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CCNA 2 V5.0 ROUTING AND
SWITCHING

CCNA 2 Chapter 6 v5 Exam Answers 2016

👤 [admin](#) November 20, 2013



CCNA 2 Chapter 6 v5 Exam Answers 2016

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.*

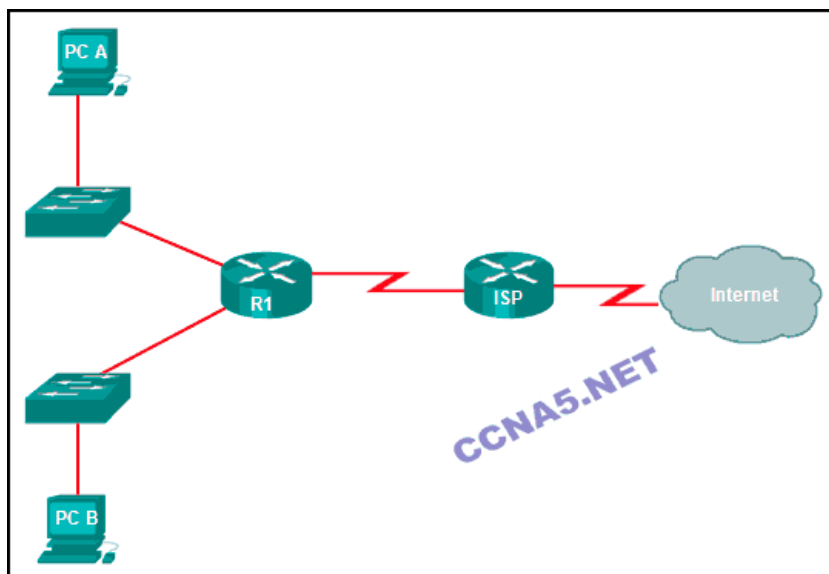
Static routing is relatively easy to configure for large networks.

Static routing requires very little knowledge of the network for correct implementation.

Static routing uses fewer router resources than dynamic routing.*

Static routing scales well with expanding networks.

2



Refer to the exhibit. Which is the best way for PC A and PC B to successfully communicate with sites on the Internet?

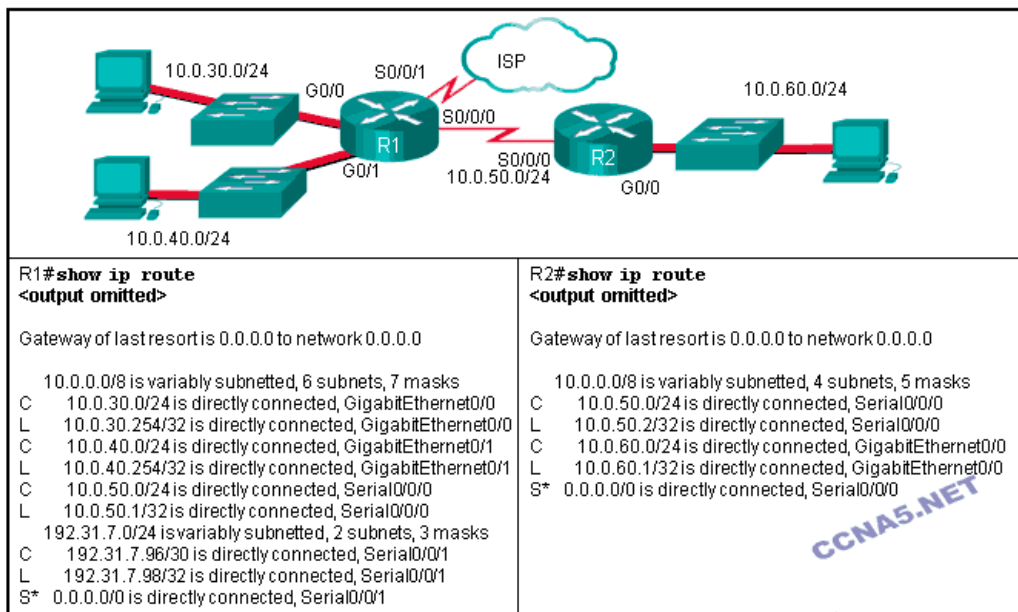
Configure a default route from R1 to ISP and a static route from ISP to R1.*

Configure a static route from R1 to ISP and a dynamic route from ISP to R1.

Configure a routing protocol between R1 and ISP and advertise all the routes.

Configure a dynamic route from R1 to ISP and a static route from ISP to R1.

3



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?

R1 and R2 must use a dynamic routing protocol.

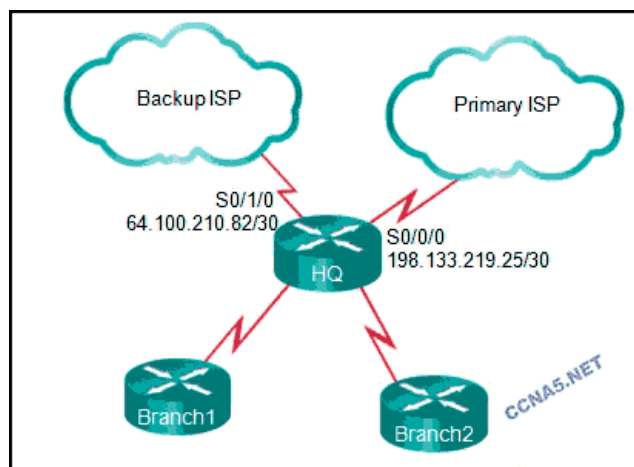
R1 needs a default route to R2.

R2 needs a static route to the Internet.

R2 needs a static route to the R1 LANs.

R1 needs a static route to the R2 LAN.*

4



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?

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
```

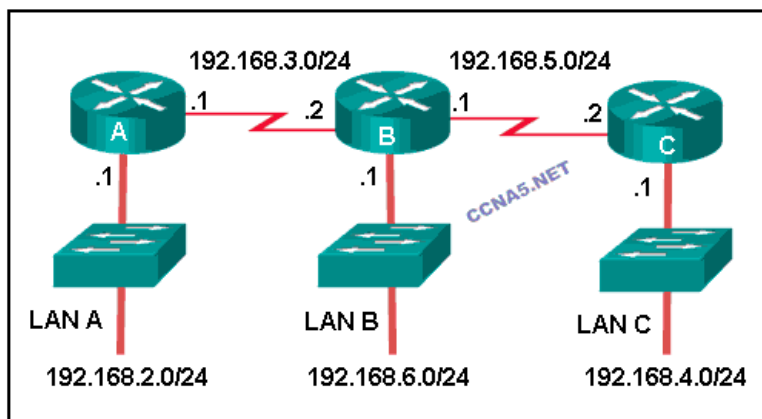
```
ip route 0.0.0.0 0.0.0.0 s0/0/0
ip route 0.0.0.0 0.0.0.0 s0/1/0 10 *****
```

5

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

generic route
destination route
dynamic route
default route*

6



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?

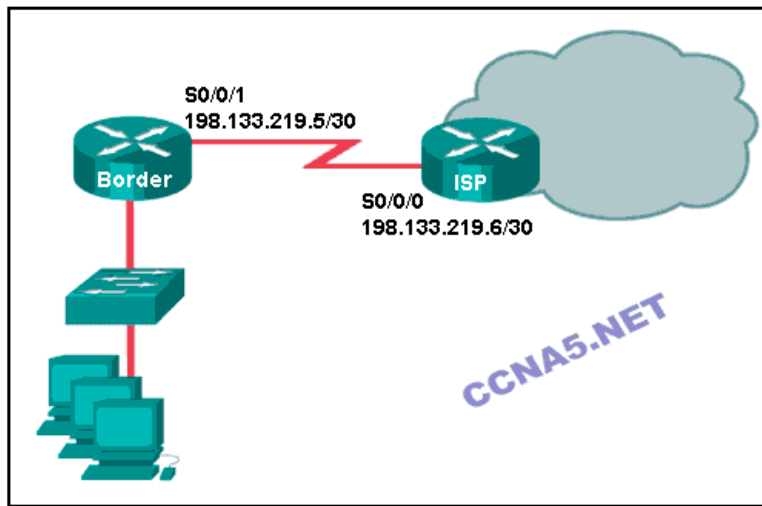
```
A(config)# ip route 192.168.3.2 255.255.255.0 192.168.4.0
A(config)# ip route 192.168.5.0 255.255.255.0 192.168.3.2
A(config)# ip route 192.168.3.0 255.255.255.0 192.168.3.1
A(config)# ip route 192.168.4.0 255.255.255.0 192.168.3.2*
A(config)# ip route 192.168.4.0 255.255.255.0 192.168.5.2
```

7

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?

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

8



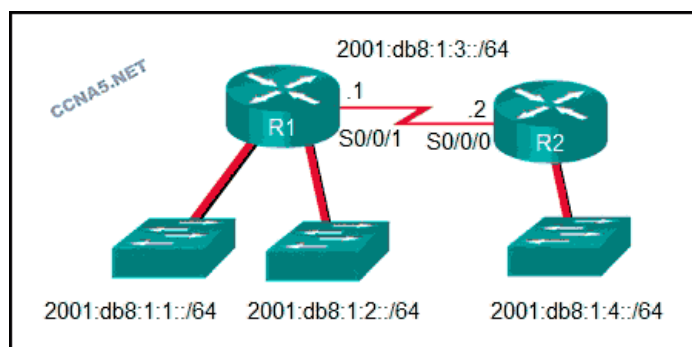
Refer to the exhibit. The network administrator needs to configure a default route on the Border router. Which command would the administrator use to configure a default route that will require the least amount of router processing when forwarding packets?

Border(config)# ip route 0.0.0.0 0.0.0.0 s0/0/1*
 Border(config)# ip route 0.0.0.0 0.0.0.0 198.133.219.5
 Border(config)# ip route 0.0.0.0 0.0.0.0 s0/0/0
 Border(config)# ip route 0.0.0.0 0.0.0.0 198.133.219.6

9
 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 the priority route in the routing table
 to be used as a backup route*
 to act as a gateway of last resort
 to load-balance the traffic

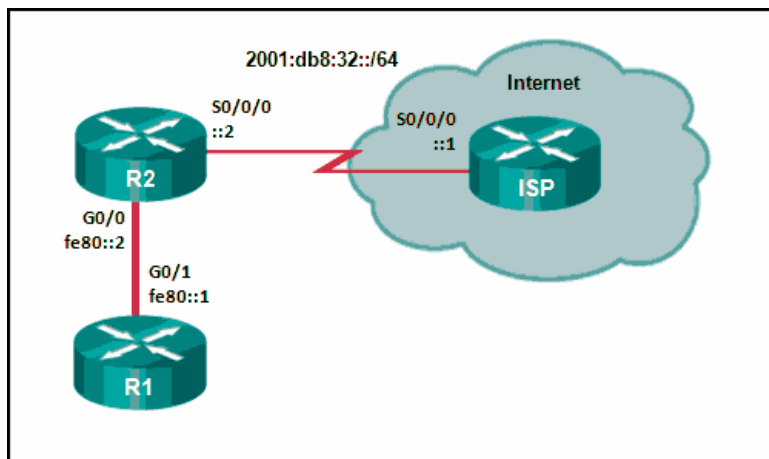
10



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?

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

11



Refer to the exhibit. Which default static route command would allow R1 to potentially reach all unknown networks on the Internet?

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

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 G0/0

12

Which two statements describe classful IP addresses? (Choose two.)

All subnets in a network are the same size.*

Only Class A addresses can be represented by high-order bits 100.

Three of the five classes of addresses are reserved for multicasts and experimental use.

The number of bits used to identify the hosts is fixed by the class of the network.*

Up to 24 bits can make up the host portion of a Class C address.

It is possible to determine which class an address belongs to by reading the first bit.

13

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?

172.16.0.0/23

172.16.0.0/24*

172.16.0.0/22

172.16.0.0/25

14

What does VLSM allow a network administrator to do?

utilize one public IP address to translate multiple private addresses

utilize multiple different subnet masks in the same IP address space*

utilize one dynamic routing protocol throughout the entire network

utilize multiple routing protocols within an autonomous system

utilize one subnet mask throughout a hierarchical network

15

What would be the best summary route for the following networks?

10.50.168.0/23

10.50.170.0/23

10.50.172.0/23

10.50.174.0/24

10.50.160.0/22

10.50.164.0/23

10.50.168.0/16

10.50.168.0/21*

10.50.168.0/22

10.50.168.0/23

16

What is a valid summary route for IPv6 networks 2001:0DB8:ACAD:4::/64, 2001:0DB8:ACAD:5::/64, 2001:0DB8:ACAD:6::/64, and 2001:0DB8:ACAD:7::/64?

2001:0DB8:ACAD:0000::/63

2001:0DB8:ACAD:0000::/64

2001:0DB8:ACAD:0004::/62*

2001:0DB8:ACAD:0004::/63

17

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

directly connected static route*

fully specified static route

default static route

recursive static route

18

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

show ip route*

show ip interface brief*

ping*

tracert

show arp

show version

19

```
A# show ip route
<output omitted>
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
```

CCNA5.NET

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(config)# ip route 10.0.0.0 255.0.0.0 192.168.1.2*

A(config)# ip route 10.0.0.0 255.0.0.0 s0/0/0

A(config)# no ip address 10.0.0.1 255.0.0.0 172.16.40.2

A(config)# no network 10.0.0.0 255.0.0.0 172.16.40.2

A(config)# no ip route 10.0.0.0 255.0.0.0 172.16.40.2*

20

What happens to a static route entry in a routing table when the outgoing interface is not available?

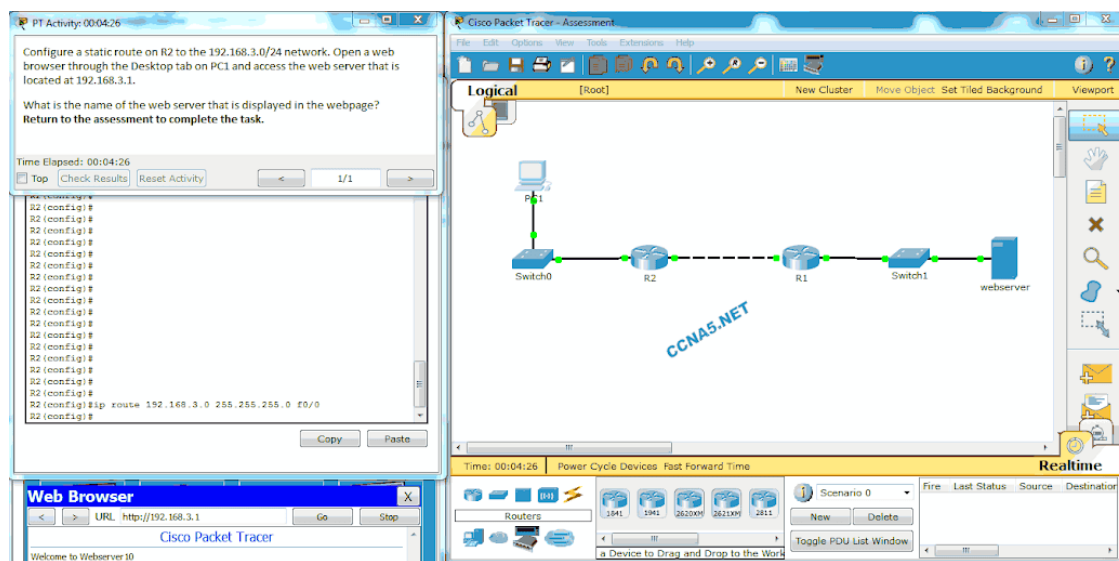
The router polls neighbors for a replacement route.

The router redirects the static route to compensate for the loss of the next hop device.

The route is removed from the table.*

The route remains in the table because it was defined as static.

21



Launch PT Hide and Save PT

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

What is the name of the web server that is displayed in the webpage?

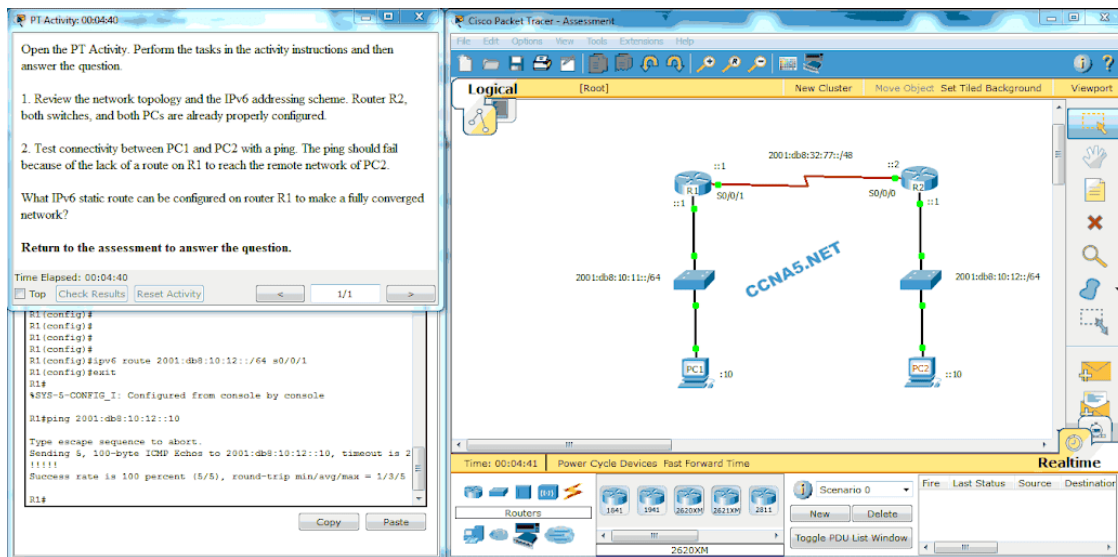
Webserver10*

Main-Webserver

WWW-Server

MNSRV

22



Launch PT Hide and Save PT

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 2001:db8:32:77::1

ipv6 route 2001:db8:10:12::/64 S0/0/0

ipv6 route 2001:db8:10:12::/64 2001:db8:10:12::1

23. 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?

Ping from the 192.168.10.0 network to the 10.10.10.2 address.

Ping any valid address on the 192.168.10.0/24 network.

Delete the default gateway route on the router.

Manually shut down the router interface used as a primary route.*

24. What would be the first step in calculating a summarized route for 5 networks?

Write all subnet masks in binary.

Write all network numbers in binary.*

Starting from the far right, determine the octet in which all the numbers are the same.

Determine the network with the lowest number.

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

the IP address of the exit interface

the interface ID exit interface*

the IP address of the next-hop neighbor*

the interface ID of the next-hop neighbor

the administrative distance for the destination network

26. Refer to the exhibit. What routing solution will allow both PC A and PC B to access the Internet with the minimum amount of router CPU and network bandwidth utilization?

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 static route from R1 to Edge and a dynamic route from Edge to R1.

Configure a dynamic routing protocol between R1 and Edge and advertise all routes.

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

ip route 172.16.0.0 255.248.0.0 10.0.0.1

ip route 209.165.200.228 255.255.255.248 10.0.0.1 120*

ip route 209.165.200.228 255.255.255.248 serial 0/0/0

ip route 0.0.0.0 0.0.0.0 serial 0/0/0

28. 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 router automatically redirects the static route to use another interface.

The static route is removed from the routing table.*

The static route remains in the table because it was defined as static.

The router polls neighbors for a replacement route.

29. Refer to the exhibit.

```
A# show ip route
<output omitted>
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
```

R1 receives a packet destined for the IP address 192.168.2.10. Out which interface will R1 forward the packet?

FastEthernet0/0

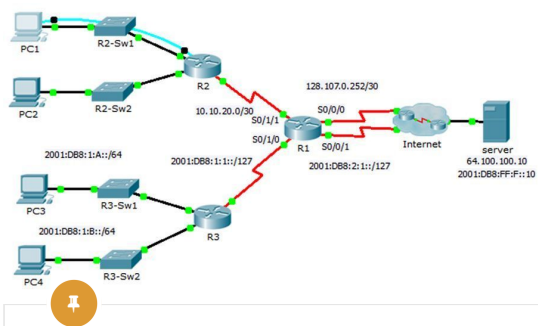
FastEthernet0/1

Serial0/0/0*

Serial0/0/1



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About The Author



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zak

hello,
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thanks
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March 15, 2014

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March 16, 2014

cloudseth



this is RP Chapter 2 Exam – Routing Protocols (Version 5.0)

April 7, 2014

CCNA5.NET Author



All exams in this section are "Introduction to networks v5.0"

April 7, 2014

aziz cisco



Refer to the exhibit. Which default static route command would allow R1 to potentially reach all unknown networks on the Internet?

the right answer is

R1(config)# ipv6 route ::/0 G0/0 fe80::2

not the G0/1

update that pls

November 14, 2014

ktg



"aziz cisco" is wrong. The answer listed by CCNA5 is the correct one, I just tested it.

February 8, 2015

marco



Tanks for answers!

September 10, 2015

constant



New question appeared in the RSE CCENT (ICND1) Certification Exam:

When creating an IPv6 static route, when must a next-hop IPv6 address and an exit interface both be specified?

Possible answers:

- when CEF is enabled
- when the next hop is a link-local address*****
- when the static route is a default route
- when the exit interface is a point-to-point interface

February 6, 2016

Riddi



Question 29.

Isn't the answer s0/0/0???

Thanks.

July 20, 2016

Skrillex



The last question is wrong, its Serial 0/0/0.

July 28, 2016

Otto



The picture for the following question is wrong?!

R1 receives a packet destined for the IP address 192.168.2.10. Out which interface will R1 forward the packet?

December 4, 2016

geroy




as of 2017 this is CCNA 2 Chapter 2 Static Routing

January 31, 2017

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