

The Best Cisco 350-501 Free Dumps offer you accurate Reliable Exam Blueprint | Implementing and Operating Cisco Service Provider Network Core Technologies



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Cisco 350-501 Exam focuses on various areas, including network automation, network virtualization, network assurance, security, and services. 350-501 exam validates the candidate's knowledge and skills in managing and configuring various technologies, such as MPLS, Segment Routing, and VPN services. Additionally, the exam also covers topics such as network programmability, network management, and network security, which are crucial for service provider network engineers. Passing 350-501 exam demonstrates that the candidate has the expertise and skills required to implement and operate service provider networks, making them highly valuable to companies that rely on such networks.

Cisco 350-501 Exam Domains Explained

The Cisco 350-501 exam can be scheduled at Pearson VUE and has a total duration of 120 minutes. It confirms if a trainee can implement fundamental service provider network solutions and technologies by addressing the following topics:

- **Networking**

This domain emphasizes the implementation of OSPF and IS-IS as well as checks one's knowledge of the BGP path selection algorithm. The candidates also need to understand how to apply the route maps and routing policy language efficiently and resolve the issues related to routing protocols. Finally, the concepts of the high availability implementation and IPv6 transition are included in this section as well.

- **Segment Routing and MPLS**

This module revolves around the implementation of MPLS, the concepts of traffic engineering, and segment routing. The applicants should demonstrate their skills in working with LDP session protection, Unified MPLS, LDP Neighbors, TI-LFa, IGP Control Plane, Segment Types, FRR, and RSVP Functionality, and among the rest.

- **Automation and Assurance**

This domain starts by covering the programmable APIs and their role in Cisco network automation. Then, it focuses on the interpretation of an external script and configuration of Cisco devices using the REST API. What's more, this topic will also address the concepts of agent and agentless configuration tools, data analytics, gRPC, configuration and verification of the NetFlow/IPFIX, RESTCONF, and NETCONF, and SNMP (v2c/v3). Finally, the advantages of specific data modeling languages like YANG are involved as well as the significance of Network Services Orchestration (NSO) and model-driven telemetry, among the rest.

- **Architecture**

Under this section, the candidates have to show their thorough understanding of service provider architectures and virtualization, the architectures of the Cisco network software, data plane security implementation and management, and QoS architecture. Skills in configuring and verifying control plane security are required as well.

- **Services**

The topics under this module mainly assess the applicants' competence in setting up L3VPN and L2VPN along with Carrier Ethernet. Also, one should be proficient in the implementation of QoS and multicast services and understand all the main features of the VPN services well.

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Cisco Implementing and Operating Cisco Service Provider Network Core Technologies Sample Questions (Q38-Q43):

NEW QUESTION # 38

A regional MPLS VPN provider operates in two regions and wants to provide MPLS L3VPN service for a customer with two sites in these separate locations. The VPN provider approaches another organization to provide backbone carrier services so that the provider can connect to these two locations.

Which statement about this scenario is true?

- A. When BGP is used for both route and label exchange, the neighbor a.b.c.d send-label command is used under the address family VPNv4 command mode.
- **B. When eBGP is used for label exchange using the send-label option, MPLS-BGP forwarding is configured under the global ABC CSC PE-to-CE interface**
- C. When IGP is used for route exchange and LDP for label exchange, MPLS is enabled only on the VRF interface on the backbone-carrier PE side.
- D. When edge routers at different regional sites are connected over the global carrier backbone, MP- eBGP must run between the routers to exchange the customer VPNv4 routes

Answer: B

Explanation:

Referring to "(int)#mpls bgp forwarding", which has the IOS[-XE] software install a hostroute for the remote BGP peer - a requirement for label-binding.

NEW QUESTION # 39

Which component is similar to an EVPN instance?

- A. VRF
- B. IGP router ID
- C. MPLS label
- D. router distinguisher

Answer: A

NEW QUESTION # 40

Refer to the exhibit. R1 and R3 have a pseudowire connection between them, which allows R2 and R4 to communicate via Layer 2. R2 uses VLAN 10. R4 also uses VLAN 10, but with a different subnet associated. Which configuration should the engineer apply to R3 to rewrite the VLAN on traffic from R2 to VLAN 15?

- A. interface TenGigE0/0/0/0.2
l2transport encapsulation dot1q 10
rewrite ingress tag push dot1q 15 symmetric
- B. interface TenGigE0/0/0/0.1 l2transport
encapsulation dot1q 10
rewrite ingress tag pop 1
- C. interface TenGigE0/0/0/0.2 l2transport
encapsulation dot1q 15
- D. interface TenGigE0/0/0/0.1 l2transport
encapsulation dot1q 10
rewrite ingress tag translate 1-to-2 dot1q 15 second-dot1q 20

Answer: A

Explanation:

To rewrite VLAN tags between R2 and R4 across the pseudowire, the configuration should:

1. Set the encapsulation to VLAN 10 (encapsulation dot1q 10) on the interface where traffic is received from R2.
2. Rewrite the ingress tag to VLAN 15 using the rewrite ingress tag push dot1q 15 symmetric command. This pushes a new VLAN tag (15) while maintaining symmetric traffic flow for VLAN translation.

This ensures that traffic received on VLAN 10 from R2 is sent across the pseudowire with VLAN 15, satisfying the requirement to rewrite the VLAN for traffic from R2 to R4.

NEW QUESTION # 41

Which task must be performed first to implement BFD in an IS-IS environment?

- A. Disable Cisco Express Forwarding on all interfaces running routing protocols other than IS-IS
- B. Configure all ISIS routers as Level 2 devices
- C. Configure BFD under the IS-IS process
- D. Configure BFD in an interface configuration mode

Answer: C

NEW QUESTION # 42

Which characteristic describes prefix segment identifier?

- A. It is locally unique.
- B. It contains the interface address of the device per each link.
- C. It contains a router to a neighbor.
- D. It is globally unique.

Answer: D

Explanation:

The PSID plays a crucial role in segment routing, allowing efficient forwarding of packets along predefined paths. For more detailed information, please refer to the official Cisco documentation on Segment Routing and IPv6 . Unfortunately, I cannot directly cite specific pages from the provided resources, but you can find relevant details in the Cisco documentation.

NEW QUESTION # 43

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