

100% Pass Quiz 2025 300-510: Implementing Cisco Service Provider Advanced Routing Solutions Perfect Exam Questions Pdf

2023

Exam: 300-510
CCNP SPRI: Implementing Cisco Service Provider Advanced Routing Solutions
Study Guide with Practice Questions & Labs
First Edition



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Cisco 300-510 Exam is designed to verify the candidate's abilities to implement and manage service provider routing solutions. Implementing Cisco Service Provider Advanced Routing Solutions certification exam comprises of multiple-choice questions, simulations, and other types of questions that test the candidate's knowledge and expertise in various areas of service provider routing solutions.

Cisco Implementing Cisco Service Provider Advanced Routing Solutions Sample Questions (Q180-Q185):

NEW QUESTION # 180

After you change the IP address on an IOS XR router, you cannot ping the new address.
Which step did you forget to complete?

- A. **commit the configuration**
- B. save the running configuration
- C. roll back the configuration
- D. merge the configuration

Answer: A

NEW QUESTION # 181

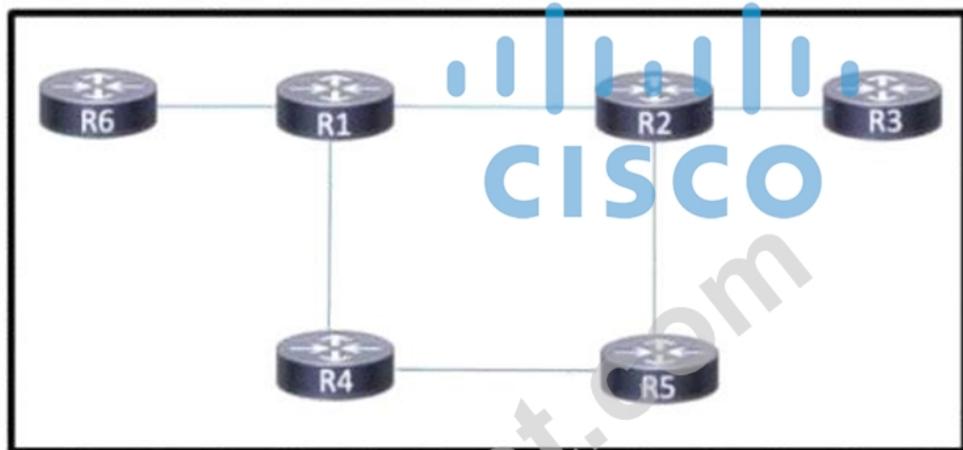
Which two of the following are true regarding the BGP Prefix-Based outbound route filtering feature? (Choose two.)

- A. The outbound route filter can be defined in a Prefix list, Distribute list or Access lists.
- B. **Outbound route filtering is configured only on a per-address family basis.**
- C. **IP multicast routes are not supported.**
- D. Outbound route filtering can be configured for either iBGP or eBGP sessions.
- E. Outbound route filtering is more effective when a distance vector IGP is used.

Answer: B,C

NEW QUESTION # 182

Refer to the exhibit.



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

```

IS-IS runs in the network and all routers are in the same area 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?

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

Answer: B

NEW QUESTION # 183

What is one of the purposes of a default Multicast Distribution Tree?

- A. to handle high-bandwidth source streams
- B. **to offload traffic from data MDT**
- C. to define the RP for PIM sparse mode and the different leafs
- D. to support control traffic between different VRFs

Answer: B

NEW QUESTION # 184

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.

Answer:

Explanation:

ASee explanation below

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

```
R2>
R2>
R2>en
R2#config t
Enter configuration commands, one per line.  End with CNTL/Z.
R2(config)#int lo
R2(config)#int lo0
R2(config-if)#ip ospf 10 area 0
R2(config-if)#^Z
R2#
R2#
R2#c
*Aug 26 11:44:48.122: %SYS-5-CONFIG_I: Configured from console by
  console
R2#copy run start
R2#copy run startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
R2#
R2#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
pe 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, l
- LISP
      a - application route
      + - replicated route, % - next hop override, p - overrides
from PfR

Gateway of last resort is not set
```

NEW QUESTION # 185

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