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Quiz 2026 Realistic 350-501 Latest Test Report - Implementing and Operating Cisco Service Provider Network Core Technologies Valid Test Practice

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Cisco 350-501 certification exam is designed for network professionals who want to prove their expertise in implementing and operating Cisco Service Provider Network Core Technologies. 350-501 exam tests the candidate's knowledge and skills related to the implementation and operation of core service provider network technologies, including network architecture, virtualization, automation, and service orchestration. Candidates who Pass 350-501 Exam will demonstrate their ability to configure, manage, and troubleshoot complex service provider network infrastructures, and will be able to design and implement scalable and reliable solutions to meet the needs of service provider customers.

Cisco Implementing and Operating Cisco Service Provider Network Core Technologies Sample Questions (Q27-Q32):

NEW QUESTION # 27
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 the BGP routing protocol for R1 and R2 according to the topology to achieve these goals:
1. Configure EBGP neighbor adjacency for the IPv4 and IPv6 address family between R1 and R2 using Loopback0 IPv4 and IPv6 addresses. All BGP updates must come from the Loopback0 interface as the source. Do not use IGP routing protocols to complete this task.
2. Configure MD5 Authentication for the EBGP adjacency between R1 and R2. The password is clear text C1sc0!.

Answer:

Explanation:
Here is the solution:

NEW QUESTION # 28
Refer to the exhibit.

Refer to the exhibit. An ISP provides shared VoIP Extranet services to a customer in VRF-100 with these settings:
The VoIP services are hosted in the 198.19.100.0/24 space.
The customer has been assigned the 198.18.1.0/29 IP address block.
VRF-100 is assigned import and export route target 65010:100.
Which configuration must the engineer apply to PE-1 to provision VRF-100 and provide access to the shared services?

- A. vrf definition VRF-100
  rd 172.17.255.1:100
  !
  address-family ipv4
  export map VRF-100-EXPORT
  route-target import 65010:100
  route-target import 65010:1999
  exit address-family
  !
  route-map VRF-100-EXPORT permit 10
  match ip address prefix-list VRF-100-ALLOWED-EXPORT
  set extcommunity rt 65010:100 65010:2999
  route-map VRF-100-EXPORT permit 20
  set extcommunity r 65010:100
  !
  ip prefix-list VRF-100-ALLOWED-EXPORT seq 5 permit 198.18.1.0/29
- B. vrf definition VRF-100
  rd 172.17.255.1:100
  !
  address-family ipv4
  export map VRF-100-EXPORT
  import map VRF-100-IMPORT
  exit-address-family
  !
  route-map VRF-100-EXPORT permit 10
  match ip address prefix-list VRF-100-ALLOWED-EXPORT
  set extcommunity rt 65010:100 65010:2999

route-map VRF-100-EXPORT permit 20
set extcommunity rt 65010:100
!
route-map VRF-100-IMPORT permit 10
match extcommunity VRF-100-RT SHARED-SERVICES
!
ip extcommunity-list standard SHARED-SERVICES permit rt 65010:1999
ip extcommunity-list standard VRF-100-RT permit rt 65010:100
ip prefix-list VRF-100-ALLOWED-EXPORT seq 5 permit 198.18.1.0/29

- C. vrf definition VRF-100
  rd 172.17.255.1:100
  !
  address-family ipv4
  route-target export 65010:100
  route-target export 65010:1999
  route-target import 65010:100
  route-target import 65010:2999
  exit-address-family
- D. vrf definition VRF-100
  rd 172.17.255.1:100
  !
  address-family ipv4
  export map VRF-100-EXPORT
  route-target import 65010:100
  route-target import 65010:2999
  exit-address-family
  !
  route-map VRF-100-EXPORT permit 10
  match ip address prefix-list VRF-100-ALLOWED-EXPORT
  set extcommunity rt 65010:100 65010:1999
  route-map VRF-100-EXPORT permit 20
  set extcommunity rt 65010:100
  !
  ip prefix-list VRF-100-ALLOWED-EXPORT seq 5 permit 198.18.1.0/29

Answer: C

NEW QUESTION # 29

Refer to the exhibit. Company A is connected to multiple upstream ISPs, with ISP_A serving as the primary upstream ISP. The company A subnet 172.43.232.0 should be announced to the secondary ISP_B only when the FTP server with IP address 10.10.1.1 is not accessible via the primary ISP. Which configuration must be applied on R1?

- A. neighbor 10.182.213.2 Condition-map Non-RIB prefix-map Advertise-route
- B. neighbor 10.182.213.3 advertise-map Advertise-route exist-map Non-RIB
- C. neighbor 10.182.213.3 advertise-map Advertise-route non-exist-map Non-RIB
- D. neighbor 10.182.213.3 prefix-map Non-RIB Condition-map Advertise-route

Answer: C

NEW QUESTION # 30

Refer to the exhibit.

An engineer is implementing Auto-RP and reviewing the configuration of the PE-A. Which configuration permits Auto-RP messages to be forwarded over this interface?

- A. PE-A(config-if)#ip pim sparse-mode
- B. PE-A(config-if)#ip igmp version 3
- C. PE-A(config-if)#no ip pim bsr-border
- D. PE-A(config-if)#ip pim sparse-dense-mode

Answer: D

Explanation:
Option D is the correct answer because, in the context of Auto-RP, sparse-dense mode allows the router to forward Auto-RP messages. Auto-RP uses dense mode multicast groups (224.0.1.39 and 224.0.1.40) to advertise RP mapping information, so enabling sparse-dense mode on the interface ensures that it can process both types of multicast traffic. References: Implementing and Operating Cisco Service Provider Network Core Technologies (SPCOR) official course materials, which can be found here.

NEW QUESTION # 31
Refer to the exhibit. ISP_A is about to launch a new internet service. ISP_A is already providing MPLS VPN Layer 3 services to Customer_A and Customer_B, which are connected to ISP_A via OSPF. A network engineer completed the BGP and VRF configurations on R2 to support the new internet service. Which additional action completed the launch?

- A. Import route-target 62:101 into the customer VRFs on R1 and R3.
- B. Implement the BGP routing protocol in the customer VRFs on R1 and R2
- C. Enable the route-replicate command under the customer VRFs on R1 and R2
- D. Activate NAT CE in the customer VRFs on R1. R2. and R3.

Answer: B

Explanation:
To complete the launch of the new internet service, ISP_A needs to ensure that routes are shared between different VRFs for Customer_A and Customer_B. Importing route-target 62:101 into the customer VRFs on R1 and R3 allows for the exchange of routes between these VRFs, facilitating the necessary connectivity for the new service. References ≔ Cisco SPCOR

NEW QUESTION # 32
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