



642-902^{Q&As}

Implementing cisco ip routing

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QUESTION 1

Which statement describes the difference between a manually configured IPv6 in IPv4 tunnel versus an automatic 6to4 tunnel?

- A. A manually configured IPv6 in IPv4 tunnel allows multiple IPv4 destinations.
- B. An automatic 6to4 tunnel allows multiple IPv4 destinations.
- C. A manually configured IPv6 in IPv4 tunnel does not require dual-stack (IPv4 and IPv6) routers at the tunnel endpoints.
- D. An automatic 6to4 tunnel does not require dual-stack (IPv4 and IPv6) routers at the tunnel endpoints.

Correct Answer: B

An automatic 6to4 tunnel allows isolated IPv6 domains to be connected over an IPv4 network to remote IPv6 networks. The key difference between automatic 6to4 tunnels and manually configured tunnels is that the tunnel is not point-to-point; it is point-to-multipoint -> it allows multiple IPv4 destinations .

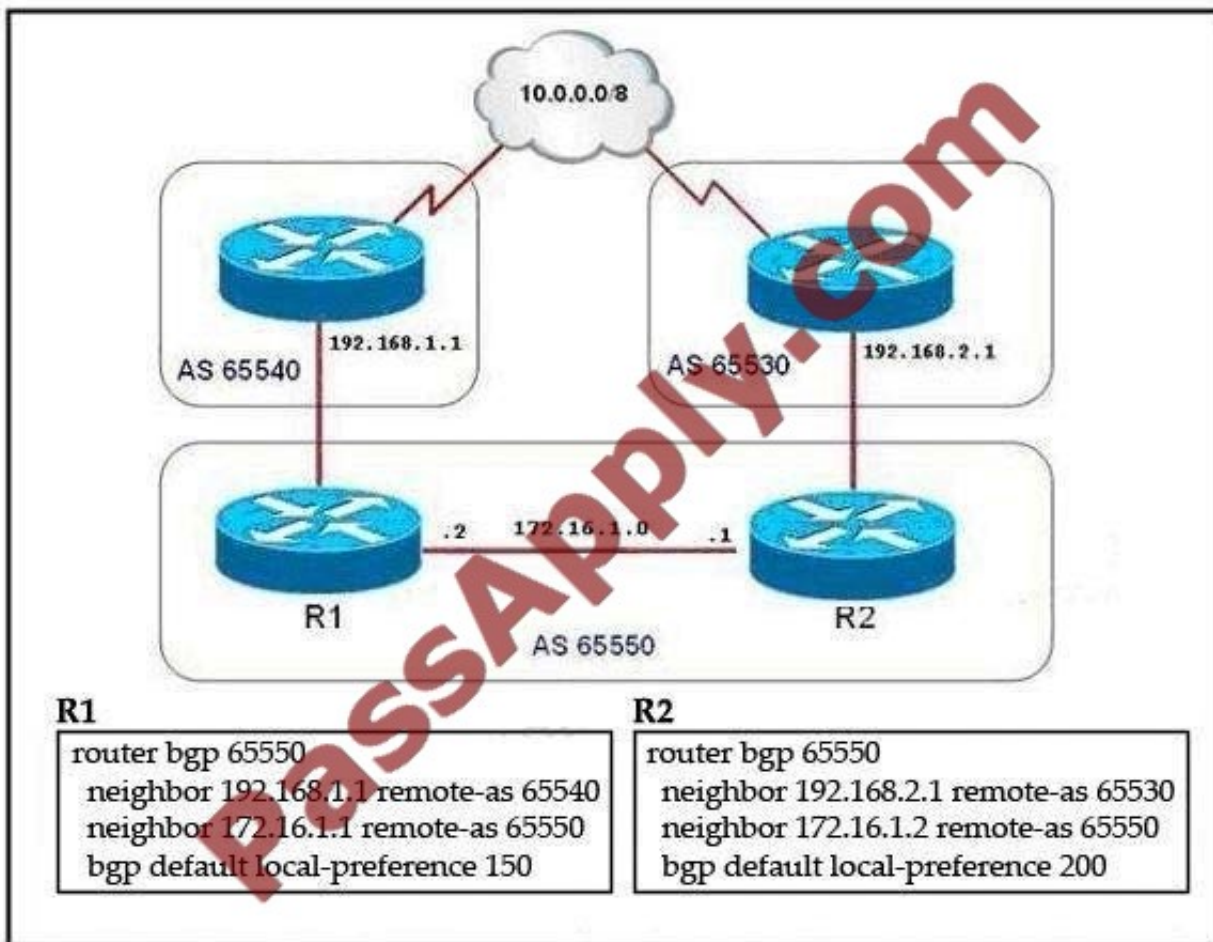
Manually 6to4 is point-to-point -> only allows one IPv4 destination.

Configuring 6to4 (manually and automatic) requires dual-stack routers (which supports both IPv4 and IPv6) at the tunnel endpoints because they are border routers between IPv4 and IPv6 networks.

(Reference: http://www.cisco.com/en/US/docs/ios/ipv6/configuration/guide/ip6tunnel_ps6441_TSD_Products_Configuration_Guide_Chapter.html#wp1055515)

QUESTION 2

Refer to the exhibit.



Network 10.0.0.0/8 is being advertised to autonomous system 65550 via both external links. Which statement about the preferred path to the 10.0.0.0/8 network is true?

- A. Router R1 will be preferred because its neighbor has the higher autonomous system number.
- B. Router R1 will be preferred because it has the lower neighbor IP address.
- C. Router R1 will be preferred because it has a lower local preference.
- D. Router R2 will be preferred because its neighbor has a lower autonomous system number.
- E. Router R2 will be preferred because it has the higher neighbor IP address.
- F. Router R2 will be preferred because it has a higher local preference.

Correct Answer: F

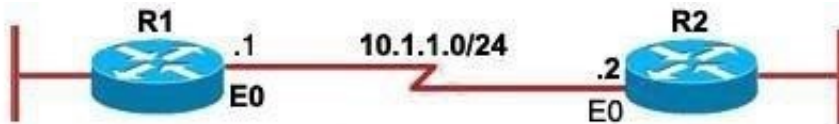
The preferred path to 10.0.0.0/8 network is R2 because it has a higher local preference. The following process summarizes how BGP chooses the best route on a Cisco router. Prefer the route with the highest weight. (The weight attribute is proprietary to Cisco and is local to the router only.) If multiple routes have the same weight, prefer the route with the highest local preference value. (The local preference is used within an autonomous system.) If multiple routes have the same local preference, prefer the route that the local router originated. A locally originated route has a next hop of 0.0.0.0 in the BGP table. If none of the routes were locally originated, prefer the route with the shortest autonomous system path. If the autonomous system path length is the same, prefer the lowest origin code (IGP



In this example, since the weights remained the same (default) value the next thing that is looked at is the highest local preference.

QUESTION 3

Refer to the exhibit. EIGRP has been configured on routers R1 and R2. However, R1 does not show R2 as a neighbor and does not accept routing updates from R2. What could be the cause of the problem?



```

hostname R1
!
interface Ethernet0
!
 ip address 10.1.1.1 255.255.255.0
!
router eigrp 4
 network 10.0.0.0
!
end

hostname R2
!
interface Ethernet0
!
 ip address 10.1.2.2 255.255.255.0
 ip address 10.1.1.2 255.255.255.0 secondary
!
router eigrp 4
 network 10.0.0.0
!
end

```

```

R1#show ip eigrp neighbor
IP-EIGRP neighbors for process
01:20:54: IP-EIGRP: Neighbor 10.1.2.2 not on common subnet for Ethernet0 (10.1.)
01:21:08: IP-EIGRP: Neighbor 10.1.2.2 not on common subnet for Ethernet0 (10.1.)

```

```

R2# show ip eigrp neighbor
IP-EIGRP neighbors for process 4

```

H	Address	Interface	Hold	Uptime (sec)	SRTT (ms)	RTO	Q Cnt	Seq Num	Type
0	10.1.1.1	E0	12	00:00:35	1	5000	1	0	

- A. The no auto-summary command has not been issued under the EIGRP process on both routers.
- B. Interface E0 on router R1 has not been configured with a secondary IP address of 10.1.2.1/24.
- C. EIGRP cannot exchange routing updates with a neighbor's router interface that is configured with two IP addresses.
- D. EIGRP cannot form neighbor relationship and exchange routing updates with a secondary address.

Correct Answer: D

EIGRP updates always use the primary IP address of the outgoing interface as the source address. In this case R2 will use the 10.1.2.2/24 address, which is not in the same subnet of R1, to send EIGRP update to R1. Therefore R1 does not accept this update and generates the "not on common subnet" error message.

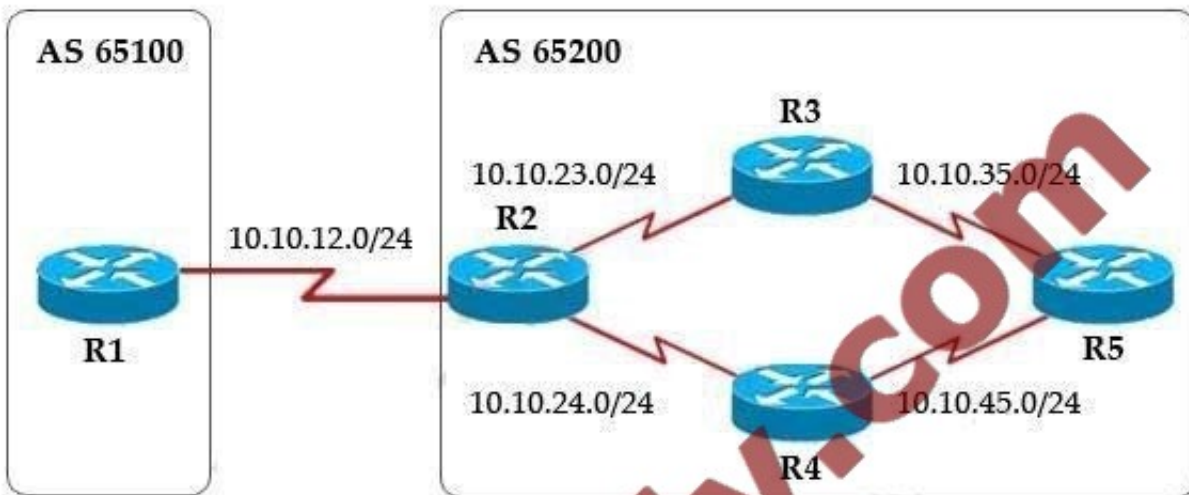


Answer D is a bit unclear. It should state that "EIGRP cannot form neighbor relationship and exchange routing updates if the two primary addresses on two routers are not in the same subnet".

Notice that although R1 does not accept R2 as its EIGRP neighbors but R2 accepts R1 as its EIGRP neighbor accepts R1 hello packets.. For more information about this problem, please read http://www.cisco.com/en/US/tech/tk365/technologies_configuration_example09186a0080093f09.shtml.

QUESTION 4

Refer to the exhibit.



<pre>hostname R1 ! router bgp 65100 neighbor 10.10.12.2 remote-as 65200 no synchronization ! <output omitted></pre>	<pre>hostname R3 ! router bgp 65200 neighbor 10.10.23.2 remote-as 65200 neighbor 10.10.35.5 remote-as 65200 no synchronization ! <output omitted></pre>
<pre>hostname R2 ! router bgp 65200 neighbor 10.10.12.1 remote-as 65100 neighbor 10.10.23.3 remote-as 65200 neighbor 10.10.24.4 remote-as 65200 no synchronization ! <output omitted></pre>	<pre>hostname R4 ! router bgp 65200 neighbor 10.10.24.2 remote-as 65200 neighbor 10.10.45.5 remote-as 65200 no synchronization ! <output omitted></pre>

On the basis of the configuration that is provided, how would the BGP updates that come from router R1 be replicated inside autonomous system 65200?



- A. All BGP updates that are received on router R2 will be sent to routers R3 and R4. Routers R3 and R4 will then forward those BGP updates to router R5.
- B. All BGP updates that are received on router R2 will not be sent to routers R3 and R4.
- C. All BGP updates that are received on router R2 will be sent directly to router R5.
- D. None of the BGP updates that are received on router R2 will ever be received by router R5.

Correct Answer: D

All BGP updates that are received on router R2 will be sent to routers R3 and R4 but R3 and R4 will not forward those BGP updates to R5. This is called the BGP split-horizon rule (which states that a route learned from one IBGP neighbor will

not be advertised to another IBGP neighbor) .

The BGP updates received on router R2 will be sent to R3 and R4 without violating the BGP split-horizon rule because R2 receives updates from an EBGP (R1), not IBGP.

From the configuration of R2, we learn that R2 did not establish neighbor relationship with R5 so they are not neighbors -> no BGP updates will be sent from R2 to R5.

The BGP split-horizon rule prevents updates received on R2 from being sent to R5 is correct.

QUESTION 5

The Cisco SA 500 Series Security Appliances are built specifically for businesses with less than 100 employees. What are three important benefits of this device? (Choose three)

- A. business-grade firewall
- B. premium support via SMART net
- C. site-to-site VPN for remote offices
- D. Cisco IOS software-based
- E. email security
- F. XML support

Correct Answer: ACE

Reference:

http://www.cisco.com/en/US/prod/collateral/vpndevc/ps6032/ps6094/ps9932/at_a_glance_c4-5-562587.pdf (Page 1, see key features and benefits)

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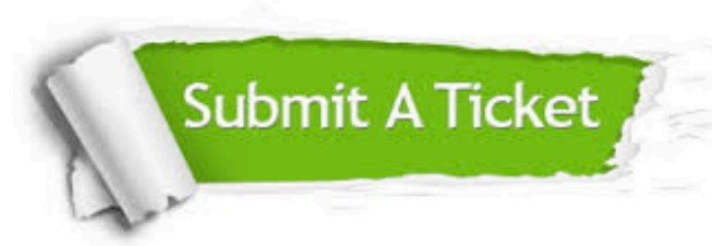
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