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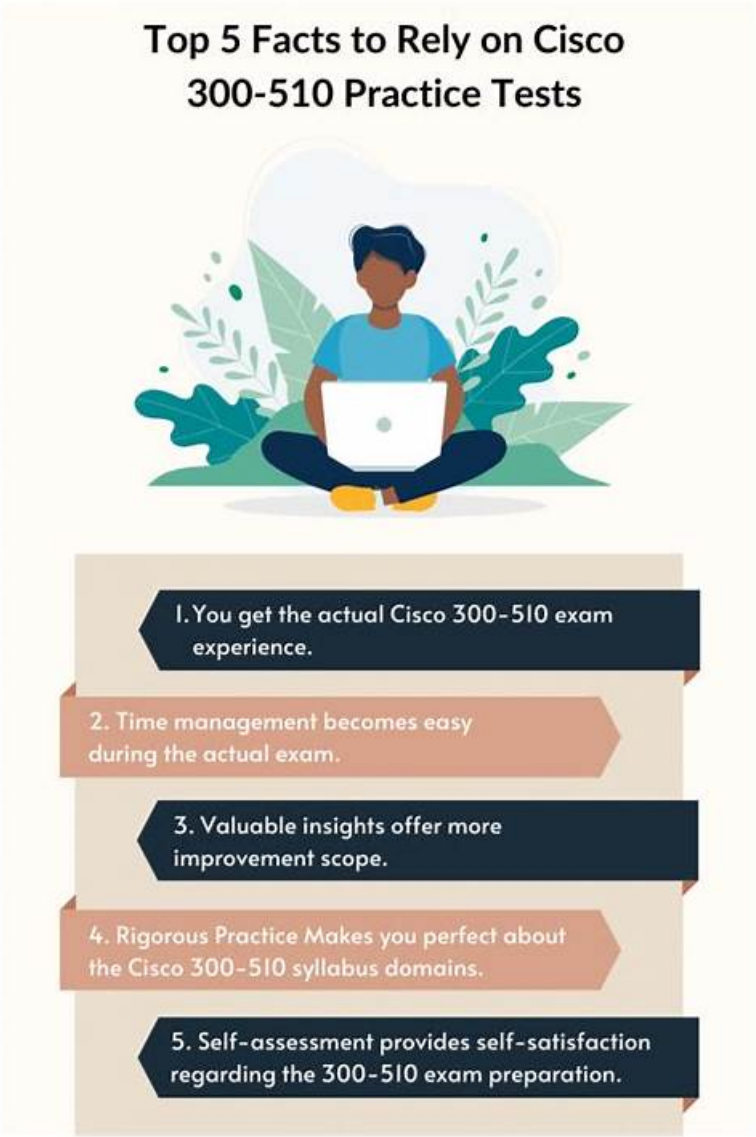

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Candidates who pass 300-510 Certification prove their worth in the Cisco field. The Implementing Cisco Service Provider Advanced Routing Solutions certification is proof of their competence and skill. This skill is highly useful in big Cisco companies that facilitate a candidate's career. To get certified, it is very important that you pass the Implementing Cisco Service Provider Advanced Routing Solutions certification exam to prove your skills to the tech company. For this task, you require high-quality and accurate prep material to help you out. And many people don't get reliable material and ultimately fail. Failure leads to a loss of time and money.

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 Multiarea IS-IS
- Implement enhanced Protocol-Independent Multicast - Sparse Mode (PIM-SM) features
- Describe and compare core multicast concepts
- Securing BGP in Service Provider Networks
- Implementing Segment Routing
- Implement MPLS in the Service Provider Core
- Implement and verify MPLS
- Implement BGP Security Options
- Implement IPv6 tunneling mechanisms
- Implementing and Verifying Open Shortest Path First Multiarea Networks
- Implement and verify segment routing technology within an interior gateway protocol
- Implement Rendezvous Point Distribution
- Implement Cisco MPLS TE
- Implementing PIM-SM Enhancements
- Implementing Cisco MPLS Traffic Engineering
- Implement and verifying the PIM-SM protocol
- Deploying IPv6 Tunneling Mechanisms
- Enable and Optimize PIM-SM
- Implementing IP Multicast Concepts and Technologies
- Implement mechanisms for dynamic Rendezvous Point (RP) distribution
- Implementing Route Redistribution
- Influence BGP Route Selection
- Influencing Border Gateway Protocol Route Selection
- Troubleshoot Routing Protocols
- Implementing and Verifying Intermediate System to Intermediate System Multilevel Networks
- Scaling BGP in Service Provider Networks
- Implement BGP security options
- Implement advanced features to improve convergence in BGP networks
- Troubleshoot OSPF, ISIS, and BGP

Earning the Cisco Certified Specialist - Service Provider Advanced Routing Implementation certification is a valuable achievement for IT professionals who are looking to advance their careers in the service provider industry. Implementing Cisco Service Provider Advanced Routing Solutions certification demonstrates a high level of expertise and knowledge in advanced routing solutions and is recognized by employers and industry professionals worldwide.

To prepare for the Cisco 300-510 Certification Exam, candidates can take advantage of various training resources provided by Cisco, including instructor-led training courses, e-learning modules, and practice exams. The training courses cover the key concepts and technologies related to advanced routing solutions, such as MPLS VPNs, BGP routing policies, and SR architecture. The e-learning modules offer interactive learning experiences that allow candidates to study at their own pace, while the practice exams help them assess their knowledge and readiness for the actual exam.

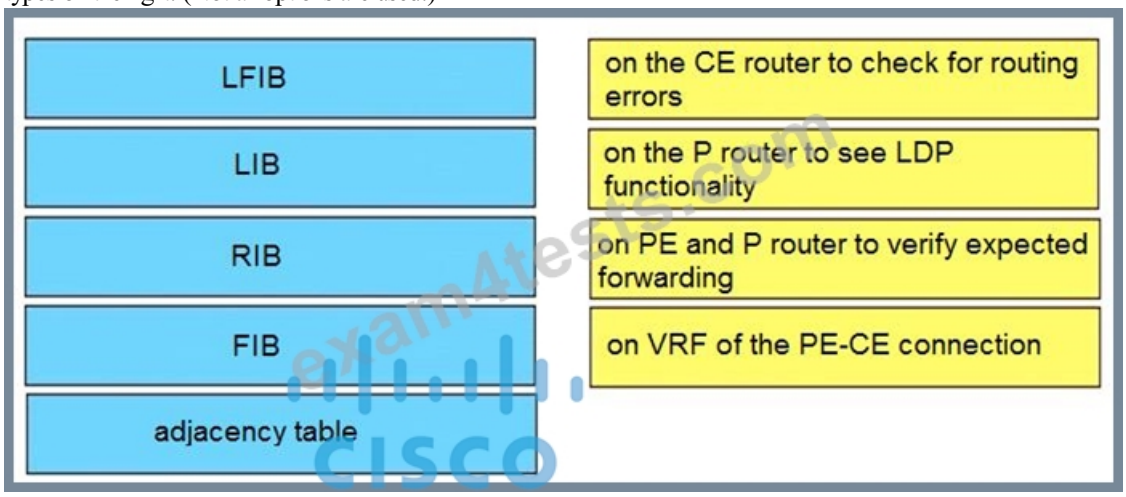
Exam 300-510 Experience | 300-510 Reliable Test Simulator

Obtaining the 300-510 certification is not an easy task. Only a few people can pass it successfully. If you want to be one of them, please allow me to recommend the 300-510 learning questions from our company to you, the superb quality of 300-510 Exam Braindumps we've developed for has successfully helped thousands of candidates to realize their dreams. And our 300-510 study materials have helped so many customers pass the exam.

Cisco Implementing Cisco Service Provider Advanced Routing Solutions Sample Questions (Q176-Q181):

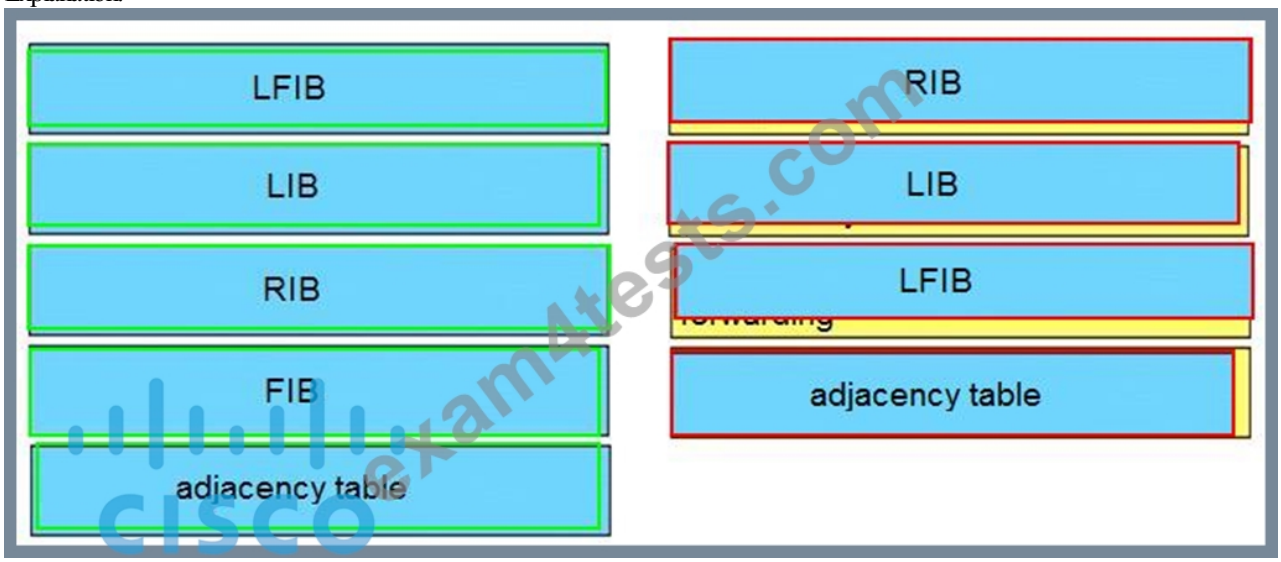
NEW QUESTION # 176
An engineer is troubleshooting end-to-end customer traffic across an MPLS VPN service provider network. Which tasks should the engineer use to solve the routing issues? Drag and drop the table types from the left onto the most useful troubleshooting tasks/router

types on the right. (Not all options are used.)



Answer:

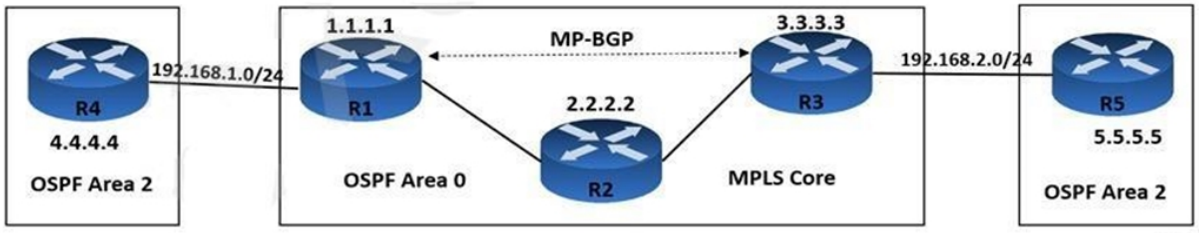
Explanation:



NEW QUESTION # 177

Refer to the exhibit. An engineer is troubleshooting connectivity issues on the MPLS core network. A customer connected through R4 cannot reach the OSPF domain on R5. While checking the routing table of R1, the engineer cannot see all the routes from R3 and R5. Which task must the engineer perform so that R4 is able to reach R5?

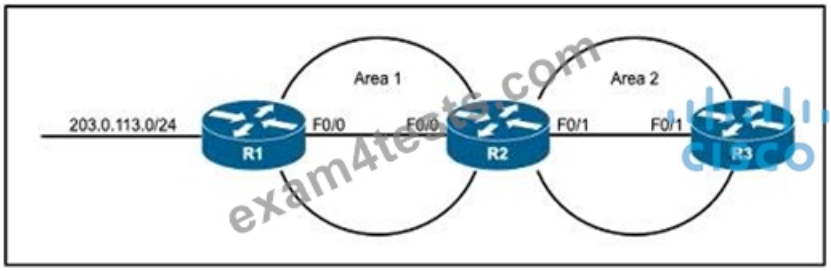
```
R1#sh ip route
Codes: C - connected, S - static, R- RIP, M - mobile, B - BGP
 D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
 N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
 E1 - OSPF external type 1, E2 - OSPF external type 2
 i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
 ia - IS-IS inter area, * - candidate default, U - per-user
static route o - ODR, P - periodic downloaded static route
Gateway of last resort is not set
1.0.0.0/32 is subnetted, 1 subnets
C 1.1.1.1 is directly connected, Loopback0
 2.0.0.0/32 is subnetted, 1 subnets
O 2.2.2.2 [110/11] via 10.0.0.2, 01:38:48, FastEthernet 0/0
 3.0.0.0/32 is subnetted, 1 subnets
O 3.3.3.3 [110/21] via 10.0.0.2, 01:02:29, FastEthernet 0/0
 10.0.0.0/24 is subnetted, 2 subnets
C 10.0.0.0 is directly connected, FastEthernet 0/0
O 10.0.1.0 [110/20] via 10.0.0.2, 01:02:39, FastEthernet 0/0
R1#sh ip bgp vpnv4 vrf RED
BGP table version is 9, local router ID is 1.1.1.1
Status codes: s suppressed, d damped, h history, * valid,
 > best, r RIB-failure, S Stale Origin codes: i - IGP, e - EGP, ? - incomplete
 Network Next Hop Metric LocPrf Weight Path Route Distinguisher: 4:4 (default for vrf RED)
*>i5.5.5.5/32 3.3.3.3 11 100 0 ?
*>i192.168.2.0 3.3.3.3 0 100 0 ?
R4#sh ip route
4.0.0.0/32 is subnetted, 1 subnets
C 4.4.4.4 is directly connected, Loopback0
C 192.168.1.0/24 is directly connected, FastEthernet 0/
```



- A. Enable MP-BGP peering on routers R1, R3, R4, and R5.
- B. Enable route filtering between routers R1 and R3.
- C. Enable OSPF on the Area-0 routers and configure MP-BGP between routers R1 and R3.
- D. Enable OSPF peering and configure route redistribution between routers R4 and R1.

Answer: A

NEW QUESTION # 178
Refer to the exhibit.



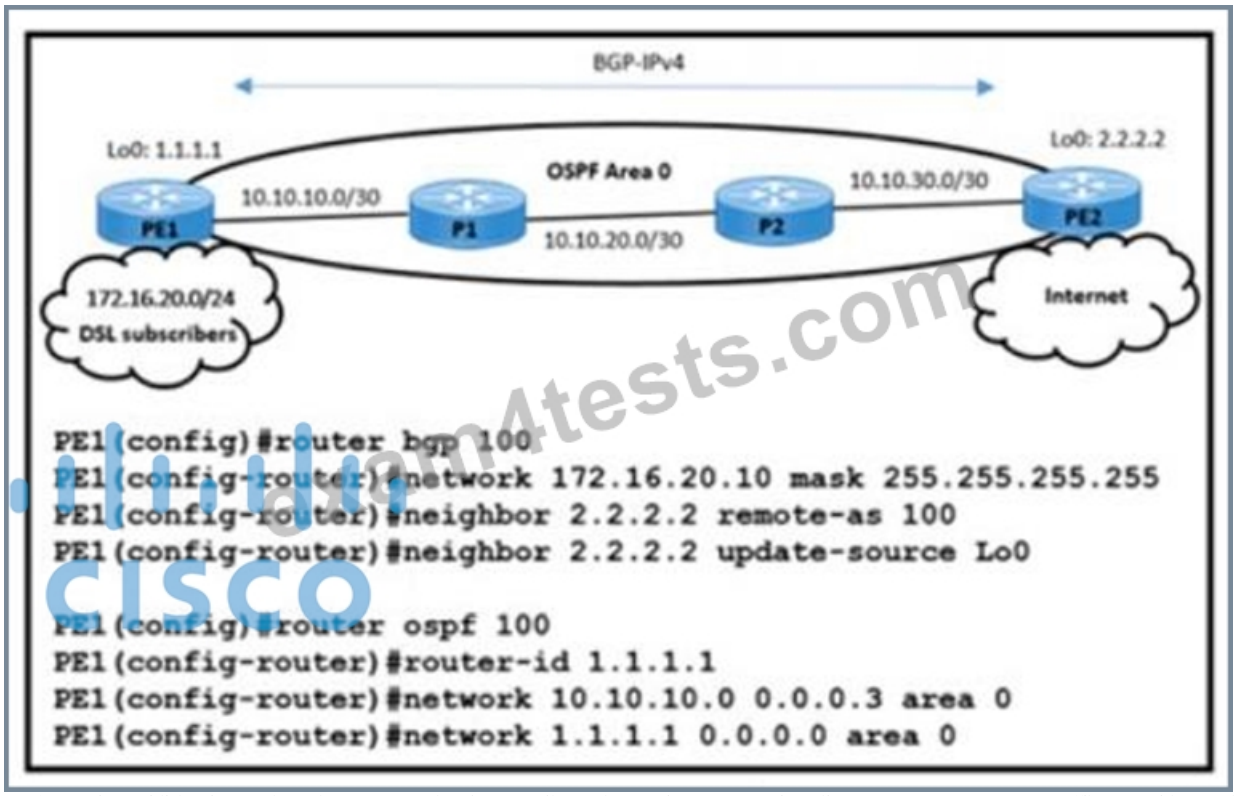
Refer to the exhibit After recent configuration changes to a customer's network, a network engineer notices that R2 cannot communicate with R3 Both FastEthemet interfaces on R2 and R3 are up and configured with the correct IP addresses MD5 password configured en R2 and R3 match with no issues What is the minimum change the engineer must make to enable R2 and R3 to communicate and fix the problem?

- A. Configure interface F0/0 on RI and R2 to be in area O.

- B. Configure a loopback interface on R2 and assign it to area 0.
- C. Define area 2 as a NSSA on R2 and R3
- D. Configure virtual links between RI and R3.

Answer: B

NEW QUESTION # 179
Refer to the exhibit.



Refer to the exhibit The engineering team noticed route disruptions when DSL subscriber 172.16.20.10 goes offline. In this service provider environment: The OSPF backbone area is configured to advertise loopback prefixes The PE routers are running BGP-IPv4 address family in a BGP-free core topology. The DSL subscriber IP subnet 172.16.20.10/32 is redistributed in BGP on PE1 Which configuration on PE1 resolves the issue?

- PE1(config)# router bgp 100
  PE1(config-router)# network 172.16.20.0 255.255.255.255
  PE1(Config)# Router ospf 100
  PE1(Config-router)# redistribute bgp 100
- PE1(Config)# ip route 172.16.20.0 255.255.255.0 Null0
  PE1(Config)# Router BGP 100
  PE1(Config-router)# redistribute static
- PE1(Config)# ip route 172.16.20.0 255.255.255.255 Null0
  PE1(Config)# Router ospf 100
  PE1(Config-router)# redistribute static
- PE1(config)# router ospf 100
  PE1(config-router)# network 172.16.20.0 0.0.0.255 area 0
  PE1(Config)# Router BGP 100
  PE1(Config-router)# redistribute ospf 100

- A. Option C
- B. Option D
- C. Option B
- D. Option A

Answer: C

NEW QUESTION # 180
Refer to the exhibit. The service provider provides IPv6 connectivity to large enterprise customers with offices spanning several

geographic regions SRv6 is running in the service provider core.
The service provider just signed a contract with a new customer that is still running IPv4. The new customer needs connectivity between its two sites connected via CE1 and CE2 and the internet.
Which action must the service provider s network-engineering team take to provide connectivity across the SRv6 data plane?

- A. Implement an NTP master and sync the timers on the P and PE routers
- B. Redistribute the IPv4 routes from CE2 and CE1 on their respective PEs
- C. Translate the IPv4 addresses to an IPv6 address on each CE
- D. Encapsulate IPv4 traffic from the CEs on their respective PEs through a TE path between PE1 and PE2.

Answer: D

NEW QUESTION # 181
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