

100-105^{Q&As}

Interconnecting Cisco Networking Devices Part 1 (ICND1)

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QUESTION 1

Which two characteristics apply to Layer 2 switches? (Choose two.)

- A. increases the number of collision domains
- B. decreases the number of collision domains
- C. implements VLAN
- D. decreases the number of broadcast domains
- E. uses the IP address to make decisions for forwarding data packets

Correct Answer: AC

Layer 2 switches offer a number of benefits to hubs, such as the use of VLANs and each switch port is in its own separate collision domain, thus eliminating collisions on the segment.

QUESTION 2

Which statement about NTP is true?

- A. The default authentication key number is 1.
- B. The default source address of an NTP message is the interface connected to the next-hop for the server peer address.
- C. The default stratum number is 5.
- D. Each device is enabled as a server by default and propagates NTP messages to all peers on its default LAN.

Correct Answer: B

QUESTION 3

OSPF routing uses the concept of areas. What are the characteristics of OSPF areas? (Choose Three.)

- A. Each OSPF area requires a loopback interface to be configured.
- B. Areas may be assigned any number from 0 to 65535.
- C. Area 0 is called the backbone area.
- D. Hierarchical OSPF networks do not require multiple areas.
- E. Multiple OSPF areas must connect to area 0.
- F. Single area OSPF networks must be configured in area 1.

Correct Answer: BCE

Definition of OSPF areas: An OSPF network may be structured, or subdivided, into routing areas to simplify administration and optimize traffic and resource utilization. Areas are identified by 32-bit numbers, expressed either simply in

decimal, or often in octet-based dot-decimal notation, familiar from IPv4 address notation.

See discussion following Cisco Learning discussion.

<https://learningnetwork.cisco.com/message/90832>

QUESTION 4

Which type of route is the most trusted?

A. BGP

B. OSPF

C. static

D. connected

Correct Answer: D

QUESTION 5

Instructions

You can click on the grey buttons below to view the different windows.

Each of the windows can be minimized by clicking on the [-]. You can also reposition a window by dragging it by the title bar.

The "Tab" key and most commands that use the "Control" or "Escape" keys are not supported and are not necessary to complete this simulation.

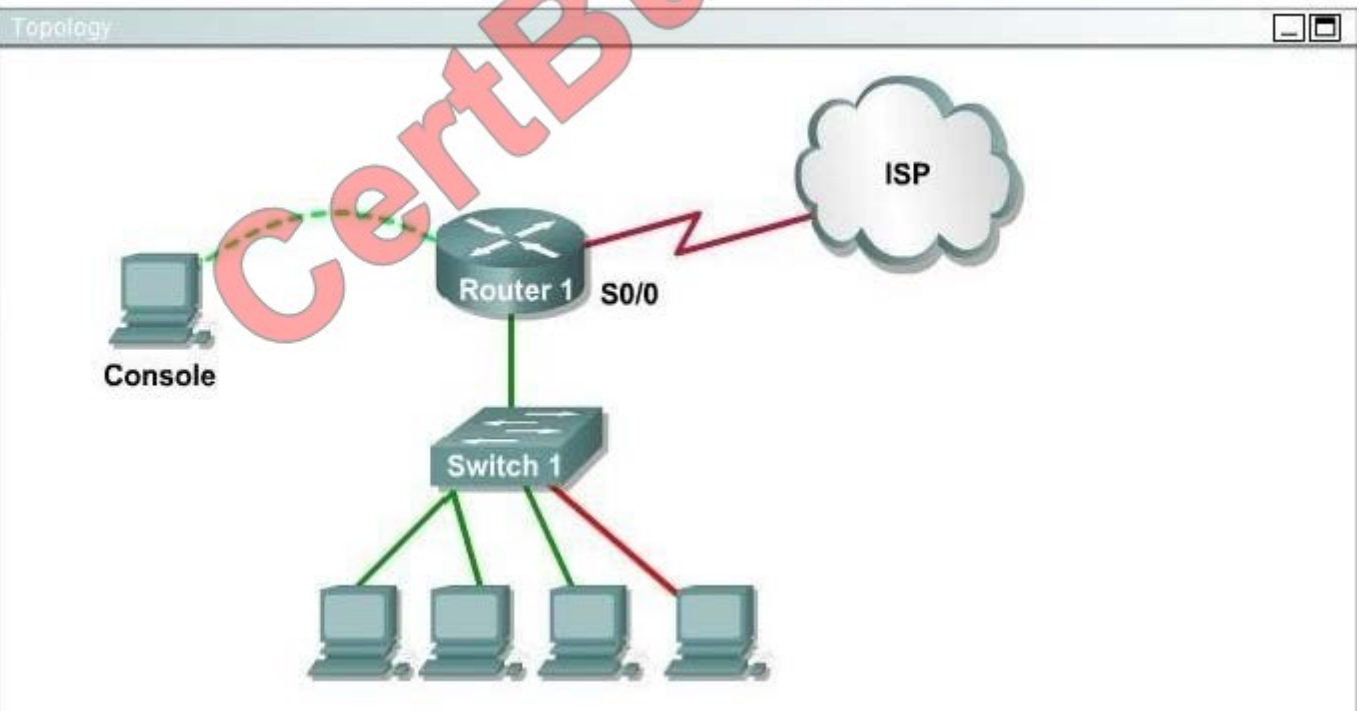
Scenario

This task requires the use of various **show** commands from the CLI of Router1 to answer four multiple-choice questions. This task does **not** require any configuration.

NOTE: The show running-configuration and the show startup-configuration commands have been disabled in this simulation.

To access the multiple-choice questions, click on the numbered boxes on the right of the top panel.

There are 4 multiple-choice questions with this task. Be sure to answer all 4 questions before leaving this item.



Hot Area:

Question 1

What is the subnet broadcast address of the LAN connected to Rcuter1?

- 192.168.8.15
- 192.168.8.31
- 192.168.8.63
- 192.168.8.127

Correct Answer:

Question 1

What is the subnet broadcast address of the LAN connected to Rcuter1?

- 192.168.8.15
- 192.168.8.31
- 192.168.8.63
- 192.168.8.127

The IP address assigned to FA0/1 is 192.168.8.9/29, making 192.168.8.15 the broadcast address.

QUESTION 6

Which statement about the default switch configuration for remote access managements is true?

- A. The system name is set to Cisco.
- B. The Telnet password is set to cisco.
- C. No default gateway is defined.
- D. One IP address is preconfigured.

Correct Answer: C

QUESTION 7

If a router receives a route 192.168.1.0/24 from peers running OSPF and EIGRP, how does the router forward traffic destined to that network?

- A. It uses the path with the lowest metric.
- B. It always uses the path learned from OSPF because OSPF is a vendor-neutral protocol.

- C. It load-balances traffic across both paths.
- D. It always uses the path learned from EIGRP because EIGRP has a lower administrative distance.

Correct Answer: D

QUESTION 8

DRAG DROP

You are configuring a default route on a Cisco router. Drag and drop the commands from the left into the correct sequence on the right. Not all commands are used.

Select and Place:

configure terminal	first
enable	second
exit	third
ip route 0.0.0.0 0.0.0.0 10.20.20.1	fourth
ip routing	fifth

Correct Answer:

enable
configure terminal
ip routing
ip route 0.0.0.0 0.0.0.0 10.20.20.1
exit

QUESTION 9

Which field in a routing table entry is used to identify the immediate destination of a packet?

- A. next-hop
- B. metric
- C. administrative distance
- D. destination network

Correct Answer: A

QUESTION 10

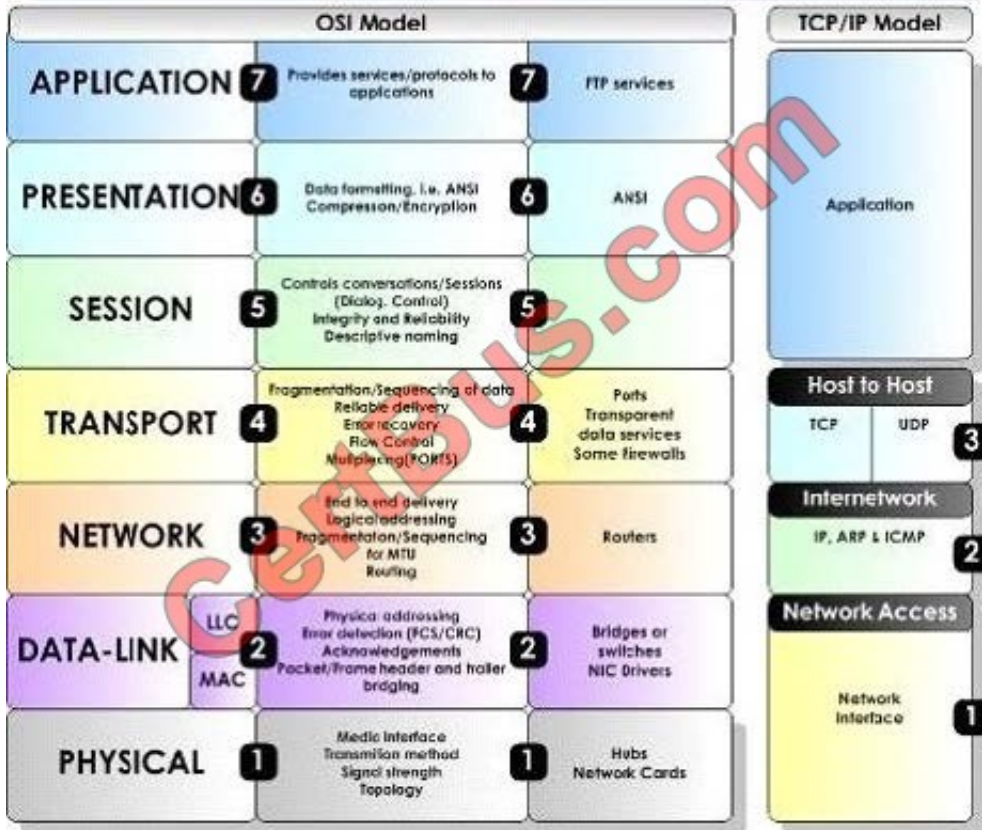
Which OSI layer header contains the address of a destination host that is on another network?

- A. application
- B. session
- C. transport
- D. network
- E. data link
- F. physical

Correct Answer: D

Only network address contains this information. To transmit the packets the sender uses network address and datalink address. But the layer 2 address represents just the address of the next hop device on the way to the sender. It is changed on each hop. Network address remains the same.

The OSI Model (Open Systems Interconnection)



QUESTION 11

Which option can be used in case a backup route is required in the routing table?

- A. floating static route
- B. No extra configuration is required.
- C. next hop
- D. route distribution

Correct Answer: A

QUESTION 12

A router receives identical prefixes from OSPF, EIGRP, RIP and the same route is configured statically.

Which route does the router use to forward traffic?

- A. Static route
- B. RIP route

C. EIGRP route

D. OSPF route

Correct Answer: A

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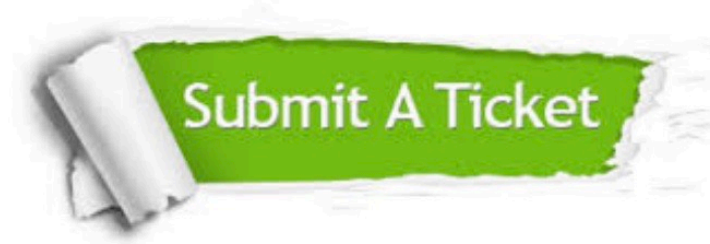
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