H31-161^{Q&As}

HCIE-Carrier IP (Written) V2.0

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QUESTION 1

1.

On the backbone network , if a PE is connect to a CE, VPN instances need to b reconfigured on the PE, and interface on the PE for connecting to the CE must be bound to a VPN instance. After binding an interface to a VPN instance, you must configure the IP address of the interface between PEs, IS-IS configured for PE interworking. PLSA basic capabilities and MPLS LSP are configured for LSP establishment, and MP _IBGP is configured for VPN route exchange VPN routes exchange , LDAP is short for Label Distribution Protocol, and IBGP is short for interior Border gateway protocol.

2.

A CE exchange route exchange routers with a PE over External Border gateway Protocol (EBGP.Configure interior gateway protocol (IGP) on the IS-IS+MPLS backbone networking to achieve the interworking between PEs and IP routers.

```
# Configure PE 1 as follows:
[PE 1] isis 100
[PE 1-isis-100] is-level level-2
[PE 1-isis-100] network-entity 10.1234.1234.1234.00
[PE 1] interface loopback1
[PE 1-LoopBack1] ip address 1.1.1.9 32
[PE 1-LoopBack1] isis enable
[PE 1-LoopBack1] quit
[PE 1] interface pos3/0/0
[PE 1-Pos3/0/0] ip address 172.1.1.1 24
[PE 1-Pos3/0/0] isis enable
[PE 1-Pos3/0/0] quit
(2) Configure MPLS basic capabilities and MPLS LDP for setting up LDP LSPs on the IS-IS+MPLS backbone network.
# Configure PE 1 as follows:
[PE 1] mpls lsr-id 1.1.1.9
[PE 1] mpls
[PE 1-mpls] lsp-trigger all
[PE 1-mpls] quit
[PE 1] mpls ldp
[PE 1-mpls-ldp] quit
[PE 1] interface pos 3/0/0
[PE 1-Pos3/0/0] mpls
[PE 1-Pos3/0/0] mpls ldp
[PE 1-Pos3/0/0] quit
(3) Configure VPN instances on a PE for connecting CEs to the PE.
# Configure PE 1 as follows:
[PE 1] ip vpn-instance vpna
[PE 1-vpn-instance-vpna] route-distinguisher 100:1
[PE 1-vpn-instance-vpna] vpn-target 111:1 both
[PE 1-vpn-instance-vpna] quit
[PE 1] ip vpn-instance vpnb
[PE 1-vpn-instance-vpnb] route-distinguisher 100:2
[PE 1-vpn-instance-vpnb] vpn-target 222:2 both
[PE 1-vpn-instance-vpnb] quit
[PE 1] interface gigabitethernet 1/0/0
[PE 1-GigabitEthernet1/0/0] ip binding vpn-instance vpna
[PE 1-GigabitEthernet1/0/0] ip address 10.1.1.2 24
[PE 1-GigabitEthernet1/0/0] quit
[PE 1] interface gigabitethernet 2/0/0
[PE 1-GigabitEthernet2/0/0] ip binding vpn-instance vpnb
[PE 1-GigabitEthernet2/0/0] ip address 10.2.1.2 24
[PE 1-GigabitEthernet2/0/0] quit
(4) Set up an EBGP peer relationship between a PE and a CE and import VPN routes.
# Configure PE 1 as follows:
[PE 1] bgp 100
[PE 1-bgp] ipv4-family vpn-instance vpna
[PE 1-bgp-vpna] peer 10.1.1.1 as-number 65410
[PE 1-bgp-vpna] import-route direct
[PE 1-bgp-vpna] quit
[PE 1-bgp] ipv4-family vpn-instance vpnb
[PE 1-bgp-vpnb] peer 10.2.1.1 as-number 65420
[PE 1-bgp-vpnb] import-route direct
[PE 1-bgp-vpnb] quit
(5) Set up an MP-IBGP peer relationship between PEs.
# Configure PE 1 as follows:
[PE 1] bgp 100
[PE 1-bgp] peer 3.3.3.9 as-number 100
[PE 1-bgp] peer 3.3.3.9 connect-interface loopback 1
[PE 1-bgp] ipv4-family vpnv4
[PE 1-bgp-af-vpnv4] peer 3.3.3.9 enable
[PE 1-bgp-af-vpnv4] quit
```

A. -4

B. -3

C. -2

D. -5

E. -1

Correct Answer: D

QUESTION 2

When the multicast source starts to send multicast data and no receiver joins in the RP in PIM-SM, which of the following statements are true?

A. The RP receives a registration message from the source DR, creates a multicast routing entry (S, G), and sends a register stop message to the source DR.

B. After the source DR unicasts registration information to the RP, the multicast routing entries (S, G) of all source groups are generated in the RP but the outbound interface is null.

C. After receiving a registration message, the RP creates the multicast routing entries (*, G) of all source groups and sends a register stop message to the source DR.

D. After all sources unicast registration information to the RP, no multicast route entries related to source groups are generated due to receiver absence.

Correct Answer: AB

QUESTION 3

Which statement about the edge access layer is true?

A. It connects users to the network by providing various access means, and converts the format of information so that the information can be transmitted on the network.

B. Using the packet technology, it provides a comprehensive transport platform that boasts high reliability, quality of service (QoS) assurance, and large capacity.

C. It implements call control. With the softswitch technology as the core, it completes basic realtime call control and connection control.

D. It provides additional value-added services and operation support for established calls

Correct Answer: A

QUESTION 4

An IPTV bearer network requires the broadband TV (BTV), VOD, and near video on demand (NVOD) services. Video programs use the standard MPEG 4 codec format. Which of the following statements about the QoS policy are true?

A. To ensure the IPTV service quality on the user side, reserve 4 Mbit/s bandwidth for the IPTV service for each user and plan extra bandwidth for the broadband Internet service.

B. To ensure the IPTV service quality on the user side, reserve 2.5 Mbit/s bandwidth for the IPTV service for each user

and plan extra bandwidth for the broadband Internet service.

C. Ensure that the BTV service has a higher priority than the VOD/NVOD service, and forward the downstream traffic and some protocol packets, such as the IGMP and PIM packets in priority.

D. Ensure that the VOD/NVOD service has a higher priority than the BTV service and guarantee QoS of both the upstream and downstream traffic.

Correct Answer: BC

QUESTION 5

OSPF BFD helps fast detect neighbor down events. OSPF BFD can be in which of the following states?

A. Down

B. Attempt

C. Init

D. 2-way

E. Established

F. Up

Correct Answer: ACF

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