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Topics of Implementing Cisco Service Provider Advanced Routing Solutions (300-510 SPRI) Exam

These core topics of **310-510 SPRI practice test** listed below are general recommendations for the material that is likely to be used for the examination. However, on any delivery of the test, other similar topics could also appear. The guidelines below can update at any time without notice to better represent the contents of the **310-510 SPRI exam dumps pdf** and for clarity purposes.

It is recommended that, where possible, the applicant use these courses and/or other resources to provide background information on the exam objectives. The syllabus for the Implementing Cisco Service Provider Advanced Routing Solutions (300-510 SPRI) examination is listed below in detail for each section of **300-510 SPRI exam dumps**:

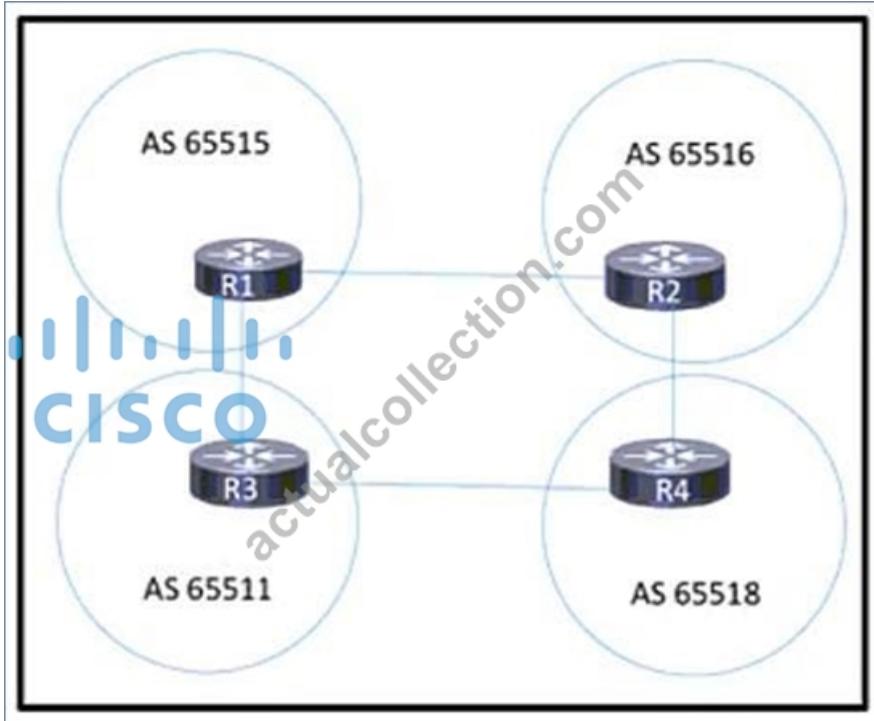
- Implement and verify MPLS
- Implement advanced features to improve convergence in BGP networks
- Implement BGP Security Options
- Describing Segment Routing Traffic Engineering (SR-TE)
- Securing BGP in Service Provider Networks
- Implement PIM-SM Enhancements
- Enable and Optimize PIM-SM
- Implement enhanced Protocol-Independent Multicast - Sparse Mode (PIM-SM) features
- Implement Rendezvous Point Distribution
- Implement OSPF Special Area Types (IPv4 and IPv6)
- Implementing Segment Routing
- Implement Multicast Source Discovery Protocol (MSDP) in the interdomain environment
- Configure and Verify Interior Gateway Protocol (IGP) Segment Routing
- Implementing and Verifying MPLS
- Implement IPv6 tunneling mechanisms
- Implement and verify segment routing technology within an interior gateway protocol
- Implement and troubleshoot MPLS traffic engineering
- Implement BGP Route Reflectors
- Implement Multiarea IS-IS
- Implement Cisco MPLS TE
- Scaling BGP in Service Provider Networks
- Implement and verifying the PIM-SM protocol
- Implement mechanisms for dynamic Rendezvous Point (RP) distribution
- Implement Tunnels for IPv6
- Influencing Border Gateway Protocol Route Selection
- Implementing Interdomain IP Multicast
- Implementing Cisco MPLS Traffic Engineering
- Describe and compare core multicast concepts
- Deploying IPv6 Tunneling Mechanisms
- Implementing and Verifying Open Shortest Path First Multiarea Networks

Cisco Implementing Cisco Service Provider Advanced Routing Solutions Sample Questions (Q264-Q269):

NEW QUESTION # 264

Refer to the exhibit. Routers R1, R2, R3, and R4 are peer routers that reside in different administrative domains. PIM-SM is running in each autonomous system, and EBGP is configured between the peers. A network administrator has just implemented MSDP between the connected peers. When the administrator enabled the MSDP configuration, R1 and R2 failed to establish a peering relationship. All other connected routers successfully established peering sessions.

Which action must the engineer take to resolve the issue between R1 and R2?



- A. Set the same MSDP password on both peers.
- B. Implement BGP authentication between the peers.
- C. Configure the peers to be in the same autonomous system.
- D. Change the MSDP authentication method to clear text.

Answer: A

NEW QUESTION # 265

Drag and drop the features from the left into the order of operations for SRv6 SSH field creation and forwarding on the right.



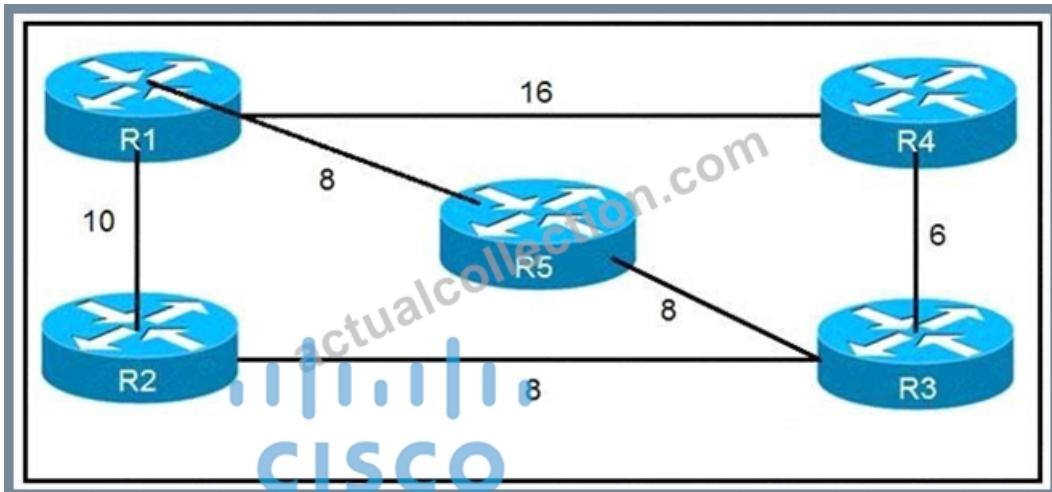
Answer:

Explanation:

segments left	
last entry	
packet is forwarded	
next header	
routing type	
segment list	
next header	first
routing type	second
segments left	third
last entry	fourth
segment list	fifth
packet is forwarded	

NEW QUESTION # 266

Refer to the exhibit



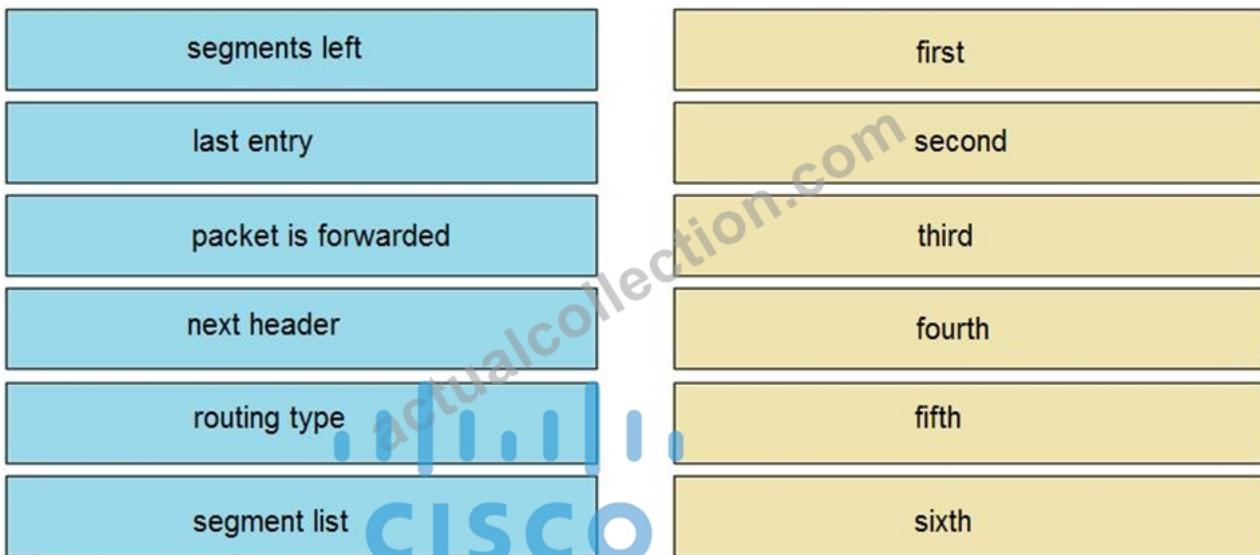
Which router does R1 install as an alternate next hop when trying to reach R3 if LFA is enabled?

- A. R3
- B. R2
- C. R4
- D. R5

Answer: B

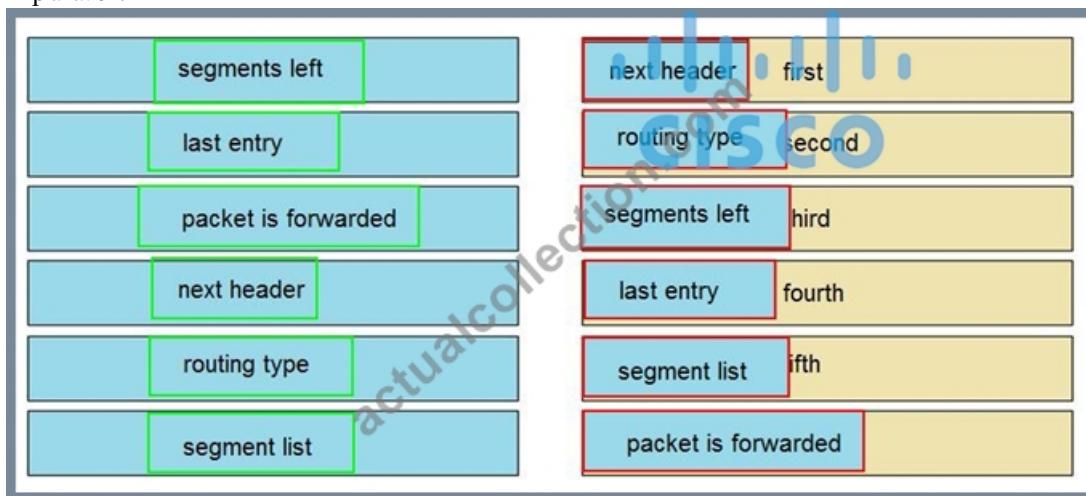
NEW QUESTION # 267

Drag and drop the features from the left into the order of operations for SRv6 SSH field creation and forwarding on the right.



Answer:

Explanation:



NEW QUESTION # 268

Refer to the exhibit.

```
R1
interface FastEthernet0/0
 ip address 192.168.1.1
 255.255.255.0
 ip ospf authentication
 ip ospf authentication-key Cisco
 ip ospf 1 area 0
 speed auto
 duplex auto

router ospf 1
 log-adjacency-changes
 area 0 authentication
 message-digest
```

```
R2
interface FastEthernet0/0
 ip address 192.168.1.2
 255.255.255.0
 ip ospf authentication-key Cisco
 ip ospf 1 area 0
 speed auto
 duplex auto

router ospf 1
 log-adjacency-changes
 area 0 authentication
 message-digest
```

While applying the configurations on two routers an engineer notices that OSPF adjacency Between them remains down Through the ping test the engineer confirmed that both me routers have Layer 3 reachability between them Which action should me engineer take to make the adjacencies to full?

- A. Delete the area 0 authentication message-digest command from the OSPF process in R2
- **B. Enter the command `ip ospf authentication` in R2 interface**
- C. Enable OSPF just inside the router OSPF process not in the interfaces of any router
- D. Delete the area 0 authentication message-digest command from the OSPF process in R1

Answer: B

NEW QUESTION # 269

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