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300-510
Implementing Cisco
Service Provider
Advanced
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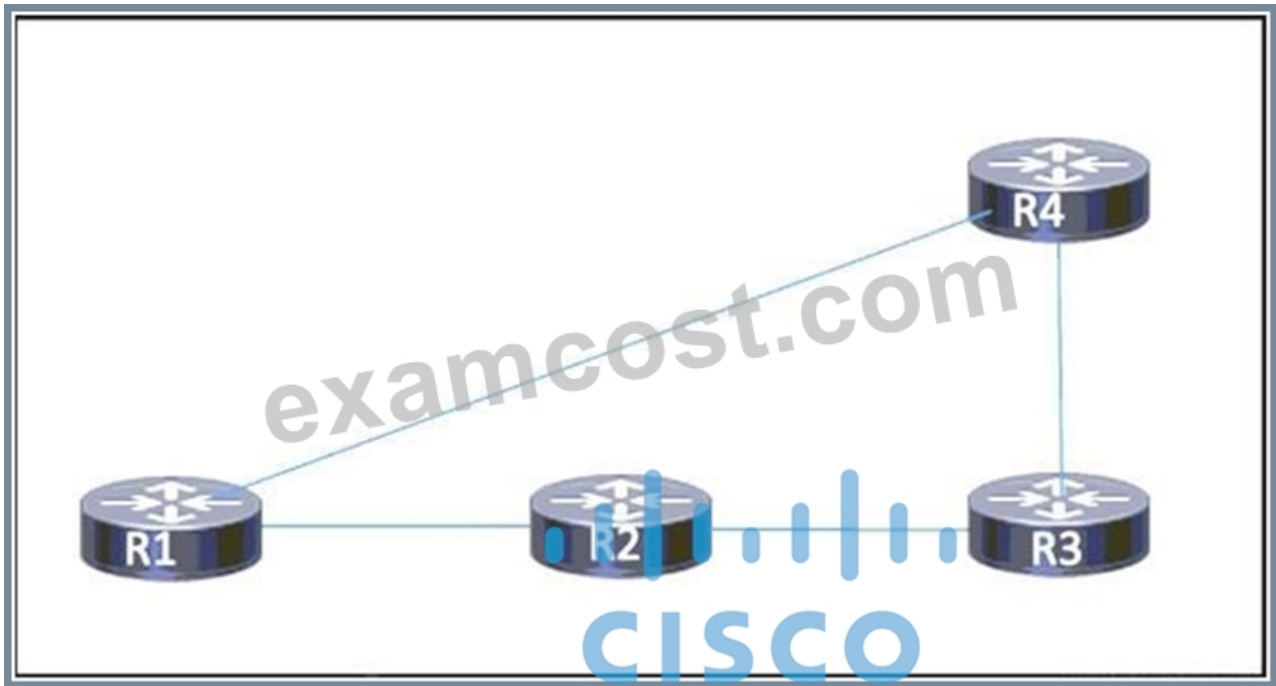
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The Implementing Cisco Service Provider Advanced Routing Solutions 300-510 certification offers a great opportunity for beginners and professionals to demonstrate their skills and abilities to perform a certain task. For the complete, comprehensive, for Implementing Cisco Service Provider Advanced Routing Solutions 300-510 Exam Preparation you can get assistance from Implementing Cisco Service Provider Advanced Routing Solutions Exam Questions.

Cisco Implementing Cisco Service Provider Advanced Routing Solutions Sample Questions (Q172-Q177):

NEW QUESTION # 172

Refer to the exhibit. All routers in the network are in area 12, with IS-IS running in the default configuration as the IGP. To avoid congestion on the link from R1 to R2, the network architect planned for traffic from R1 to R3 to pass through R4. To meet the requirement, a network engineer set the metric from R1 to R4 to a cost of 15, but the traffic is still travelling through R2. Which action must the engineer take to resolve the issue?



- A. Change the default metric to 20 on all links and disable wide area metrics.
- B. Change the IS-IS administrative distance to 10.
- C. Change the cost on the link from R1 to R2 to 11 and enable narrow metrics.
- D. Change the cost on the link from R1 to R4 to 5.

Answer: C

Explanation:

IS-IS uses default wide metrics to calculate the shortest path, and costs are additive across links.

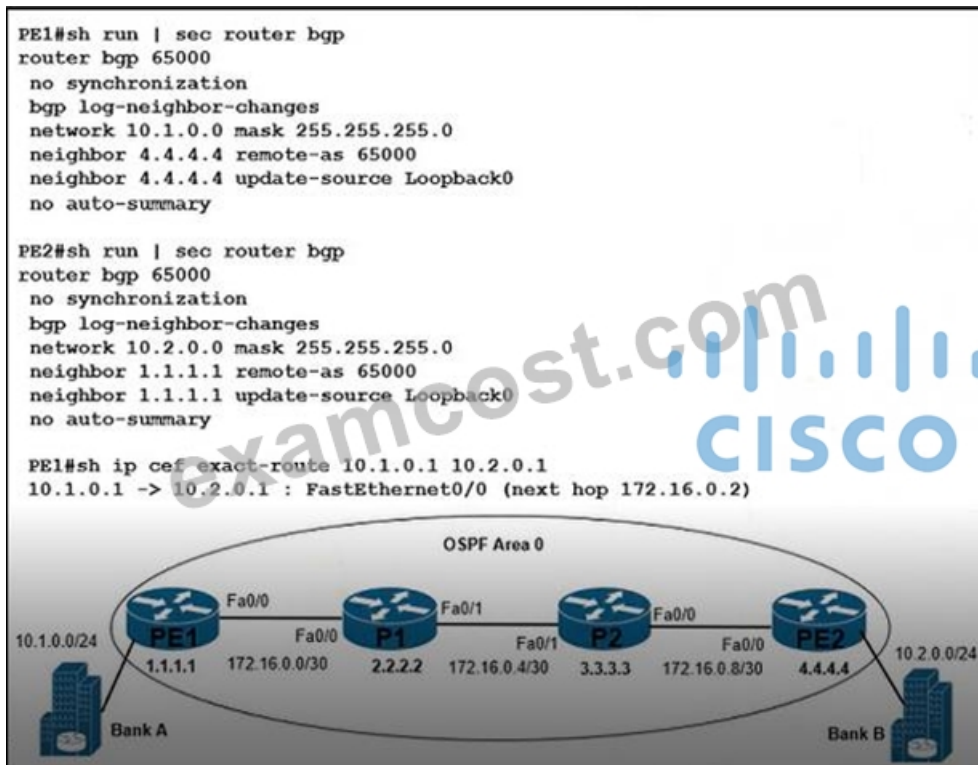
By default, the IS-IS metric is based on the cost assigned to each link.

The link from R1 to R4 was configured with a metric of 15, but traffic is still passing through R1 - R2 - R3. This indicates that the cost of R1 - R2 - R3 is still lower than the R1 - R4 - R3 path.

Increasing the cost on the link R1 - R2 to 11, which makes it less preferred. Enabling narrow metrics ensures that IS-IS calculates costs using a smaller range of values (1-63), which is often simpler for controlling traffic flows.

NEW QUESTION # 173

Refer to the exhibit.



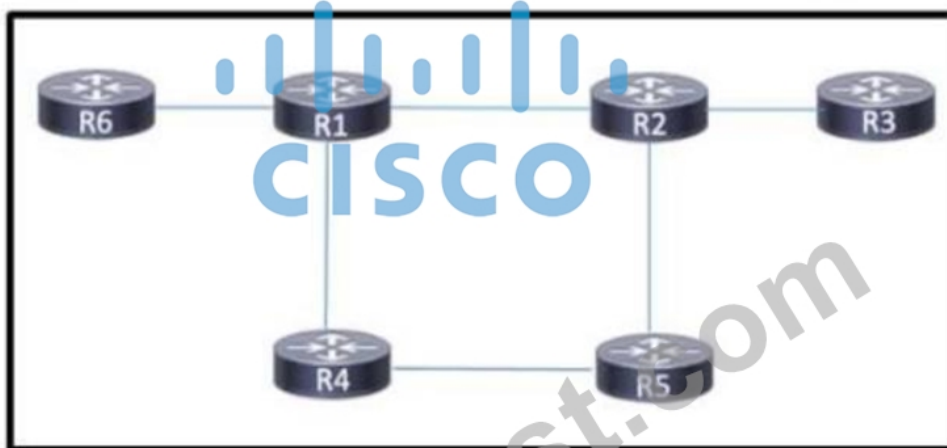
Refer to the exhibit. Network connectivity between bank A and bank B has been lost. Users at bank A and bank B are able to successfully reach their directly connected PE routers. All routers in OSPF area 0 are correctly advertising and learning routing updates. Which action resolves the issue?

- A. Enable next-hop-self under the iBGP peering configuration on routers PE1 and PE2
- B. Configure the P routers to redistribute BGP routes within OSPF area 0.
- C. Configure MPLS with an end-to-end label-switched path on each router.
- D. Configure router P1 to advertise the IP prefix of PE1.

Answer: C

NEW QUESTION # 174

Refer to the exhibit. IS-IS runs in the network and all routers are in the same area R1. R1 statically routes to distribute traffic with R6 and the networking team has redistributed the static routes on R1 into IS-IS. Hosts on R3 need access to servers connected to R6. A tag has been applied to the routes to manipulate routes along the path but routers running IS-IS are still unable to reach the redistributed routes. Which action must the team take to resolve the issue?



R1

```

router isis
  net 48.0000.0000.0001.00
  redistribute static ip route-map set-tag

route-map set-tag permit 5
  set tag 10
  
```

- A. Configure R3 with a default route that uses R2 as the next hop
- B. Configure the route map with an additional route-map set-tag permit 10 sequence
- **C. Configure the IS-IS routers with metric-style wide**
- D. Configure the routers as Level 1/Level 2 routers

Answer: C

Explanation:

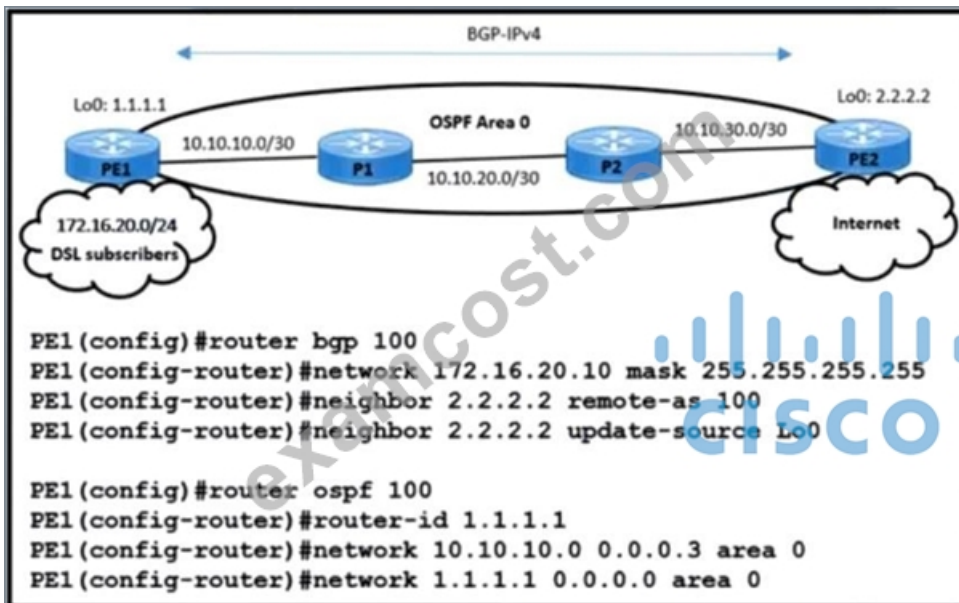
By default IS-IS on Cisco uses the "narrow" metric style, which cannot carry the external-route TLV (and its route-tag) needed when you redistribute static routes. Enabling metric-style wide causes the IS-IS PDUs to include the extended TLV space for externals (and tags), so that the redistributed prefixes actually propagate throughout the IS-IS domain.

NEW QUESTION # 175

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)# ip route 172.16.20.0 255.255.255.0 Null0
PE1(Config)# Router BGP 100
PE1(Config-router)# redistribute static

```

- A.
- B.

```

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 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

```

- C.
- D.

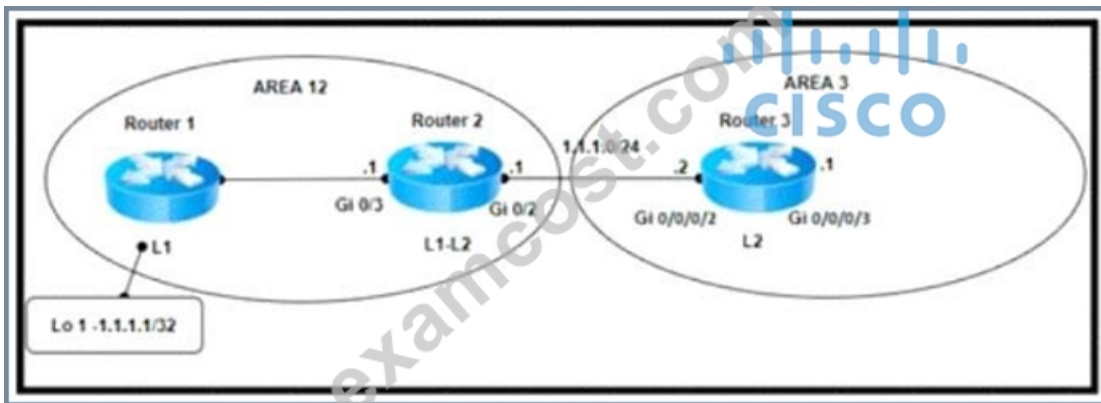
```

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

```

Answer: A

NEW QUESTION # 176



Refer to the exhibit. A network engineer configured three new PE routers to expand the network. The new routers run in the IS-IS routing protocol and reside in the data center in the same exchange as the existing routers. However, the network is now experiencing suboptimal routing. The Layer 2 configuration and VLANs are configured correctly to provide segregation between networks, but the Level 1 routes are not being converted to Level 2 routes. Which action resolves the issue?

- A. On Router 1, summarize internal routes between areas.
- **B. On Router 2, summarize internal routes between areas.**
- C. On Router 2, redistribute the routes into IGP.
- D. On Router 1, redistribute the routes into IGP.

Answer: B

NEW QUESTION # 177

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