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2023



Exam: 300-510

CCNP SPRI: Implementing Cisco Service Provider Advanced Routing Solutions

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Cisco 300-510 certification exam will test the candidate's ability to design, deploy, and troubleshoot complex routing systems. Exam takers must be proficient in creating scalable systems for traffic management, quality of service (QoS), routing protocols, and VPNs. By obtaining this certification, candidates will prove their expertise in implementing and managing advanced routing solutions.

Cisco 300-510 exam is designed for IT professionals who specialize in service provider networking solutions. Implementing Cisco Service Provider Advanced Routing Solutions certification exam focuses on advanced routing solutions and covers topics such as implementing routing protocols, implementing MPLS VPNs, and implementing multicast protocols. By passing 300-510 Exam, candidates will demonstrate their knowledge and skills in implementing complex routing solutions in a service provider environment.

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Who should take the Implementing Cisco Service Provider Advanced Routing Solutions (300-510 SPRI) Exam

People who wish to explore the power of the dynamic culture of the Cisco Learning Network to jump-start their certification and lifelong learning goals should take this exam. Those who want to get useful tools for IT training for all Cisco certifications should also get this certification. People with prior knowledge of integrating VPN services, including Layer 2, Layer 3, and IPv6, from the service provider are highly recommended to take this exam and get themselves certified from Cisco.

List of the target audience for this exam:

- Network supervisors
- Network designers
- Network architects
- Network managers
- Channel partners

Cisco Implementing Cisco Service Provider Advanced Routing Solutions Sample Questions (Q246-Q251):

NEW QUESTION # 246

Router 1:

```
mpls traffic-eng tunnels
router ospf 2
  mpls traffic-eng router-id loopback 0
  mpls traffic-eng area 0
interface gigabitethernet0/1
  ip rsvp bandwidth
interface tunnel 1
  ip unnumbered loopback 0
  tunnel destination 192.168.4.1
  tunnel mode mpls traffic-eng
  tunnel mpls traffic-eng bandwidth 150
  tunnel mpls traffic-eng autoroute announce
```

Router 2:

```
mpls traffic-eng tunnels
router ospf 2
  mpls traffic-eng router-id loopback 0
  mpls traffic-eng area 0
interface gigabitethernet0/1
  mpls traffic-eng tunnels
  ip rsvp bandwidth
```

Refer to the exhibit. Router 1 has attempted to establish a Cisco MPLS TE tunnel to router 2, but the tunnel has failed. Which statement about this configuration is true?

- A. Router 1 must define an explicit path to router 2
- B. Router 1 and router 2 must define the RSVP bandwidth reserved on the physical interfaces

- C. Router 1 must have Cisco MPLS TE enabled on interface gigabitethernet0/1
- D. Router 2 must have a tunnel interface created with router 1 as the destination

Answer: C

NEW QUESTION # 247

Refer to the exhibit. There is a connectivity issue between Customer-1 and Customer-2 File servers between the customers cannot send critical data. R3 routes are missing from the routing table on the Customer-1 router. All interfaces on Customer-1 are up. Which configuration must be applied to router R2 to correct the problem?

```
R2#config
route-policy nhs-ibgp-3107
  set next-hop 2.2.2.2
route-policy connected-into-ospf2
if destination in (2.2.2.0/32) then
  pass
endif
end-policy
!
router ospf 1
router-id 2.2.2.2
area 0
interface Loopback0
!
interface GigabitEthernet0/0/0/1
  network point-to-point
!
router ospf 2
  redistribute connected route-policy connected-into-ospf2
area 0
  interface GigabitEthernet0/0/0/0
    network point-to-point
!
```

```
router bgp 1
  1bgp policy out enforce-modifications
  address-family ipv4 unicast
  !
  neighbor 1.1.1.1
    remote-as 1
    update-source Loopback0
    address-family ipv4 labeled-unicast
    route-reflector-client
    route-policy nhs-ibgp-3107 out
    next-hop-self
  !
  neighbor 1.1.1.3
    remote-as 1
    update-source Loopback0
    address-family ipv4 labeled-unicast
    route-policy nhs-ibgp-3107 out
    next-hop-self
  !
```

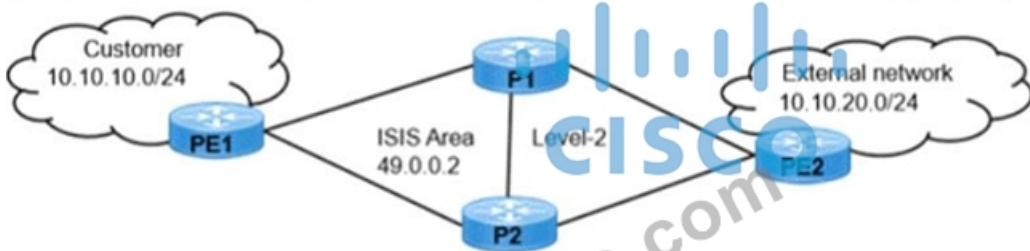
```
router bgp 1
  address-family vpnv4 unicast
  allocate-label all
!
router bgp 1
  vrf one
  rd 1:1
  address-family ipv4 unicast
  allocate-label all
!
router bgp 1
  neighbor
  remote-as 1
  update-source Loopback0
  address-family ipv4 labeled-unicast
  allocate-label all
!
router bgp 1
  address-family ipv4 unicast
  allocate-label all
```

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

Answer: A

NEW QUESTION # 248

Refer to the exhibit.



```
PE1# show bgp vpng4 unicast labels
BGP router identifier 1.1.1.1 local AS number 100
Route Distinguisher: 1.1.1.1 (default for vrf MSSK)
*-> 10.10.10.0/24 172.16.10.2 nolabel 16100
*->i10.10.20.0/24 2.2.2.2 16200 nolabel
```

```
CE1#traceroute 10.10.8.8 source lo1 numeric
VRF info: (vrf in name/id, vrf out name/id)
1 172.16.17.1 12 msec 12 msec 8 msec
2 192.168.13.3 [MPLS: Labels 16304/16200 Exp 0]
3 192.168.36.6 [MPLS: Labels 16601/16200 Exp 0]
4 192.168.26.2 [MPLS: Label 16200 Exp 0]
5 172.16.28.8 20 msec * 20 msec
```

A network engineer must enable connections from customers on PE1 to the external network via the SR- MPLS forwarding plane with a range of 8000 SID. In the current environment

- The MPLS forwarding tables on PE1 and PE2 are populated with LDP-originated LDP labels.
- The current ranges are 16100 – 16199 on PE1 and 16200 – 16299 on PE2.

Which configuration must the engineer apply?

- PE1(config)# router isis SR
PE1(config-isis)# segment-routing global-block 1042000 1050000
PE1(config-isis)# segment-routing mpls sr-prefer
- PE1(config)# router isis SR
PE1(config-isis)# segment-routing global-block 90000 95000
PE1(config-isis)# address-family ipv4 unicast
PE1(config-isis-af)# segment-routing mpls sr-prefer
- PE1(config)# router isis SR
PE1(config-isis)# segment-routing global-block 3000 11000
PE1(config-isis)# segment-routing mpls sr-prefer
- PE1(config)# router isis SR
PE1(config-isis)# segment-routing global-block 16000 24000
PE1(config-isis)# address-family ipv4 unicast
PE1(config-isis-af)# segment-routing mpls sr-prefer

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

Answer: A

NEW QUESTION # 249

```

R1#show route-map
route-map filtering, permit, sequence 10
Match clauses:
  ip address (access-lists): 1
  Set clauses:
    Policy routing matches: 0 packets, 0 bytes
route-map filtering, deny, sequence 20
Match clauses:
  ip address (access-lists): 2
  Set clauses:
    Policy routing matches: 0 packets, 0 bytes
route-map filtering, permit, sequence 30
Match clauses:
  Set clauses:
    Policy routing matches: 0 packets, 0 bytes

R1#show access-lists
Standard IP access list 1
  10 permit 10.0.0.0, wildcard bits 0.0.0.255 (8 matches)
Standard IP access list 2
  10 deny  10.0.1.0, wildcard bits 0.0.0.255 (1 match)

```

Refer to the exhibit A network engineer configured the redistribute connected subnets route-map filtering command on R1 to redistribute connected interfaces to the OSPF process. The engineer also wants to filter out IP address 10.0.1.0/24, but the prefix still appears in the routing tables of the other routers on the network.

Which action corrects the problem?

- A. Change the deny statement in access list 2 to permit
- B. Remove the subnets keyword from the redistribute connected subnets route-map filtering command.
- C. Remove route-map sequence 30.
- D. Add a set statement to route-map sequence 20.

Answer: A

NEW QUESTION # 250

In a PIM-SM environment, which mechanism determines the traffic that a receiver receives?

- A. The receiver explicitly requests its desired traffic from the RP on the shared tree.
- B. The receiver explicitly requests traffic from a single source, which responds by forwarding all traffic.
- C. The receiver explicitly requests traffic from each desired source, which responds by sending all traffic.
- D. The RP on the shared tree floods traffic out of all PIM configured interfaces.

Answer: A

Explanation:

A shared tree is built first between receiver and the RP. The receiver is then able to switch to a Source tree as needed.

NEW QUESTION # 251

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