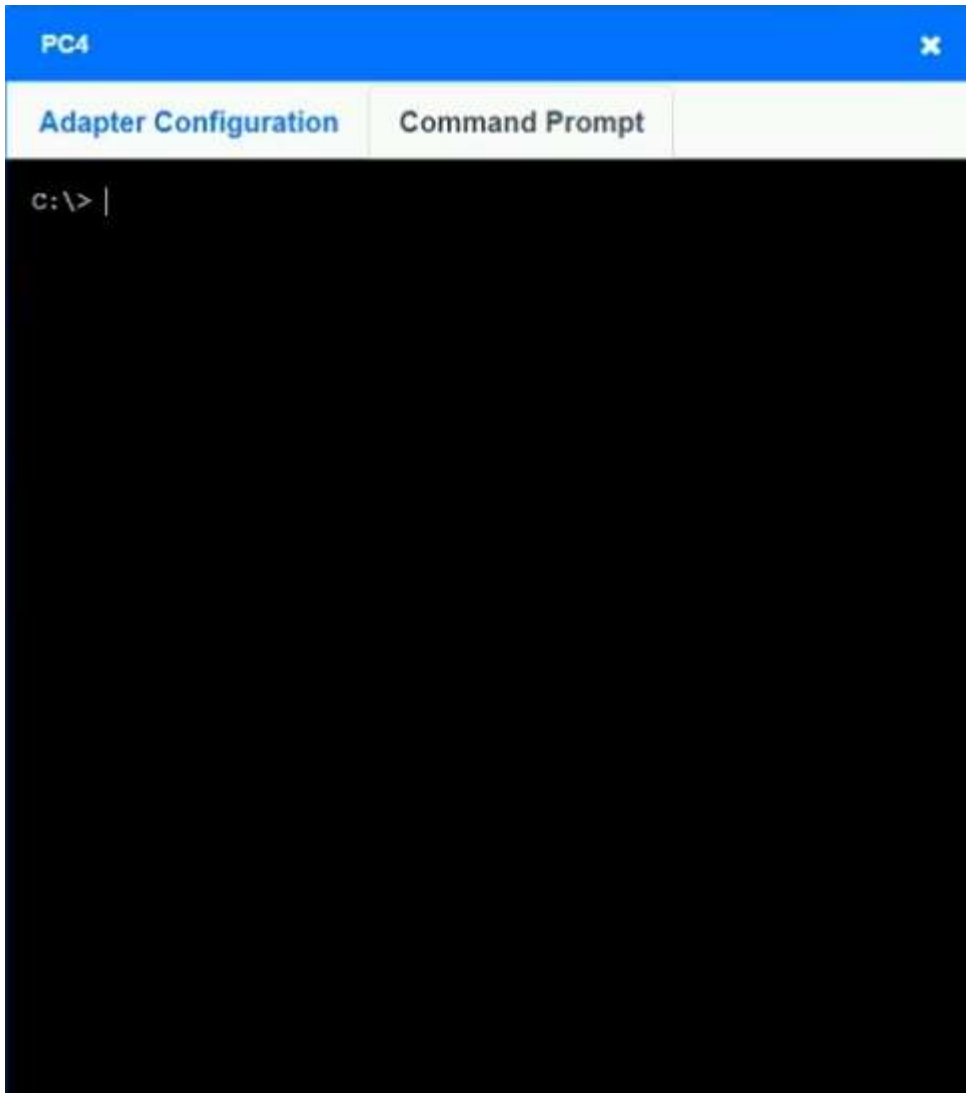
☒ Use the following DNS server addresses

Preferred DNS server	10	.	1	.	8	.	13
Alternate DNS server		.		.		.	

☐ Validate settings upon exit

Advanced...

APPLY **CANCEL**

**Answer:**

On PC3, change the subnet mask to 255.255.255.0. When it is set to 255.255.255.128, then the PC with a .129 address will not be on the same subnet as the default gateway which is .1 On PC4, change the default gateway to 10.0.2.1. It has been incorrectly set as 10.1.2.1.

QUESTION 969**Hotspot Question**

Corporate headquarters provided your office a portion of their class B subnet to use at a new office location.

Range Given: 172.30.232.0/24

- Sales 57 devices
- HR 23 devices
- IT 12 devices
- Finance 32 devices
- Marketing 9 devices

INSTRUCTIONS

Allocate the minimum number of addresses (using CIDR notation) needed to accommodate each department.

After accommodating each department, identify the unused portion of the subnet by responding to the question on the graphic.

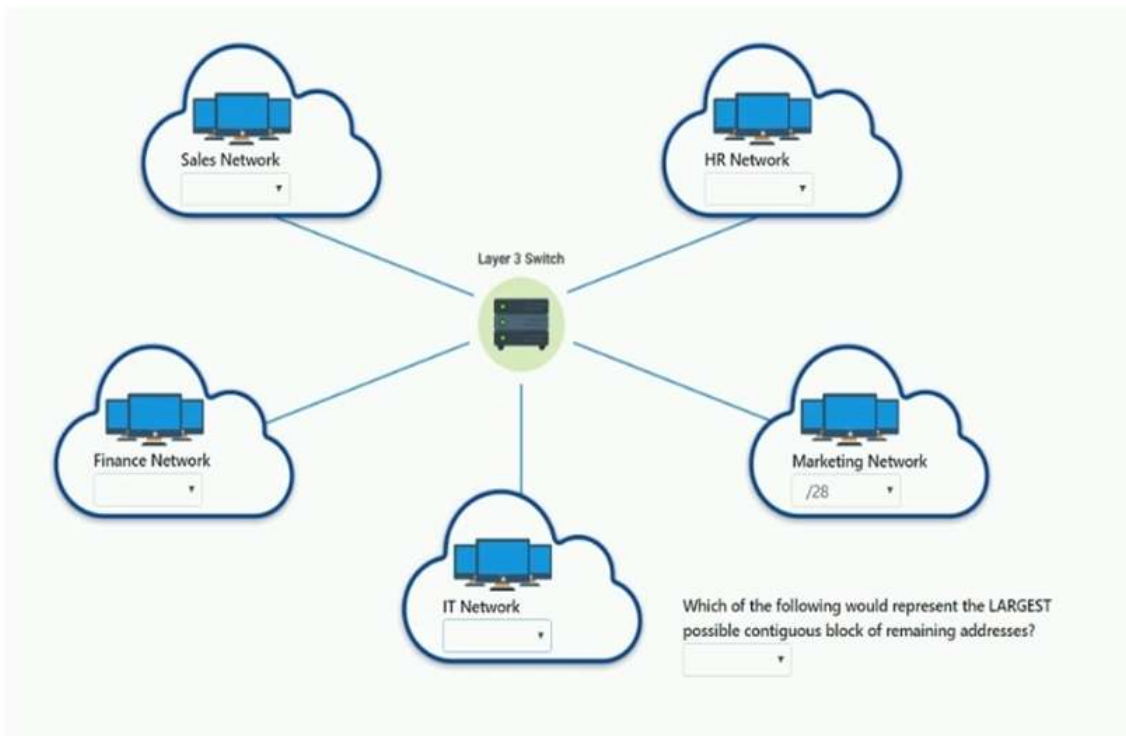
All drop downs must be filled.

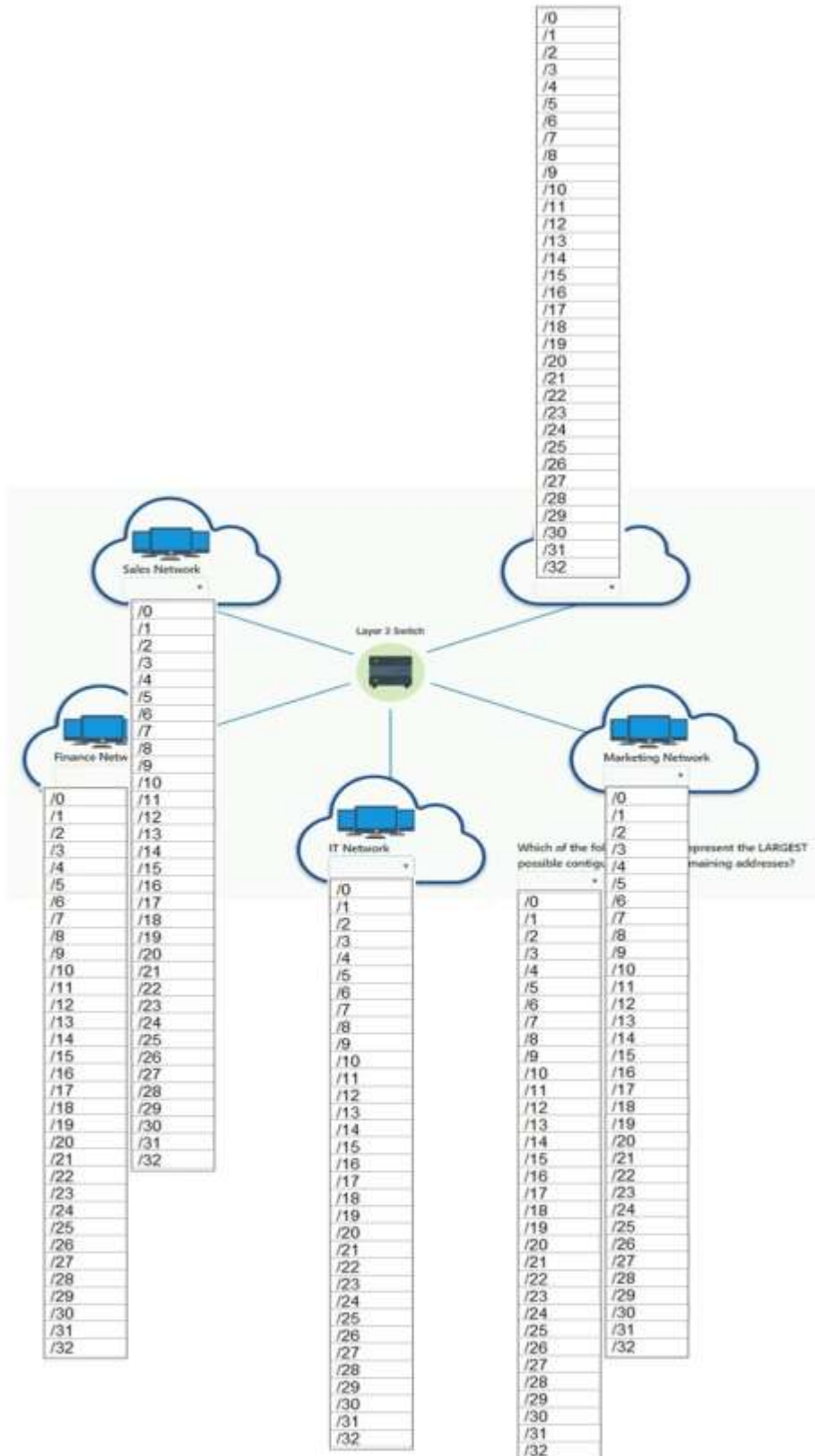
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Network Subnet Diagram





Answer:

