



98-366^{Q&As}

Networking Fundamentals

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QUESTION 1

Internet Key Exchange (IKE) is responsible for which two functions? (Choose two.)

- A. Establishing network speed parameters
- B. Verifying the client's patch level
- C. Negotiating algorithms to use
- D. Exchanging key information

Correct Answer: CD

Internet Key Exchange (IKE) negotiates the IPSec security associations (SAs). This process requires that the IPSec systems first authenticate themselves to each other and establish ISAKMP (IKE) shared keys.

In phase 1 of this process, IKE creates an authenticated, secure channel between the two IKE peers, called the IKE security association. The Diffie-Hellman key agreement is always performed in this phase.

In phase 2, IKE negotiates the IPSec security associations and generates the required key material for IPSec. The sender offers one or more transform sets that are used to specify an allowed combination of transforms with their respective

settings. The sender also indicates the data flow to which the transform set is to be applied. The sender must offer at least one transform set. The receiver then sends back a single transform set, which indicates the mutually agreed-upon

transforms and algorithms for this particular IPSec session.

Reference: IPSec Overview Part Four: Internet Key Exchange (IKE)

QUESTION 2

A Layer 2 device that connects multiple computers within a network is a:

- A. Repeater
- B. Switch
- C. Router
- D. Packet

Correct Answer: B

Layer 2 switching uses the media access control address (MAC address) from the host's network interface cards (NICs) to decide where to forward frames.

QUESTION 3

You work at a coffee shop. Your supervisor asks you to help set up a computer network.



The network needs to have the following items: A public facing web server A Wi-Fi network for customers A private network for the point of sale terminals An office PC A file/print server A network printer

You need to set up a perimeter network to protect the network.

Which two items should you include in the perimeter network? (Choose two.)

- A. Network printer
- B. Web server
- C. File server
- D. Wi-Fi network
- E. Point of sale terminals

Correct Answer: AB

Put the web server and the network printer on the perimeter network.

The file server, wifi-network, and the Point of sale terminals should not be accessible from the internet.

Note: A network perimeter is the boundary between the private and locally managed-and-owned side of a network and the public and usually provider-managed side of a network.

QUESTION 4

Match the networking topologies to their corresponding characteristics.

To answer, drag the appropriate topology from the column on the left to its characteristic on the right. Each topology may be used once, more than once, or not at all. Each correct match is worth one point.

Select and Place:



Topologies

- Star
- Mesh
- Ring

Answer Area

Each computer is connected by a single cable.

Each workstation acts as a repeater.

Each computer is connected to every other computer.

There is a central connectivity device.

The number of connections equals the total number of computers minus one.

Each node is connected to exactly two other nodes.

- Topology
- Topology
- Topology
- Topology
- Topology
- Topology

Correct Answer:



Topologies

- Star
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- Mesh
- Ring

QUESTION 5

You receive a call from a family member who is unable to connect to a game server.

You learn that the server's IP is 172.16.2.11.

To help, you ping the server and receive the information shown in the following image:

Use the drop-down menus to select the answer choice that completes each statement. Each correct selection is worth one point.

Use the drop-down menus to select the answer choice that completes each statement. Each correct selection is worth one point.



```
Command Prompt
C:\>ping 172.16.2.11
Pinging 172.16.2.11 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.16.2.11:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>
```

Hot Area:

Answer Area

The server **[answer choice]** your ping requests.

did not return
did return
may or may not have returned

The server status is **[answer choice]**

up.
down.
unknown.

Correct Answer:

Answer Area

The server **[answer choice]** your ping requests.

did not return
did return
may or may not have returned

The server status is **[answer choice]**

up.
down.
unknown.