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Cisco 300-510 exam tests the candidates' knowledge and skills in implementing advanced routing technologies, such as Border Gateway Protocol (BGP), Multiprotocol Label Switching (MPLS), and Quality of Service (QoS) in a service provider environment. 300-510 Exam also covers topics such as network security, network virtualization, and network automation.

>> Pdf 300-510 Files <<

Quiz 2025 300-510: The Best Pdf Implementing Cisco Service Provider Advanced Routing Solutions Files

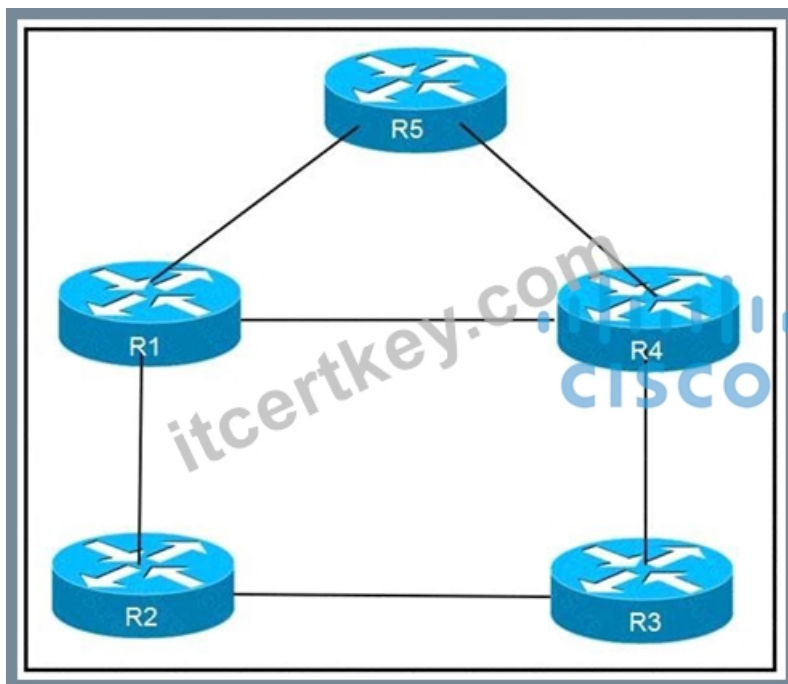
Just as I have just mentioned, almost all of our customers have passed the exam as well as getting the related certification easily with the help of our 300-510 Exam Torrent, we strongly believe that it is impossible for you to be the exception. So choosing our Implementing Cisco Service Provider Advanced Routing Solutions exam question actually means that you will have more opportunities to get promotion in the near future, at the same time, needless to say that you will get a raise in pay accompanied with the promotion. What's more, when you have shown your talent with Implementing Cisco Service Provider Advanced Routing Solutions certification in relating field, naturally, you will have the chance to enlarge your friends circle with a lot of distinguished persons who may influence you career life profoundly.

Cisco 300-510 is an advanced level certification exam designed for professionals who want to enhance their skills and knowledge in the field of service provider routing solutions. 300-510 exam is designed to test the abilities of candidates to configure, troubleshoot, and manage advanced routing technologies that are used in a service provider environment. Implementing Cisco Service Provider Advanced Routing Solutions certification validates the skills and knowledge necessary for the implementation of advanced routing technologies and solutions.

Cisco Implementing Cisco Service Provider Advanced Routing Solutions Sample Questions (Q31-Q36):

NEW QUESTION # 31

Refer to the exhibit.



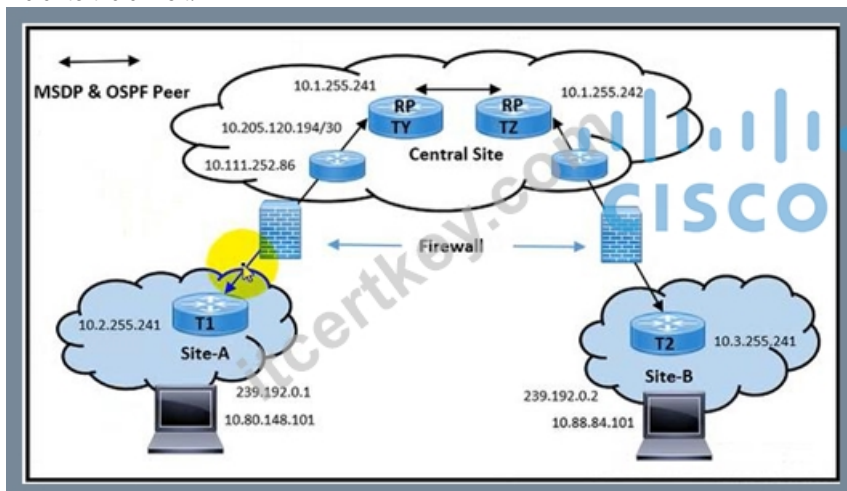
An engineer is addressing an IS-IS design issue which is running within the topology. All links are running on FastEthernet, except the link between R5 and R4, which is Gigabit Ethernet. Which statement about the design is true?

- A. R1 prefer to use R5 as the next hop to reach R4
- B. R5 prefers to use R4 as the next hop for all routes
- C. All links have equal cost if the default metric is used
- D. R4 prefer to reach R5 using R1 as the next hop

Answer: C

NEW QUESTION # 32

Refer to the exhibit.



```

T2# show ip msdp sa-cache rejected-SA det read-only <snip>
86854209.328, (10.80.148.101, 239.192.0.1), RP: 10.2.255.241, Peer:
10.1.255.241, Reason: rpf-fail -> learned from central site RT1 but not
accepted (originated from site A RT1)
86854209.328, (10.88.84.101, 239.192.0.2), RP: 10.3.255.241, Peer:
10.1.255.241, Reason: rpf-fail -> learned from central site RT1 but not
accepted (originated from site B RT1)

T2# show ip rpf 10.1.255.241
RPF information for ? (10.1.255.241)
RPF interface: Vlan10
RPF neighbor: ? (10.111.254.9)
RPF route/mask: 10.1.255.241/32
RPF type: unicast (ospf 15)
Doing distance-preferred lookups across tables
RPF topology: ipv4 multicast base, originated from ipv4 unicast base

T2# show ip route 10.1.255.241
Routing Table: CENT1
Routing entry for 10.1.255.241/32
Known via "ospf 15", distance 110, metric 3, type intra area
Last update from 10.111.254.9 on Vlan10, 1d22h ago
Routing Descriptor Blocks:
* 10.111.254.9, from 10.205.0.197, 1d22h ago, via Vlan10
Route metric is 3, traffic share count is 1

```

```

TY# sh ip msdp sa-cache
MSDP Source-Active Cache - 2 entries
(10.80.148.101, 239.192.0.1), RP 10.2.255.241, AS ?, 1d23h/00:05:42, Peer
10.2.255.241 -> learned from RT1 at site A (which is 10.2.255.241)
(10.88.84.101, 239.192.0.2), RP 10.3.255.241, AS ?, 1d21h/00:05:31, Peer
10.3.255.241 -> learned from RT1 at site B (which is 10.3.255.241)

TY# sh ip rpf 10.2.255.241
RPF information for ? (10.2.255.241)
RPF interface: Fo9/1.1035
RPF neighbor: ? (10.111.252.86)
RPF route/mask: 10.2.255.241/32
RPF type: unicast (ospf 15)
Doing distance-preferred lookups across tables
RPF topology: ipv4 multicast base, originated from ipv4 unicast base

TY# sh ip route 10.2.255.241
Routing Table: CLNT1
Routing entry for 10.2.255.241/32
Known via "ospf 15", distance 110, metric 150, type extern 2, forward
metric 2
Last update from 10.111.252.86 on FortyGigabitEthernet9/1.1035, 04:06:26
ago
Routing Descriptor Blocks:
* 10.111.252.86, from 10.205.120.195, 04:06:26 ago, via
FortyGigabitEthernet9/1.1035
Route metric is 150, traffic share count is 1

```

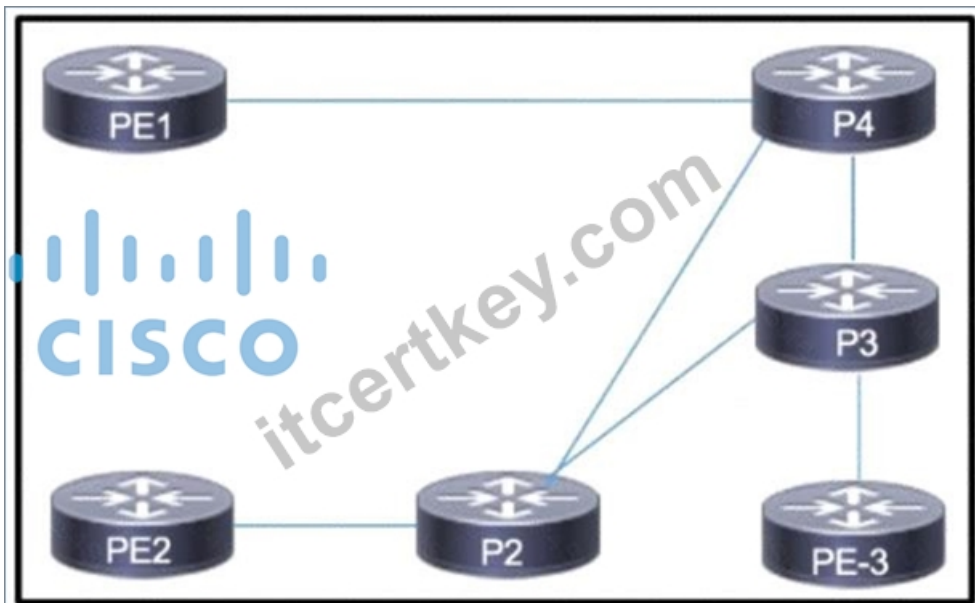
Refer to the exhibit. Multicast traffic destined from T1 and T2 routers to RP routers works well. A network engineer observes problems with multicast traffic flows between Site-A and Site-B. Site-A users fail to receive multicast stream on Site-B via RPTy site, while Site-B users fail to receive multicast stream on Site-A via RPTZ site. Which action must be implemented to resolve the issues?

- A. Establish MSDP peering with interface IP subnet.
- **B. Allow the OSPF and MSDP packets on the firewall.**
- C. Configure direct OSPF peering between Site-A and Site-B
- D. Configure Site-A and Site-B in 10.80.14804

Answer: B

NEW QUESTION # 33

Refer to the exhibit.



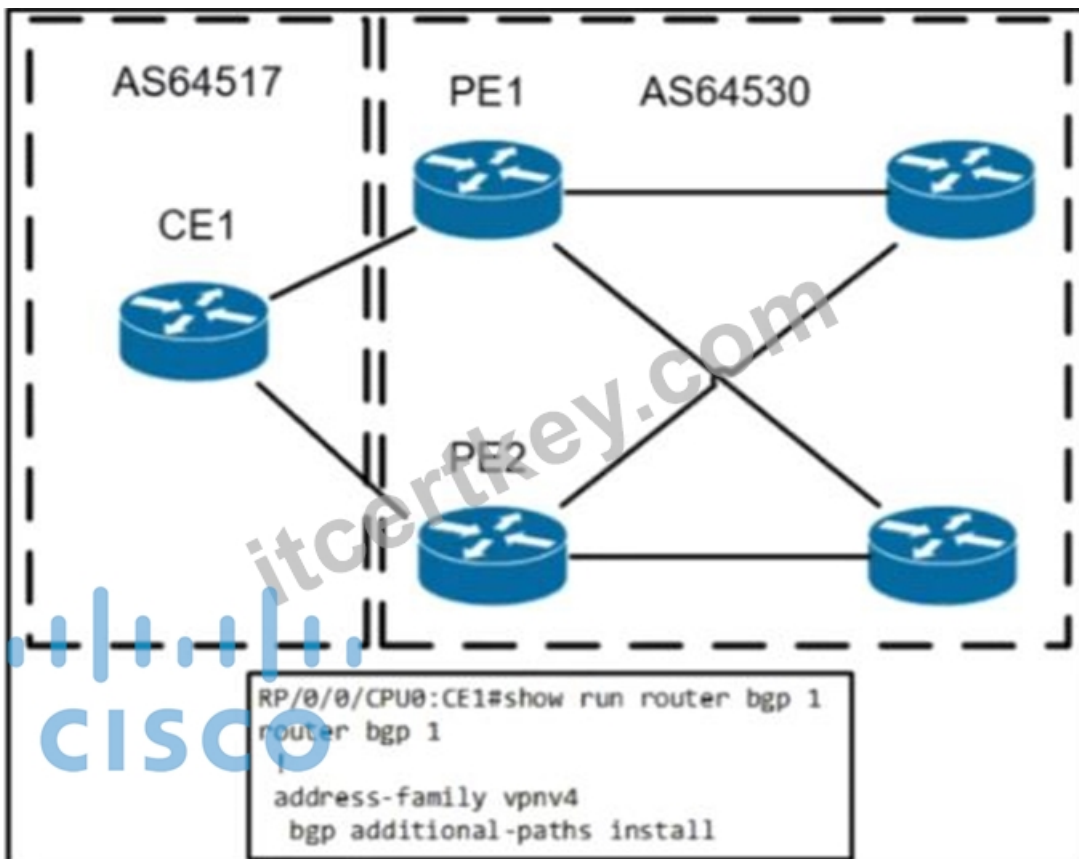
The service provider deployed segment routing in its core. P2 is connected to P3 and P4 via a point-to-multipoint link as shown. The service provider provides connectivity for a large enterprise with three main offices in different geographic regions. Each office is connected via one of the three PEs. The enterprise wants to implement multicast traffic across the service provider to stream mission-critical applications between sites. The applications will be sourced from a server connected to the network through PE2. Which action must the network-engineering team take so that multicast traffic will flow between the enterprise sites over the point-to-multipoint link?

- A. Implement MLDP to allow multicast traffic to flow within the single AS
- B. Implement PIM-DM to flood multicast traffic from the enterprise into the service provider core
- C. Implement RSVP to reserve bandwidth on the link between PE2 and P2
- D. Implement SR Tree-SID to build a multicast replication tree over the point-to-multipoint link

Answer: D

NEW QUESTION # 34

Refer to the exhibit.



A network operators configuring BGP PIC on CE1 on already established neighborships with PE1 and PE2 inside the fully converged MPLS network Which element needs to be implemented to make this feature function effectively?

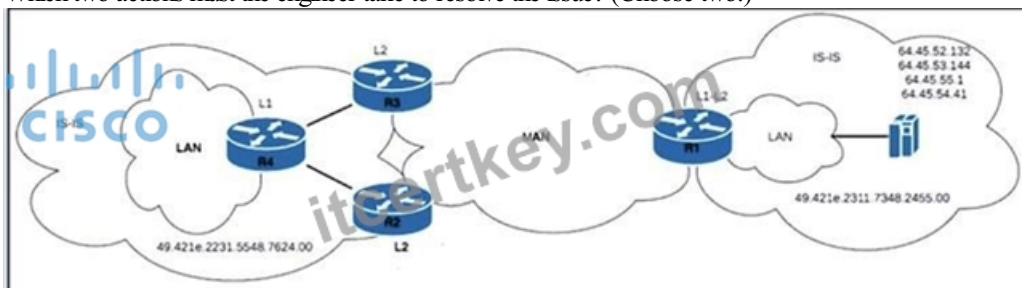
- A. community of 1 10 must be used to denote the PIC feature set to the routing protocol
- **B. Bidirectional Forwarding Detection must be applied to the upstream facing BGP interfaces.**
- C. The operator must ensure that all prefixes have the same next-hop from PE1 and PE2 for BGP PICA reserved BGP
- D. BGP import export policies must be applied on all devices for the routes needing BGP for PIC

Answer: B

NEW QUESTION # 35

Refer to the exhibit. Company_A hosts multiple online VoD platforms. R3 is connected to MAN with a 100 Mbps link. R2 has only a 10 Mbps connection, but it has the lowest number of hops to R1. A network engineer must allow users in area 49.421 e.2331.5548.7624.00 to access online library resources, using the best possible route toward the online platforms to guarantee the highest connection quality. After the engineer implements the requirements, they notice an excessive number of routes in the R4 routing table and high memory consumption on the router.

Which two actions must the engineer take to resolve the issue? (Choose two.)



- A. Create a route map on R3 and redistribute all routes from L2 into L1.
- B. Create an access list on R2 and redistribute all routes from L1 into L2.
- **C. Configure summary-address level-2 64.45.52.0 0.0.3.255 on R2.**
- **D. Configure summary-address 64.45.52.0 255.255.252.0 level-1 on R3.**
- E. Configure summary-address area level-1-2 64.45.52.0 255.255.252.0 on R3.

Answer: C,D

Explanation:

Configure summary-address level-2 64.45.52.0 0.0.3.255 on R2:

This command summarizes the routes at Level-2 on R2. It helps to reduce the number of specific routes advertised toward Level-2 routers, which in turn optimizes R4's routing table and memory consumption.

Configure summary-address 64.45.52.0 255.255.252.0 level-1 on R3:

This creates a summary route for Level-1, consolidating routes that are more granular into a single prefix.

This reduces route advertisements in the Level-1 domain and minimizes routing table size.

The excessive routes and memory consumption issue is addressed through route summarization.

Summarizing routes:

- Reduces the number of routes that need to be stored.
- Optimizes router performance and memory usage.
- Ensures only essential routes are advertised into the routing domains (Level-1 and Level-2).

NEW QUESTION # 36

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