

Free PDF Quiz 2026 Cisco Efficient 300-510: Implementing Cisco Service Provider Advanced Routing Solutions Test Testking



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Cisco Implementing Cisco Service Provider Advanced Routing Solutions Sample Questions (Q86-Q91):

NEW QUESTION # 86

What are three requirements for a static IPv6-in-IPv4 tunnel? (Choose three.)

- A. A dynamic IPv6 address must be configured.
- **B. A static IPv6 address must be configured.**
- **C. Each tunnel endpoint must support IPv4 and IPv6.**
- D. Cisco Express Forwarding must be enabled.
- **E. A static IPv4 address must be configured.**
- F. A dynamic IPv4 address must be configured.

Answer: B,C,E

NEW QUESTION # 87

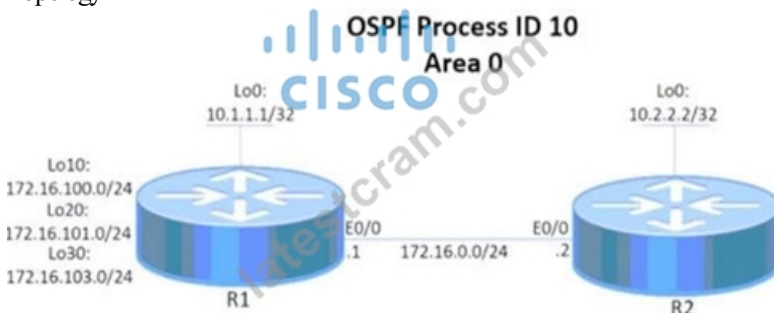
SIMULATION

Guidelines

This is a lab item in which tasks will be performed on virtual devices.

- Refer to the Tasks tab to view the tasks for this lab item.
- Refer to the Topology tab to access the device console(s) and perform the tasks.
- Console access is available for all required devices by clicking the device icon or using the tab(s) above the console window.
- All necessary preconfigurations have been applied.
- Do not change the enable password or hostname for any device.
- Save your configurations to NVRAM before moving to the next item.
- Click Next at the bottom of the screen to submit this lab and move to the next question.
- When Next is clicked, the lab closes and cannot be reopened.

Topology



Tasks

Configure and verify an OSPF neighbor adjacency between R1 and R2 in OSPF area 0 according to the topology to achieve these goals:

1. R1 pings the Loopback0 interface of R2. Use interface-level configuration to complete this task.
2. R2 pings the Loopback0 interface of R1. Use interface-level configuration to complete this task.
3. R2 receives a single summary route 172.16.100.0/22 for networks 172.16.100.0/24, 172.16.101.0/24, and 172.16.103.0/24.

R1

R2

```
R1>en
R1#sh run
Building configuration...

Current configuration : 1302 bytes
!
version 15.8
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname R1
!
boot-start-marker
boot-end-marker
!
!
!
no aaa new-model
!
!
!
clock timezone PST -8 0
mmi polling-interval 60
no mmi auto-configure
no mmi pvc
--More--
```

```
!
interface Loopback0
 ip address 10.1.1.1 255.255.255.255
!
interface Loopback10
 ip address 172.16.100.1 255.255.255.0
 ip ospf 10 area 1
!
interface Loopback20
 ip address 172.16.101.1 255.255.255.0
 ip ospf 10 area 1
!
interface Loopback30
 ip address 172.16.103.1 255.255.255.0
 ip ospf 10 area 1
!
```

R1 R2

```
interface Loopback10
ip address 172.16.100.1 255.255.255.0
ip ospf 10 area 1
!
interface Loopback20
ip address 172.16.101.1 255.255.255.0
ip ospf 10 area 1
!
interface Loopback30
ip address 172.16.103.1 255.255.255.0
ip ospf 10 area 1
!
interface Ethernet0/0
ip address 172.16.0.1 255.255.255.0
ip ospf 10 area 0
duplex auto
!
interface Ethernet0/1
no ip address
shutdown
duplex auto
!
interface Ethernet0/2
no ip address
shutdown
duplex auto
!
interface Ethernet0/3
no ip address
shutdown
duplex auto
!
router ospf 10
router-id 10.1.1.1
!
```

R1

R2

```
R2>
R2>
R2>
R2>
R2>en
R2#sh run
Building configuration...
```



```
Current configuration : 1059 bytes
!
```

```
version 15.8
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
```

```
!
```

```
hostname R2
```

```
!
```

```
boot-start-marker
```

```
boot-end-marker
```

```
!
```

```
!
```

```
!
```

```
no aaa new-model
```

```
!
```

```
!
```

```
!
```

```
clock timezone PST -8 0
```

```
mmi polling-interval 60
```

```
no mmi auto-configure
```

```
no mmi pvc
```

```
--More-- █
```

```
interface Loopback0
 ip address 10.2.2.2 255.255.255.255
```

```
!
```

```
interface Ethernet0/0
 ip address 172.16.0.2 255.255.255.0
 ip ospf 10 area 0
 duplex auto
```

```
!
```

```
interface Ethernet0/1
 no ip address
 shutdown
 duplex auto
```

```
!
```

```
interface Ethernet0/2
 no ip address
```



R1

R2



```
interface Ethernet0/0
 ip address 172.16.0.2 255.255.255.0
 ip ospf 10 area 0
 duplex auto
!
interface Ethernet0/1
 no ip address
 shutdown
 duplex auto
!
interface Ethernet0/2
 no ip address
 shutdown
 duplex auto
!
interface Ethernet0/3
 no ip address
 shutdown
 duplex auto
!
router ospf 10
 router-id 10.2.2.2
!
ip forward-protocol nd
!
!
no ip http server
no ip http secure-server
!
ipv6 ioam timestamp
!
!
!
control-plane
!
```

Answer:

Explanation:

R1

R2

```
R1>en
R1#config t
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)#int lo
R1(config)#int lo0
R1(config-if)#ip ospf 10 area 0
R1(config-if)#exit
R1(config)#int lo 10
R1(config-if)#ip ospf nei
R1(config-if)#ip ospf net
R1(config-if)#ip ospf network point-to-po
R1(config-if)#ip ospf network point-to-point
R1(config-if)#int lo 20
R1(config-if)#ip ospf net po
R1(config-if)#ip ospf net point-to-po
R1(config-if)#ip ospf net point-to-point
R1(config-if)#exit
R1(config)#int lo
R1(config)#int lo30
R1(config-if)#ip ospf netwo poi
R1(config-if)#ip ospf netwo point-to-po
R1(config-if)#ip ospf netwo point-to-point
R1(config-if)#
R1(config-if)#exit
R1(config)#int et
R1(config)#int ethernet 0/0
R1(config-if)#ip ospf 10 area 0
R1(config-if)#exit
R1(config)#router ospf 10
R1(config-router)#area 1 rang 172.16.100.0 255.255.252.0
R1(config-router)#exit
R1(config)#
R1(config)#^Z
R1#
R1#
R1#copy r
*Aug 26 11:44:29.078: %SYS-5-CONFIG_I: Configured from console by
console
R1#copy run start
Destination filename [startup-config]?
Building configuration...
[OK]
R1#
R1#
```

R1

R2



```

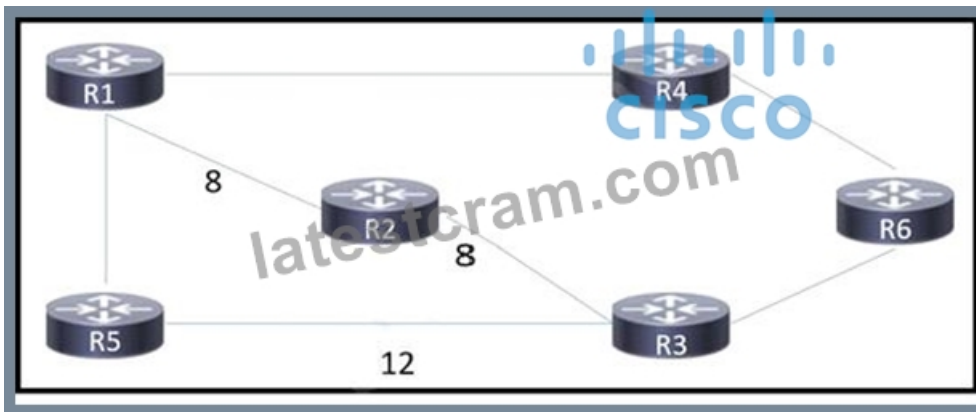
2>
2>
2>en
2#config t
Enter configuration commands, one per line. End with CNTL/Z.
2(config)#int lo
2(config)#int lo0
2(config-if)#ip ospf 10 area 0
2(config-if)#^Z
2#
2#
2#c
Aug 26 11:44:48.122: %SYS-5-CONFIG_I: Configured from console by
console
2#copy run start
2#copy run startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
2#
2#sh ip route-ospf
Codes: L - local, 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 ty
e 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, H - NHRP, I
- LISP
        a - application route
        + - replicated route, % - next hop override, p - overrides
from PfR

Gateway of last resort is not set

```

NEW QUESTION # 88

Refer to the exhibit.



A network engineer configured routers R1 and R5 to run in IS-IS Level 1 mode and router R6 to run in IS-IS Level 2 mode. All other routers are running as Level 1 / Level 2 routers. An engineer expects traffic from R1 to R6 to pass via R2, but IS-IS routing has calculated the best path via R4. Which action corrects the problem?

- A. Configure all routers as Level 1 / Level 2 routers.
- **B. Change the link metric for the link from router R1 to router R2 to 1.**
- C. Configure all routers as Level 1 routers.
- D. Remove the link metric for the link from router R1 to router R2.

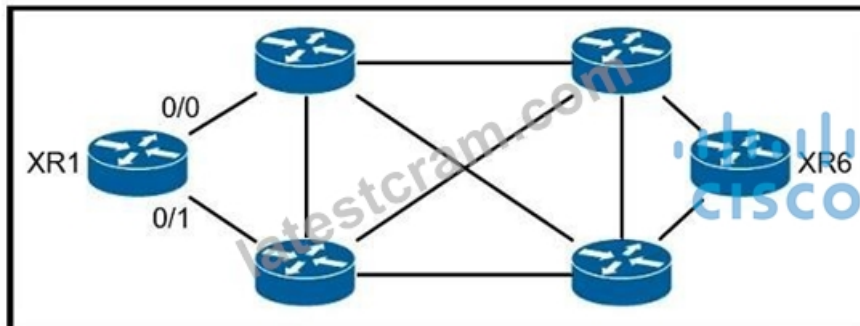
Answer: B

Explanation:

The default link metric for IS-IS is 10, so changing the link from R1 to R2 to 1 will change the overall metric to R6 to 9 (8+1).

NEW QUESTION # 89

Refer to the exhibits. All links inside the network are configured at a default cost of one inside the fully converged OSPF domain. Given the configuration from XR1, which interface does traffic from XR1 that is destined to the loopback interface of XR6 select for the exiting interface?



```

RP/0/0/CPU0:XR1#show run router ospf
router ospf 1
 log adjacency changes
 segment-routing mpls
 area 0
  mpls traffic-eng
  interface Loopback0
   passive enable
   prefix-sid index 1
 !
 interface GigabitEthernet0/0
  cost 2
  fast-reroute per-prefix
  fast-reroute per-prefix ti-lfa enable
  fast-reroute per-prefix tiebreaker node-protecting index 50
 !
 interface GigabitEthernet0/1
  cost 1
  fast-reroute per-prefix
  fast-reroute per-prefix ti-lfa enable
  fast-reroute per-prefix tiebreaker node-protecting index 100
 !
 !
 mpls traffic-eng router-id Loopback0
 !

```

- A. Interface GigabitEthernet 0/0. The tie breaker of the node index priority is lower and trumps the path cost.
- B. Interface GigabitEthernet 0/0. The tie breaker of the path cost being lower. The node index priority does not impact this selection process.
- C. Interface GigabitEthernet 0/1. The tie breaker of the node index priority is lower and trumps the path cost.
- D. Interface GigabitEthernet 0/1. The tie breaker of the path cost being lower. The node index priority does not impact this selection process.

Answer: A

NEW QUESTION # 90

Refer to the exhibit.

```

Cisco(config)# segment-routing
Cisco(config-sr)# traffic-eng
Cisco(config-sr-te)# policy P1
Cisco(config-sr-te-policy)# color 10 end ipv4 1.1.1.1

```

Refer to the exhibit. The Cisco router has a single uplink to the upstream network, which is critical to the business. The router is configured for traffic steering with the Autoroute mechanism configured to steer all OSPF and IS-IS prefixes over non-shortest paths and divert traffic for those prefixes to the SR-TE policy. However, the Autoroute Announce functionality for all prefixes is not working. Which additional command set must the engineer configure on the router to correct this issue?

- ☐ Cisco(config-sr)# traffic-eng
Cisco(config-sr-te)# policy P1
Cisco(config-sr-te-policy)# color 1 end-point ipv4 0.0.0.0
- ☐ Cisco(config-sr)# traffic-eng
Cisco(config-sr-te)# policy P1
Cisco(config-sr-te-policy)# color 1 end-point ipv4 255.255.255.255
- ☐ Cisco(config-sr)# traffic-eng
Cisco(config-sr-te)# policy P1
Cisco(config-sr-te-policy)# autoroute all
Cisco(config-sr-te-policy-path)# preference 10
- ☐ Cisco(config-sr)# traffic-eng
Cisco(config-sr-te)# policy P1
Cisco(config-sr-te-policy)# autoroute include all
Cisco(config-sr-te-policy)# candidate-paths
Cisco(config-sr-te-policy-path)# preference 100

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

Answer: B

NEW QUESTION # 91

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