



H31-161^{Q&As}

HCIE-Carrier IP (Written) V2.0

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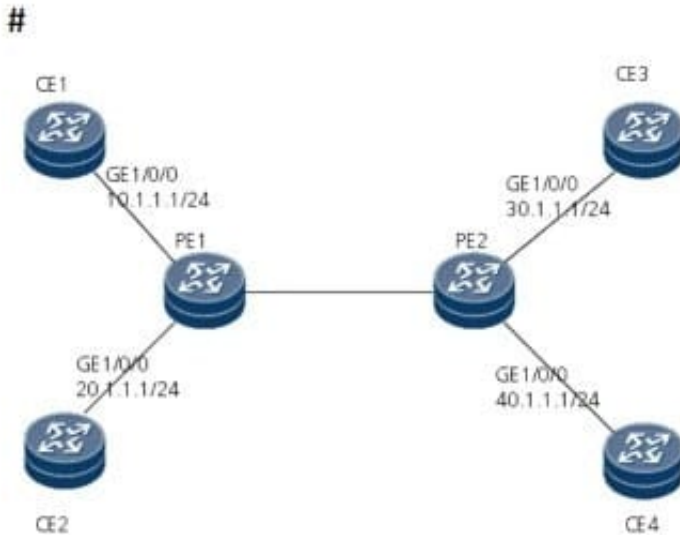
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QUESTION 1

Refer to the exhibit.



As shown in the figure, CE 1 and CE 3 belong to VPN A, CE 2 and CE 4 belong to VPN B, and users on different VPNs are not allowed to access each other. Which of the following configurations can enable mutual access between CE 1 and CE 4 but forbid cross-VPN access between other CEs?

Configuration of PE 1:

```
sysname PE 1
```

```
# ip vpn-instance vpna route-distinguisher 100:1 vpn-target 1:1 3:3 export-extcommunity vpn-target 1:1 3:3 import-extcommunity # ip vpn-instance vpnb route-distinguisher 100:2 vpn-target 2:2 4:4 export-extcommunity vpn-target 2:2 4:4 import-extcommunity # Configuration of PE 2:
```

```
# sysname PE 2 # ip vpn-instance vpna route-distinguisher 200:1 vpn-target 1:1 export-extcommunity vpn-target 1:1 import-extcommunity # ip vpn-instance vpnb route-distinguisher 200:2 vpn-target 2:2 4:4 export-extcommunity vpn-target 2:2 4:4 import-extcommunity
```

- A. Run vpn-target 1:1 on VPN b of PE 2 The configuration is as follows: [PE 2]ip vpn vpnb [PE 2-vpn-instance-vpnb]vpn-target 1:1 export-extcommunity [PE 2-vpn-instance-vpnb]vpn-target 1:1 import-extcommunity
- B. Run vpn-target 2:2 on VPN a of PE 1 The configuration is as follows: [PE 1]ip vpn vpna [PE 1-vpn-instance-vpna]vpn-target 2:2 export-extcommunity [PE 1-vpn-instance-vpna]vpn-target 2:2 import-extcommunity
- C. Run vpn-target 3:3 on VPN b of PE 2 The configuration is as follows: [PE 2]ip vpn vpnb [PE 2-vpn-instance-vpnb]vpn-target 3:3 export-extcommunity [PE 2-vpn-instance-vpnb]vpn-target 3:3 import-extcommunity "
- D. Run vpn-target 4:4 on VPN a of PE 1 The configuration is as follows: [PE 1]ip vpn vpna [PE 1-vpn-instance-vpna]vpn-target 4:4 export-extcommunity [PE 1-vpn-instance-vpna]vpn-target 4:4 import-extcommunity

Correct Answer: C



QUESTION 2

Which of the following statements about the working principle of LDP FRR are true?

- A. After LDP FRR is enabled, a backup LSP is generated both the primary and backup LSPs are stored in the forwarding table.
- B. LDP TFRR can be deployed on the ingress node and the intermediate node. The primary and backup LSPs are recorded in the ILM table on the intermediate node and on the FIB table on the ingress node.
- C. After LDP FRR enable, a backup can be generated for a primary LSP to prevent serious packet loss during flapping of the primary LSP.
- D. Multiple LSPs can be up on the ingress node, that is entries about multiple backup LSPs are generated in the forwarding table according to the priority of the FRR, implementing multi-layer protection.

Correct Answer: C

QUESTION 3

RTA is a leaf router that directly connects to host A through interface GigabitEthernet 1/0/0. The interface is configured as follows:

```
interface GigabitEthernet1/0/0
undo shutdown
ip address 192.168.4.2 255.255.255.0
pim sm
igmp enable
igmp version 3
igmp ssm-mapping enable
igmp static-group 232.1.1.1
Configurations in the IGMP view are as follows:
igmp
 ssm-mapping 232.1.1.0 255.255.255.0 10.10.1.1
 ssm-mapping 232.1.2.0 255.255.255.0 10.10.1.1
```

Host A sends an IGMPv2 Report message to group 232.1.2.3. Which entry can be displayed by the displayed by the igmp ssm-mapping group command?

- A. (10.10.1.1, 232.1.2.2)
- B. (10.10.1.1, 232.1.1.) and (10.10.1., 232.1.2.3)
- C. (10.10.1.1, 232.1.1.1)

Correct Answer: A



QUESTION 4

Which statement is false?

- A. The ASM multicast forwarding model does not allow the receiver to specify a multicast source.
- B. The PIM SSM multicast routing protocol cannot set up shared multicast forwarding trees.
- C. The SSM multicast forwarding model considers an (S,G) entry as one channel.
- D. The IGMP SSM Mapping function is to map a (*,G) Join message reported by the host to an (S,G) Join message.

Correct Answer: D

QUESTION 5

display current-configuration multicast routing-enable # acl number 2000 rule 5 permit source 225.0.0.0 0.0.0.255

interface Ethernet6/1/0 ip address 10.1.1.1 255.255.255.0 igmp enable pim sm # igmp # pim ssm-policy 2000 # return
The preceding are partial multicast router configurations. Which of the following configurations are required

to configure the SSM Mapping on Ethernet 6/1/0 and map IGMPv2 Report messages for multicast group

225.0.0.1 to multicast source 2.2.2.2?

- A. ssm-mapping 225.0.0.0 255.255.255.0 2.2.2.2
- B. igmp on-demand
- C. igmp prompt-leave
- D. igmp ssm-mapping enable

Correct Answer: AD

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