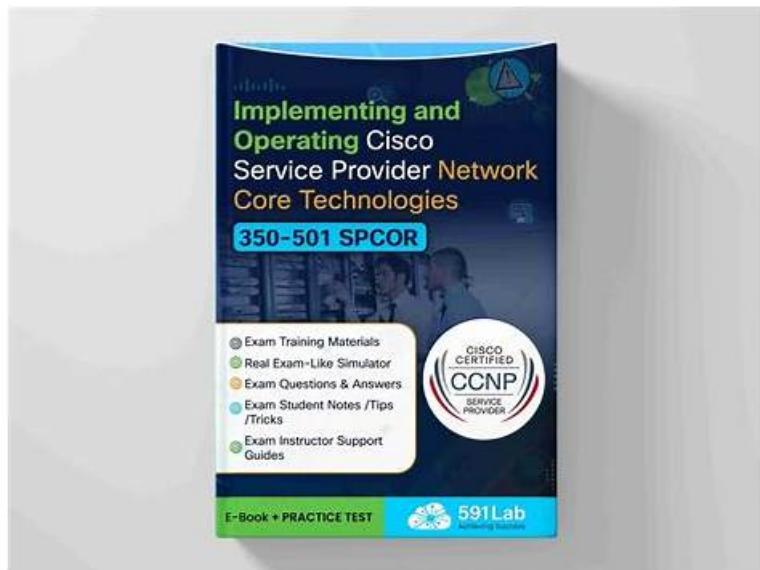


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It is a truth universally acknowledged that there are more and more people in pursuit of the better job and a better life in the competitive world, especially these people who cannot earn a nice living. A lot of people has regard passing the 350-501 exam as the best and even only one method to achieve their great goals, because they cannot find the another method that is easier than the exam to help them to make their dreams come true, and more importantly, the way of passing the 350-501 Exam can help them save a lot of time. So a growing number of people have set out to preparing for the exam in the past years in order to gain the higher standard life and a decent job. As is known to us, the exam has been more and more difficult for all people to pass, but it is because of this, people who have passed the 350-501 exam successfully and get the related certification will be taken seriously by the leaders from the great companies.

Cisco 350-501 Exam Topics:

Section	Weight	Objectives

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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Architecture	15%	<p>1. Describe service provider architectures</p> <ul style="list-style-type: none"> • Core architectures (Metro Ethernet, MPLS, unified MPLS, SR) • Transport technologies (Optical, xDSL, DOCSIS, TDM, and xPON) • Mobility (packet core, RAN xhaul transport for 4G and 5G) <p>2. Describe Cisco network software architecture</p> <ul style="list-style-type: none"> • IOS • IOS XE • IOS XR <p>3. Describe service provider virtualization</p> <ul style="list-style-type: none"> • NFV infrastructure • VNF workloads • OpenStack <p>4. Describe QoS architecture</p> <ul style="list-style-type: none"> • MPLS QoS models (Pipe, Short Pipe, and Uniform) • MPLS TE QoS (MAM, RDM, CBTS, PBTS, and DS-TE) • DiffServ and IntServ QoS models • Trust boundaries between enterprise and SP environments • IPv6 flow label <p>5. Configure and verify control plane security</p> <ul style="list-style-type: none"> • Control plane protection techniques (LPTS and CoPP) • BGP-TTL security and protocol authentication • BGP prefix suppression • LDP security (authentication and label allocation filtering) • BGP sec • BGP flowspec <p>6. Describe management plane security</p> <ul style="list-style-type: none"> • Traceback • AAA and TACACS • RestAPI security • DDoS <p>7. Implement data plane security</p> <ul style="list-style-type: none"> • uRPF • ACLs • RTBH
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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
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Networking	<p>30%</p> <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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Cisco 350-501: Implementing and Operating Cisco Service Provider Network Core Technologies Exam Certification Path

Cisco 350-501: Implementing and Operating Cisco Service Provider Network Core Technologies Exam is affiliated with the CCNP Service Provider and Cisco Accredited Professional-Service Provider VPN Services Implementation certifications. This is the official prerequisite for this exam. However, the course, Integrating VPN Services from Cisco Service Provider, allows applicants to prepare for this exam and is highly recommended.

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Exam Requirements

Cisco doesn't have any prerequisites for the candidates who want to enroll in 350-501 Exam. Still, it makes some recommendations

for those test-takers who want to make their lives easier and pass the test from the first attempt. Therefore, Cisco recommends knowing how to work with IOS XE and Cisco IOS environments at an intermediate level. Also, it would be very helpful if students were familiar with the configuration of the Cisco IOS XR features and the before-mentioned software. Also, the candidates need to have knowledge of IPv6 and IPv4 products as well as realize how to manage IP routing protocols. Finally, the certification path will be simpler for those who understand how the MPLS and VPN technologies work.

Cisco Implementing and Operating Cisco Service Provider Network Core Technologies Sample Questions (Q424-Q429):

NEW QUESTION # 424

Drag and drop the functionalities from the left onto the target fields on the right.

Answer:

Explanation:

NEW QUESTION # 425

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 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?

```
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 igr
router{config-route-map)# set community no-export
```

- A. `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`
- B. `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`
- C. `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`
- D. `router(config)# router bgp 55100
router(config-router)# redistribute connected
router(config)# ip route 192.168.10.100 255.255.255.255 tag 777`

Answer: A

NEW QUESTION # 426

A network architect decides to expand the scope of the multicast deployment within the company network the network is already using PIM-SM with a static RP that supports a high-bandwidth video-based training application that is heavily used by the employees, but excessive bandwidth usage is a concern. How must the engineer update the network to provide a more efficient multicast implementation?

- A. **Implement BSR to support dynamic RP notification.**
- B. Implement STP to improve switching performance for multicast data.
- C. Deploy ICMP to Improve multicast reachability across the network using static RP.
- D. Configure IGMP to manage the multicast hosts on each LAN

Answer: A

NEW QUESTION # 427

Refer to the exhibit.

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

Answer: C

NEW QUESTION # 428

Refer to the exhibit. An engineer started to configure a router for OSPF. Which configuration must the engineer perform on the router without changing any interface configuration so that the router establishes an OSPF neighbor relationship with its peer?

- A. `router(config)# interface ethernet 1/1`
`router(config-if)# ip ospf hello-interval`
- B. `router(config)# interface ethernet 1/1`
`router(config-if)# ip ospf priority 0`
- C. `router(config)# router ospf 11`
`router(config-if)# no passive-interface ethernet 1/1`
- D. `router(config)# interface ethernet 1/1`
`router(config-if)# no shutdown`

Answer: C

NEW QUESTION # 429

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