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The 350-501 learning dumps from our company are very convenient for all people, including the convenient buying process, the download way and the study process and so on. Upon completion of your payment, you will receive the email from us in several minutes, and then you will have the right to use the Implementing and Operating Cisco Service Provider Network Core Technologies test guide from our company. In addition, there are three different versions for all people to choose. According to your actual situation, you can choose the suitable version from our 350-501 study question. We believe that the suitable version will help you improve your learning efficiency. It will be very easy for you to pass the exam and get the certification. More importantly, your will spend less time on preparing for 350-501 exam than other people.

To prepare for the Cisco 350-501 Exam, candidates should have a strong foundation in networking concepts and technologies, as well as hands-on experience in configuring and managing Cisco network devices. They should also have a good understanding of service provider network requirements and challenges, such as scalability, resilience, and service quality. Cisco offers various training resources and study materials, including instructor-led courses, e-learning modules, practice tests, and certification guides. By passing the Cisco 350-501 exam, IT professionals can enhance their career prospects and demonstrate their expertise in service provider network technologies.

Cisco 350-501 Exam Topics:

Section	Weight	Objectives
Automation and Assurance	15%	<ol style="list-style-type: none"> 1. Describe the programmable APIs used to include Cisco devices in network automation 2. Interpret an external script to configure a Cisco device using a REST API 3. Describe the role of Network Services Orchestration (NSO) 4. Describe the high-level principles and benefits of a data modeling language, such as YANG 5. Compare agent vs. agentless configuration management tools, such as Chef, Puppet, Ansible, and SaltStack 6. Describe data analytics and model-driven telemetry in service provider 7. Configure dial-in/out telemetry streams using gRPC 8. Configure and verify NetFlow/IPFIX 9. Configure and verify NETCONF and RESTCONF 10. Configure and verify SNMP (v2c/v3)

Networking	30%	<p>1. Implement IS-IS (IPv4 and IPv6)</p> <ul style="list-style-type: none"> • Route advertisement • Area addressing • Multitopology • Metrics <p>2. Implement OSPF (v2 and v3)</p> <ul style="list-style-type: none"> • Neighbor adjacency • Route advertisement • Multiarea (addressing and types) • Metrics <p>3. Describe BGP path selection algorithm</p> <p>4. Implement BGP (v4 and v6 for IBGP and EBGP)</p> <ul style="list-style-type: none"> • Neighbors • Prefix advertisement • Address family • Path selection • Attributes • Redistribution <p>5. Implement routing policy language and route maps (BGP, OSPF, IS-IS)</p> <p>6. Troubleshoot routing protocols</p> <ul style="list-style-type: none"> • Neighbor adjacency (IS-IS, OSPF, BGP) • Route advertisement (IS-IS, OSPF, BGP) <p>7. Describe IPv6 transition (NAT44, NAT64, 6RD, MAP, and DS Lite)</p> <p>8. Implement high availability</p> <ul style="list-style-type: none"> • NSF / graceful restart • NSR • BFD • Link aggregation
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Services	20%	<p>1. Describe VPN services</p> <ul style="list-style-type: none"> • EVPN • Inter-AS VPN • CSC • mVPN <p>2. Configure L2VPN and Carrier Ethernet</p> <ul style="list-style-type: none"> • Ethernet services (E-Line, E-Tree, E-Access, E-LAN) • IEEE 802.1ad, IEEE 802.1ah, and ITU G.8032 • Ethernet OAM • VLAN tag manipulation <p>3. Configure L3VPN</p> <ul style="list-style-type: none"> • Intra-AS VPN • Shared services (extranet and Internet) <p>4. Implement multicast services</p> <ul style="list-style-type: none"> • PIM (PIM-SM, PIM-SSM, and PIM-BIDIR) • IGMP v1/v2/v3 and MLD <p>5. Implement QoS services</p> <ul style="list-style-type: none"> • Classification and marking • Congestion avoidance, traffic policing, and shaping
MPLS and Segment Routing	20%	<p>1. Implement MPLS</p> <ul style="list-style-type: none"> • LDP sync • LDP session protection • LDP neighbors • Unified MPLS • MPLS OAM <p>2. Describe traffic engineering</p> <ul style="list-style-type: none"> • ISIS and OSPF extensions • RSVP functionality • FRR <p>3. Describe segment routing</p> <ul style="list-style-type: none"> • Segment types • IGP control plane • Segment routing traffic engineering • TI-LFa • PCE-PCC architectures

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Cisco 350-501 Exam is designed to test the knowledge and skills of IT professionals who are involved in implementing and operating Cisco Service Provider Network Core Technologies. 350-501 exam focuses on the practical aspects of networking and requires candidates to demonstrate their ability to configure, troubleshoot, and manage complex network infrastructures. It covers a wide range of topics, including network architecture, routing protocols, MPLS, and VPN technologies.

Cisco Implementing and Operating Cisco Service Provider Network Core Technologies Sample Questions (Q166-Q171):

NEW QUESTION # 166

Which two routing protocols support Cisco MPLS TE tunnels? (Choose two.)

- A. RIP
- B. BGP
- C. IS-IS
- D. EIGRP
- E. OSPF

Answer: C,E

Explanation:

* Cisco MPLS TE tunnels can be established using IS-IS and OSPF as the routing protocols. These protocols allow the creation of traffic-engineered paths within the MPLS network.

Implementing and Operating Cisco Service Provider Network Core Technologies course materials.

NEW QUESTION # 167

Refer to the exhibit:

□ Which command is used to complete this configuration for QoS class-based marking?

- A. PE-A(config-pmap-c)#priority
- B. PE-A(config-pmap-c)#set dscp ef
- C. PE-A(config-pmap-c)#random-detect
- D. PE-A(config-pmap-c)#fair-queue

Answer: B

NEW QUESTION # 168

A network engineer must enable multicast on the network to support a new series of webcasts.

The PIM protocol has been enabled on the LAN side, with PIM and MSDP capabilities on edge router R1. The multicast source has been configured with IP address FF3A::121, and IP protocol

58 has been enabled and successfully tested in the network. Due to the limitations of some devices on the network, the data flow should take the most efficient path.

Which task must the engineer perform to achieve the goal?

- A. Implement Anycast RP on R1.
- B. Enable PMI BSR on R1.
- C. Implement PIM-SM in the LAN.
- D. Enable PIM-SSM across the network.

Answer: D

Explanation:

PIM-SSM (Protocol Independent Multicast - Source-Specific Multicast) provides the most efficient path for multicast data flow by eliminating the need for shared trees and Rendezvous Points (RPs). It allows receivers to explicitly request traffic from a specific source, such as the multicast source at IP address FF3A::121, using IGMPv3 or MLDv2. This ensures minimal overhead and the most direct routing for multicast traffic, meeting the requirement for efficient data flow while accommodating device limitations in the network.

NEW QUESTION # 169

Refer to the exhibit.

Which two topology changes happen to the IS-IS routers? (Choose two.)

- A. R1 and R4 are Level 2 neighbours.
- **B. All four routers are operating as Level 1-2 routers.**
- **C. R1 and R2 are Level 2 neighbours.**
- D. All four routers are operating as Level 2 routers only.
- E. All four routers are operating as Level 1 routers only.

Answer: B,C

NEW QUESTION # 170

```
router(config)# route-map blackhole-trigger
router(config-route-map)# match tag 777
router(config-route-map)# set ip next-hop 10.0.1.1
router(config-route-map)# set origin igp
router(config-route-map)# set community no-export
```

Refer to the exhibit. EIGRP is running across the core to exchange internal routes, and each router maintains iBGP adjacency with the other routers on the network. An operator has configured static routes on the edge routers R1 and R2 for IP address 10.0.1.1, which is used as a black hole route as shown. Which configuration should the operator implement to the management router to create a route map that will redistribute tagged static routes into BGP and create a static route to blackhole traffic with tag 777 that is destined to the server at 192.168.10.100?

- A. `router(config)# router bgp 55100`
`router(config-router)# redistribute static route-map blackhole-trigger`
`router(config)# ip route 10.0.1.1 255.255.255.255 Null0 tag 777`
- B. `router(config)# router bgp 55100`
`router(config-router)# redistribute connected`
`router(config)# ip route 192.168.10.100 255.255.255.255 tag 777`
- **C. `router(config)# router bgp 55100`**
`router(config-router)# redistribute static route-map blackhole-trigger`
`router(config)# ip route 192.168.10.100 255.255.255.255 Null0 tag 777`
- D. `router(config)# router bgp 55100`
`router(config-router)# redistribute connected route-map blackhole-trigger`
`router(config)# ip route 192.168.10.100 255.255.255.255 Null0 tag 777`

Answer: C

Explanation:

Reference: https://www.cisco.com/c/dam/en_us/about/security/intelligence/blackhole.pdf

NEW QUESTION # 171

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