

100% Pass 300-510 - Efficient Implementing Cisco Service Provider Advanced Routing Solutions Test Score Report



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All time and energy you devoted to the 300-510 preparation quiz is worthwhile. With passing rate up to 98 percent and above, our 300-510 practice materials are highly recommended among exam candidates. So their validity and authority are unquestionable. Our 300-510 Learning Materials are just staring points for exam candidates, and you may meet several challenging tasks or exams in the future about computer knowledge, we can still offer help. Need any help, please contact with us again!

Cisco 300-510 certification exam is designed for IT professionals who want to gain expertise in implementing Cisco service provider advanced routing solutions. Implementing Cisco Service Provider Advanced Routing Solutions certification exam tests the candidate's knowledge of Cisco's service provider technologies and solutions. 300-510 exam covers various topics such as routing protocols, VPNs, QoS, and MPLS. Passing 300-510 exam demonstrates the candidate's ability to provide advanced routing solutions to service providers.

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 troubleshoot MPLS traffic engineering
- Implementing PIM-SM Protocol
- Implement OSPF Special Area Types (IPv4 and IPv6)
- Implementing Route Redistribution
- Implement advanced features to improve convergence in BGP networks
- Improving BGP Convergence and Implementing Advanced Operations
- Deploying IPv6 Tunneling Mechanisms
- Implement enhanced Protocol-Independent Multicast - Sparse Mode (PIM-SM) features
- Implementing and Verifying MPLS
- Describe how traffic engineering is used in segment routing networks
- Configure and Verify Interior Gateway Protocol (IGP) Segment Routing
- Implement Multiarea IS-IS
- Implement Rendezvous Point Distribution
- Implement BGP security options
- Implement Multicast Source Discovery Protocol (MSDP) in the interdomain environment
- Describing Segment Routing Traffic Engineering (SR-TE)
- Troubleshoot OSPF, ISIS, and BGP
- Implement and verifying the PIM-SM protocol
- Implementing and Verifying Open Shortest Path First Multiarea Networks
- Implement Cisco MPLS TE
- Scaling BGP in Service Provider Networks
- Implement PIM-SM Enhancements
- Troubleshoot Routing Protocols
- Implementing PIM-SM Enhancements
- Securing BGP in Service Provider Networks
- Implementing Interdomain IP Multicast
- Influence BGP Route Selection
- Implement Route Redistribution
- Influencing Border Gateway Protocol Route Selection
- Troubleshooting Routing Protocols

Cisco 300-510 Exam is designed for IT professionals who are interested in pursuing a career in advanced routing solutions for service providers. It is also suitable for individuals who are already working in this field and want to enhance their skills and knowledge in advanced routing technologies. 300-510 exam covers a broad range of topics related to routing solutions, including the design, implementation, and troubleshooting of complex routing protocols, as well as the use of advanced tools and techniques to optimize network performance. Candidates who pass the Cisco 300-510 exam demonstrate their proficiency in advanced routing technologies and their ability to provide effective routing solutions for service providers.

>> **300-510 Test Score Report** <<

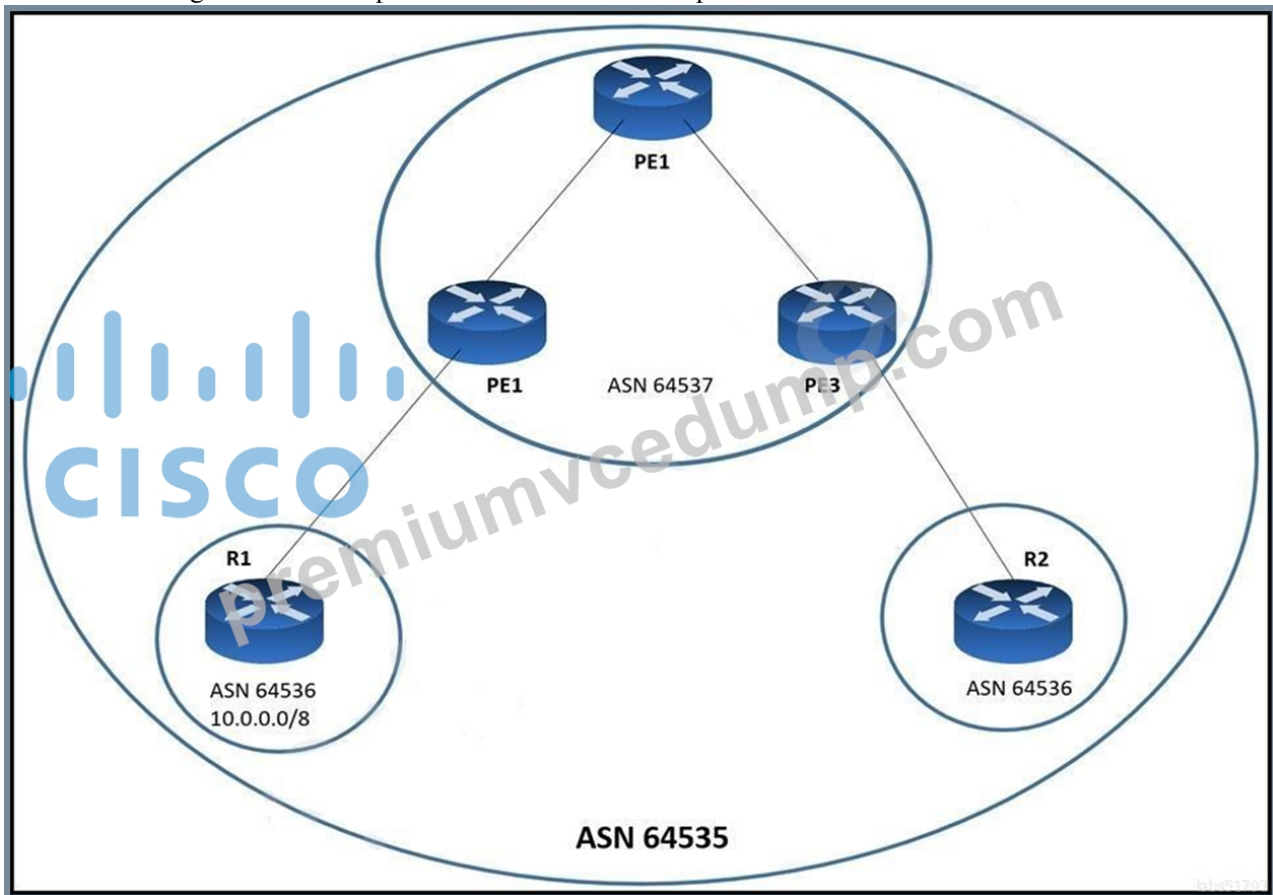
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Cisco Implementing Cisco Service Provider Advanced Routing Solutions Sample Questions (Q110-Q115):

NEW QUESTION # 110

Refer to the exhibit. A network engineer has divided AS into confederations. Due to repeated ASN, when the 10.0.0.0/8 prefix from R1 arrives to R2, BGP automatically rejects it. What should the engineer do to fix the problem so that BGP allows that prefix on R2?



- A. Configure the command `allowas-in` on R2.
- B. Configure the command `allowas-in` on all the PE routers.
- C. Configure the command `as-override` on R1.
- D. Configure the command `as-override` on R2.

Answer: A

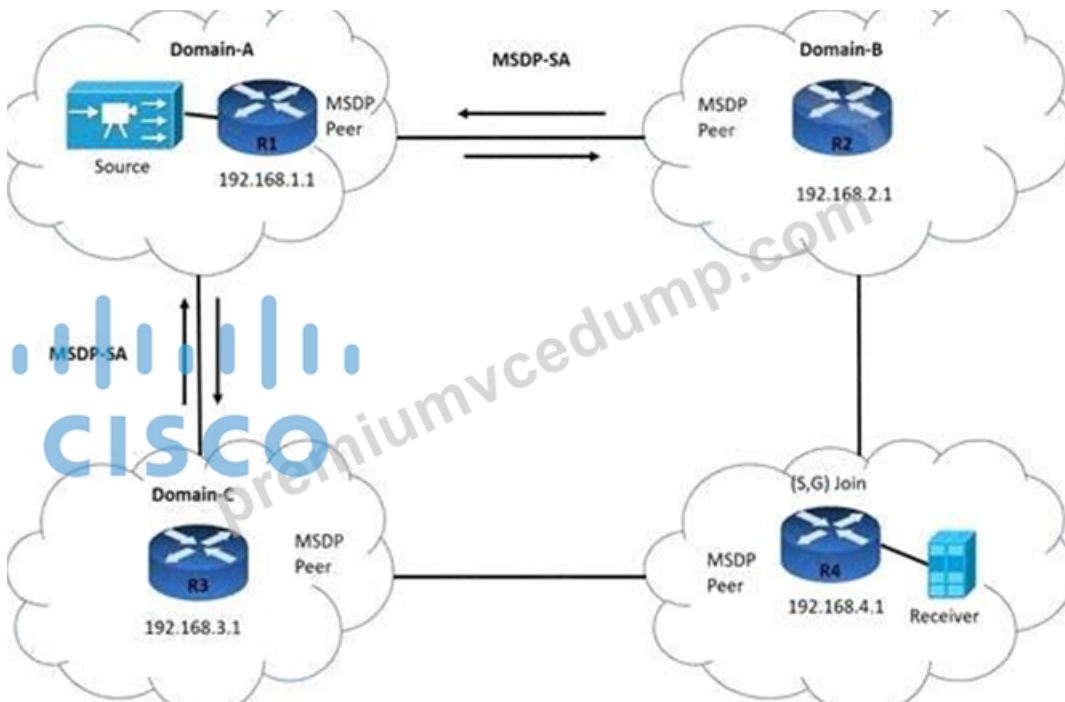
Explanation:

<https://www.cisco.com/c/en/us/support/docs/ip/border-gateway-protocol-bgp/112236-allowas-in-bgp-config-example.html>

NEW QUESTION # 111

Refer to the exhibit. R3 is:

- failing to accept multicast RP information from Domain-A
- advertising MSDP SA messages to R1 and R4
- receiving SA messages only from R4



R3 is:

Which command must the engineer implement to resolve the issue?

- A. R3# no ip msdp peer 192.168.1.1
- B. R3# no ip msdp sa-filter in 192.168.1.1
- C. R3# ip msdp sa-filter in 192.168.3.1
- D. R3# ip msdp sa-filter out 192.168.1.1

Answer: C

Explanation:

<https://allthingsnetworking.wordpress.com/2014/06/27/pim-msdp-sa-filter/>

NEW QUESTION # 112

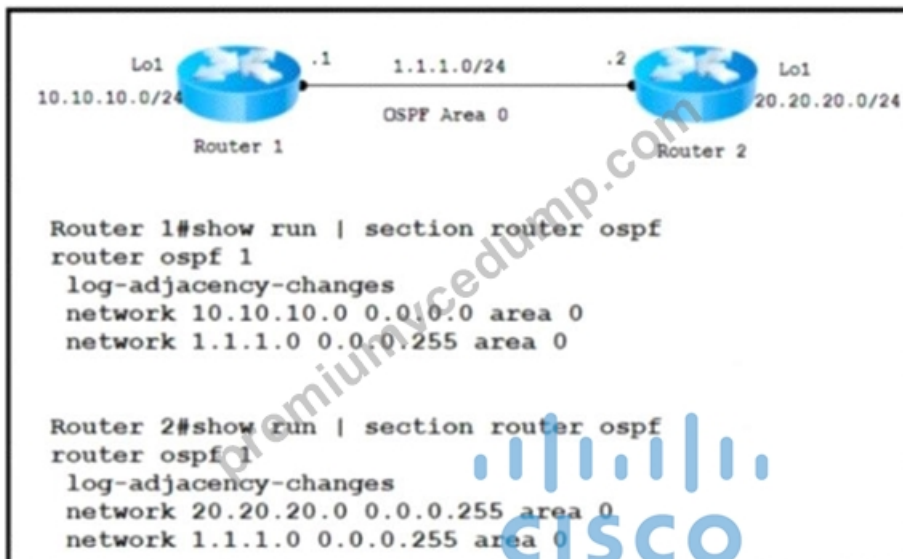
What is the role of segment routing mapping server?

- A. It works with IGP instances to calculate the prefix-SIDs in the absence of a mapping policy.
- B. It selects multiple mapping entries to create overlapping active mapping policies.
- C. It reads and translates remotely received SIDs from other mapping servers to create SID mapping entries.
- D. It advertises a local SID mapping policy to all the mapping clients.

Answer: D

NEW QUESTION # 113

Refer to the exhibit.



A network engineer at a large ISP with an employee ID 4876 94 052 started to configure OSPF on two routers. The engineer notices that router 1 learned about network 20.20.20.0/24 from router 2, but router 2 did not learn about 10.10.10.0/24 from router 1. Layer 2 and Layer 3 connectivity are working between the two routers and the physical connection between the devices is functioning. Which action must the engineer take to resolve the issue?

- A. Replace the router 1 OSPF network configuration with network 10.10.10.0 0.0.0.255 area 0.
- B. On router 1 configure a route map with a distribution list for the 10.10.10.0/24 network.
- C. Replace the router 2 OSPF network configuration with network 10.10.10.0 0.0.0.255 area 0.
- D. On router 2 configure a route map with a distribution list for the 10.10.10.0/24 network.

Answer: A

NEW QUESTION # 114

Refer to the exhibit.

R2#sh ip ospf neighbor							
Neighbor	ID	Pri	State	Dead Time	Address	Interface	
10.1.3.3	1	FULL/BDR	00:00:37	10.1.234.3	Ethernet0/0.234		
10.1.4.4	1	FULL/DR	00:00:35	10.1.234.4	Ethernet0/0.234		
10.1.5.5	1	2WAY/DROTHER	00:00:35	10.1.234.5	Ethernet0/0.234		

Why is neighbor 10.1.5.5 stuck in "2WAY" state?

- A. Router ID 10.1.5.5 is not reachable from R2
- B. It is an expected behavior when OSPF network type is broadcast
- C. OSPF authentication has failed between R2 and 10.1.5.5
- D. OSPF parameters (Area ID or hello interval) are mismatched between R2 and 10.1.5.5

Answer: B

NEW QUESTION # 115

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