CCNA2 v6.0 Chapter 2 Exam Answer 2017

Posted on January 17, 2017 by Admin

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1. **What are two advantages of static routing over dynamic routing? (Choose two.)**

   - Static routing is more secure because it does not advertise over the network.
   - Static routing scales well with expanding networks.
   - Static routing requires very little knowledge of the network for correct implementation.
   - Static routing uses fewer router resources than dynamic routing.
   - Static routing is relatively easy to configure for large networks.

2. **Refer to the exhibit. What routing solution will allow both PC A and PC B to access the Internet with the**

Categories

minimum amount of router CPU and network bandwidth utilization?
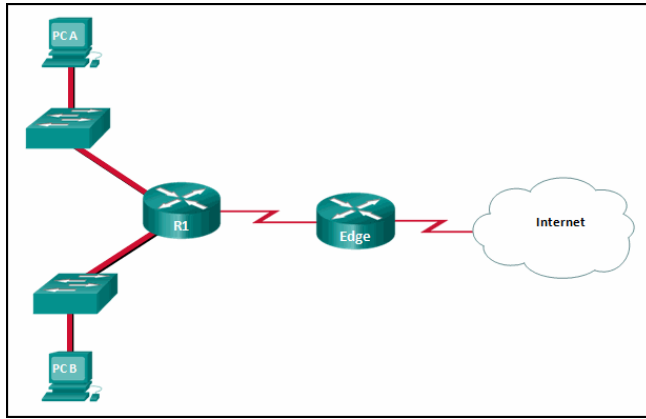
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- Configure a static route from R1 to Edge and a dynamic route from Edge to R1.
- Configure a static default route from R1 to Edge, a default route from Edge to the Internet, and a static route from Edge to R1.
- Configure a dynamic route from R1 to Edge and a static route from Edge to R1.
- Configure a dynamic routing protocol between R1 and Edge and advertise all routes.

3. **What is the correct syntax of a floating static route?**

- ip route 209.165.200.228 255.255.255.248 serial 0/0/0
- ip route 209.165.200.228 255.255.255.248 10.0.0.1 120
- ip route 0.0.0.0 0.0.0.0 serial 0/0/0
- ip route 172.16.0.0 255.248.0.0 10.0.0.1

4. **What is a characteristic of a static route that matches all packets?**

- It backs up a route already discovered by a dynamic routing protocol.
- It uses a single network address to send multiple static routes to one destination address.
- It identifies the gateway IP address to which the router sends all IP packets for which it does not have a learned or static route.
- It is configured with a higher administrative distance than the original dynamic routing protocol has.

5. **What type of route allows a router to forward packets even though its routing table contains no specific route to the destination network?**

- dynamic route
- default route
- destination route
- generic route

6. **Why would a floating static route be configured with an administrative distance that is higher than the administrative distance of a dynamic routing protocol that is running on the same router?**

- to be used as a backup route
- to load-balance the traffic
- to act as a gateway of last resort
- to be the priority route in the routing table

7. **A company has several networks with the following IP address requirements:**
IP phones – 50
PCs – 70
IP cameras – 10
wireless access points – 10
network printers – 10
network scanners – 2

Which block of addresses would be the minimum to accommodate all of these devices if each type of device was on its own network?

- 172.16.0.0/25
- 172.16.0.0/24
- 172.16.0.0/23
- 172.16.0.0/22

8. **What happens to a static route entry in a routing table when the outgoing interface associated with that route goes into the down state?**

- The static route is removed from the routing table.
- The router polls neighbors for a replacement route.
- The static route remains in the table because it was defined as static.
- The router automatically redirects the static route to use another interface.

9. **The network administrator configures the router with the ip route 172.16.1.0 255.255.255.0 172.16.2.2 command. How will this route appear in the routing table?**

- C 172.16.1.0 is directly connected, Serial0/0
- S 172.16.1.0 is directly connected, Serial0/0
- C 172.16.1.0 [1/0] via 172.16.2.2
- S 172.16.1.0 [1/0] via 172.16.2.2

10. **Refer to the exhibit. What two commands will change the next-hop address for the 10.0.0.0/8 network from 172.16.40.2 to 192.168.1.2? (Choose two.)**

```
A# show ip route

<output ommited>
Gateway of last resort is not set.

S    10.0.0.0/8 [1/0] via 172.16.40.2
     64.0.0.0/16 is subnetted, 1 subnets
C       64.100.0.0 is directly connected, Serial0/1/0
C    128.107.0.0/16 is directly connected, Loopback2
     172.16.0.0/24 is subnetted, 1 subnets
C       172.16.40.0 is directly connected, Serial0/0/0
C    192.168.1.0/24 is directly connected, FastEthernet0/0/0
S    192.168.2.0/24 [1/0] via 172.16.40.2
C    198.133.219.0/24 is directly connected, Loopback0
```
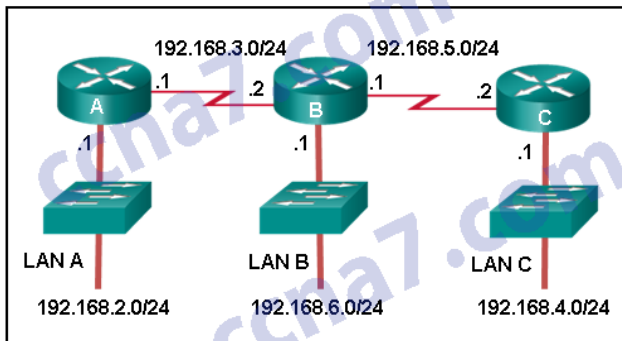
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- A(config)# no network 10.0.0.0 255.0.0.0 172.16.40.2
- A(config)# no ip address 10.0.0.1 255.0.0.0 172.16.40.2
- A(config)# no ip route 10.0.0.0 255.0.0.0 172.16.40.2
- A(config)# ip route 10.0.0.0 255.0.0.0 s0/0/0

- A(config)# ip route 10.0.0.0 255.0.0.0 192.168.1.2

11. **Which type of static route that is configured on a router uses only the exit interface?**

   - recursive static route
   - directly connected static route
   - fully specified static route
   - default static route

12. **Refer to the graphic. Which command would be used on router A to configure a static route to direct traffic from LAN A that is destined for LAN C?**

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   - A(config)# ip route 192.168.4.0 255.255.255.0 192.168.5.2
   - A(config)# ip route 192.168.4.0 255.255.255.0 192.168.3.2
   - A(config)# ip route 192.168.5.0 255.255.255.0 192.168.3.2
   - A(config)# ip route 192.168.3.0 255.255.255.0 192.168.3.1
   - A(config)# ip route 192.168.3.2 255.255.255.0 192.168.4.0

13. **Refer to the exhibit. The network administrator needs to configure a default route on the Border router. Which command would the administrator use to configure a default route that will require the least amount of router processing when forwarding packets?**
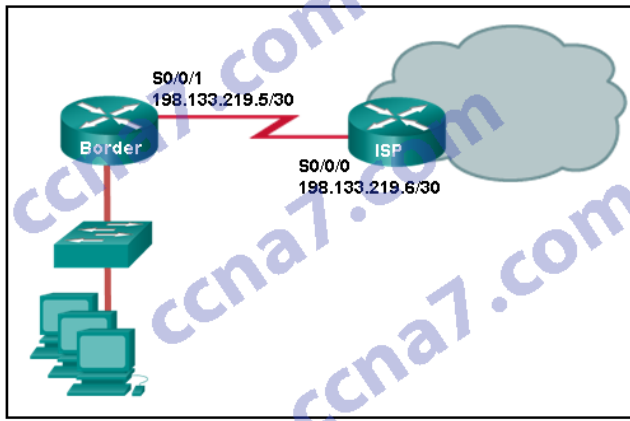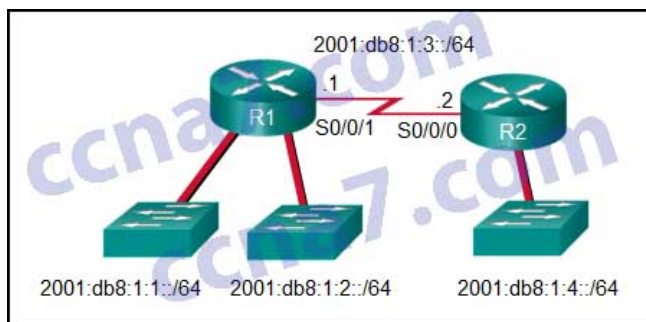
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- Border(config)# ip route 0.0.0.0 0.0.0.0 198.133.219.5
- Border(config)# ip route 0.0.0.0 0.0.0.0 198.133.219.6
- Border(config)# ip route 0.0.0.0 0.0.0.0 s0/0/1
- Border(config)# ip route 0.0.0.0 0.0.0.0 s0/0/0

14. **What two pieces of information are needed in a fully specified static route to eliminate recursive lookups? (Choose two.)**

    - the interface ID exit interface
    - the interface ID of the next-hop neighbor
    - the IP address of the next-hop neighbor
    - the administrative distance for the destination network
    - the IP address of the exit interface

15. **Refer to the exhibit. What command would be used to configure a static route on R1 so that traffic from both LANs can reach the 2001:db8:1:4::/64 remote network?**
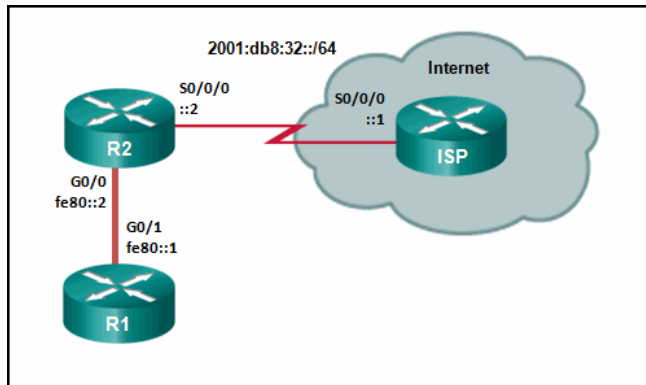

CCNA2 v6.0 Chapter 2 Exam 001

    - ipv6 route ::/0 serial0/0/0
    - ipv6 route 2001:db8:1:4::/64 2001:db8:1:3::1
    - ipv6 route 2001:db8:1:4::/64 2001:db8:1:3::2
    - ipv6 route 2001:db8:1::/65 2001:db8:1:3::1

16. **Refer to the exhibit. Which default static route command would allow R1**

to potentially reach all unknown networks on the Internet?

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- R1(config)# ipv6 route 2001:db8:32::/64 G0/0
- R1(config)# ipv6 route ::/0 G0/0 fe80::2
- R1(config)# ipv6 route ::/0 G0/1 fe80::2
- R1(config)# ipv6 route 2001:db8:32::/64 G0/1 fe80::2

17. **Consider the following command:**

ip route 192.168.10.0 255.255.255.0 10.10.10.2 5

Which route would have to go down in order for this static route to appear in the routing table?

- a default route
- a static route to the 192.168.10.0/24 network
- an OSPF-learned route to the 192.168.10.0/24 network
- an EIGRP-learned route to the 192.168.10.0/24 network

18. **Refer to the exhibit. The routing table for R2 is as follows:**

Gateway of last resort is not set

10.0.0.0/30 is subnetted, 2 subnets
C 10.0.0.0 is directly connected, Serial0/0/0
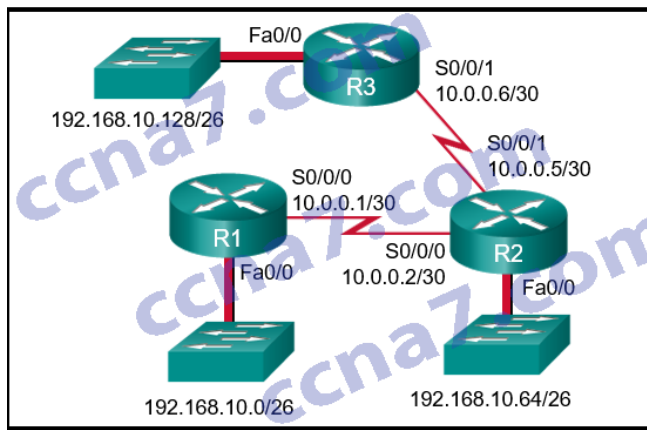**C 10.0.0.4 is directly connected, Serial0/0/1**
192.168.10.0/26 is subnetted, 3 subnets
S 192.168.10.0 is directly connected, Serial0/0/0
C 192.168.10.64 is directly connected, FastEthernet0/0
S 192.168.10.128 [1/0] via 10.0.0.6

What will router R2 do with a packet destined for 192.168.10.129?

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- drop the packet
- send the packet out interface Serial0/0/0
- send the packet out interface Serial0/0/1
- send the packet out interface FastEthernet0/0

19. **A network administrator has entered a static route to an Ethernet LAN that is connected to an adjacent router. However, the route is not shown in the routing table. Which command would the administrator use to verify that the exit interface is up?**

  - show ip interface brief
 - show ip protocols
  - show ip route
  - tracert

20. **Consider the following command:**

  ip route 192.168.10.0 255.255.255.0 10.10.10.2 5

  How would an administrator test this configuration?

  - Delete the default gateway route on the router.
  - Ping any valid address on the 192.168.10.0/24 network.
  - Manually shut down the router interface used as a primary route.
  - Ping from the 192.168.10.0 network to the 10.10.10.2 addres

21. **Refer to the exhibit. The small company shown uses static routing. Users on the R2 LAN have reported a problem with connectivity. What is the issue?**
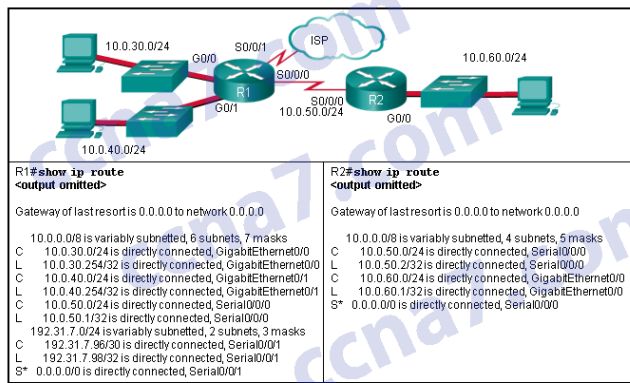
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- R2 needs a static route to the R1 LANs.
- R1 and R2 must use a dynamic routing protocol.
- R1 needs a default route to R2.
- R1 needs a static route to the R2 LAN.
- R2 needs a static route to the Internet.

22. **Which three IOS troubleshooting commands can help to isolate problems with a static route? (Choose three.)**

- show version
- ping
- tracert
- show ip route
- show ip interface brief
- show arp

23. **An administrator issues the ipv6 route 2001:db8:acad:1::/32 gigabitethernet0/0 2001:db8:acad:6::1 100 command on a router. What administrative distance is assigned to this route?**

- 0
- 1
- 32
- 100

24. **Refer to the exhibit. The network engineer for the company that is shown wants to use the primary ISP connection for all external connectivity. The backup ISP connection is used only if the primary ISP connection fails. Which set of commands would accomplish this goal?**
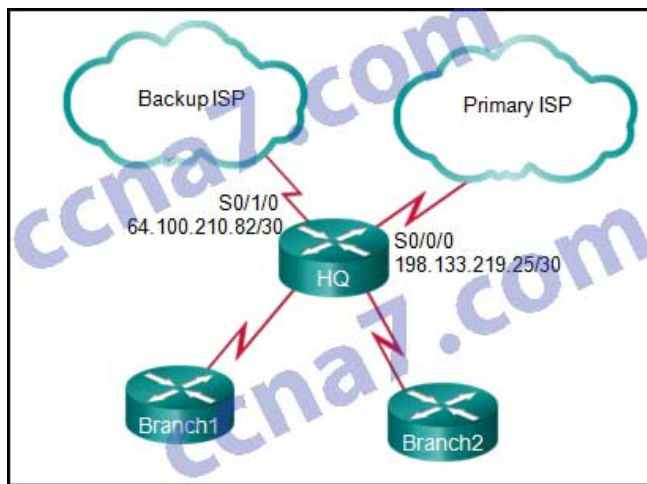
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- ip route 198.133.219.24 255.255.255.252
  ip route 64.100.210.80 255.255.255.252
- ip route 198.133.219.24 255.255.255.252
  ip route 64.100.210.80 255.255.255.252 10
- ip route 0.0.0.0 0.0.0.0 s0/0/0
  ip route 0.0.0.0 0.0.0.0 s0/1/0
- ip route 0.0.0.0 0.0.0.0 s0/0/0
  ip route 0.0.0.0 0.0.0.0 s0/1/0 10

25. **Open the PT Activity. Perform the tasks in the activity instructions and then answer the question.**

    Why are the pings from PC0 to Server0 not successful?

    - The static route to network 192.168.1.0 is misconfigured on Router1.
    - The static route to network 192.168.1.0 is misconfigured on Router2.
    - The static route to network 192.168.2.0 is misconfigured on Router1.
    - The static route to network 192.168.2.0 is misconfigured on Router2.

26. **Open the PT Activity. Perform the tasks in the activity instructions and then answer the question.**

    What IPv6 static route can be configured on router R1 to make a fully converged network?

    - ipv6 route 2001:db8:10:12::/64 S0/0/1
    - ipv6 route 2001:db8:10:12::/64 S0/0/0
    - ipv6 route 2001:db8:10:12::/64 2001:db8:10:12::1
    - ipv6 route 2001:db8:10:12::/64 2001:db8:32:77::1

Comments

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