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1.VXLAN uses MAC-in-UDP encapsulation to extend Layer 2 networks. It encapsulates Ethernet frames into IP packets for routing, without considering the MAC addresses of VMs. In addition, routed networks are not limited by the network architecture and support large-scale scalability. VM migration through routed networks is also not limited by the network architecture.

- A. True
- B. False

Answer: A

2.The free mobility solution allows a user on a campus network to obtain the same network access policy regardless of the user's location and IP address. When configuring a policy, the administrator does not need to pay attention to the IP address ranges of different users, but only needs to focus on the logical access relationships between users and servers.

- A. True
- B. False

Answer: A

3.What are the characteristics of Segment Routing?

- A. Its deployment is dependent on the controller.
- B. It introduces the source routing mechanism conforming to SDN.
- C. Its deployment is dependent on LDP and RSVP.
- D. It reduces the number of protocols and extends IGP/BGP to support label distribution without depending on LDP or RSVP.

Answer: B,D

4.If only one firewall is deployed at the egress of the network, a failure on the firewall will affect services on the entire network. To improve network reliability, you can deploy two or more firewalls and set up a stack system. Member firewalls do not need to be managed independently. You only need to configure the stack system.

- A. True
- B. False

Answer: A

5.Which of the following statements are true about the underlay and overlay concepts on a data center network? (Select all that apply)

- A. After implementing overlay technology, there is no need to deploy routing protocols or static routes on the underlay network.
- B. An underlay network is a bearer network consisting of various physical devices, such as switches and VAS devices.
- C. Overlay technology is a tunneling method that encapsulates service packets and transmits them transparently over the underlay network, with the origin recovered after reaching their destination.
- D. Overlay is a software-defined logical network built on the underlay network using VXLAN.

Answer: B,C,D

6.The campus WAN interconnection solution is a sub-solution provided in the Cloud Campus Solution for

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Huawei HCSA-Presales-IP Network V4.0 Sample Questions (Q44-Q49):

NEW QUESTION # 44

Huawei's HiSecEngine firewalls have a large security database and comprehensive security detection capabilities. How many applications can a Huawei firewall identify at most?

- A. 6000+
- B. 20000+
- C. 10000+
- D. 15000+

Answer: B

Explanation:

Huawei's HiSecEngine firewalls use a massive and frequently updated security signature database, which includes:

Application identification

Intrusion prevention rules

Virus and malware signature libraries

The latest-generation HiSecEngine USG firewalls can identify over 20,000 applications, providing granular control over network traffic and ensuring compliance, performance, and security.

Reference:

HCSA-IP Network V4.0 Study Guide - Chapter 8: Huawei Network Security Products and Solutions Huawei HiSecEngine Firewall Datasheet and Threat Detection Capability Guide

NEW QUESTION # 45

Huawei's innovative VIP user assurance solution utilizes the unique VIP FastPass and per-packet power control technologies to significantly increase the network bandwidth of VIP users.

- A. False
- B. True

Answer: B

Explanation:

Huawei's VIP user assurance solution, introduced in their Wi-Fi 6 and Wi-Fi 7 AirEngine APs, includes two key technologies:

VIP FastPass: Identifies and prioritizes VIP users at the air interface level to ensure their packets are transmitted first.

Per-Packet Power Control (PPC): Dynamically adjusts the transmit power for each packet to improve signal quality and reduce interference for VIP users.

These technologies increase both reliability and available bandwidth for high-value users and critical applications.

Reference:

Huawei HCSA-IP Network V4.0 Study Guide # Chapter: Huawei Campus WLAN Products and Solutions Huawei AirEngine Wi-Fi 6/7 Product White Paper # VIP User Experience Optimization Section

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NEW QUESTION # 46

Products can be configured in the SCT, but services cannot be configured in the SCT.

- A. False
- B. True

Answer: A

Explanation:

In Huawei's Solution Configuration Tool (SCT), both products and services can be configured. SCT allows users to:

Select and configure hardware products

Configure value-added services, such as installation, maintenance, and technical support. Generate solution reports including both device specs and service components. Therefore, the statement is false because services can indeed be configured in SCT alongside hardware products.

Reference:

HCSA-IP Network V4.0 Study Guide - Chapter 9: Introduction of SCT and How to Configure Data Communication Products with SCT Huawei SCT Online Interface and User Guide

NEW QUESTION # 47

Which of the following statements are true about the underlay and overlay concepts on a data center network?

(Select all that apply)

- A. After implementing overlay technology, there is no need to deploy routing protocols or static routes on the underlay network.
- B. Overlay technology is a tunneling method that encapsulates service packets and transmits them transparently over the underlay network, with the origin recovered after reaching their destination.
- C. Overlay is a software-defined logical network built on the underlay network using VXLAN.
- D. An underlay network is a bearer network consisting of various physical devices, such as switches and VAS devices.

Answer: B,C,D

Explanation:

In Huawei's data center network architecture, an underlay network refers to the physical infrastructure comprising switches, routers, and other network equipment (e.g., VAS devices), responsible for basic IP connectivity. This supports statement B.

The overlay network is logically built on top of the underlay and uses tunneling protocols such as VXLAN (MAC-in-UDP) to encapsulate Layer 2/Layer 3 service traffic. This encapsulation ensures transparent delivery of packets across IP underlays. This supports both C and D.

Statement A is incorrect: even when using an overlay, the underlay still requires routing protocols (like OSPF, BGP) or static routes to ensure IP reachability between VXLAN Tunnel Endpoints (VTEPs). Overlay tunnels ride on top of this IP connectivity.

Reference:

Huawei HCSA-IP Network V4.0 Study Guide # Chapter: Huawei Data Center Network Solutions Huawei CloudFabric Solution White Paper # Section: Overlay and Underlay Network Architecture

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NEW QUESTION # 48

Which component is not included in the data center network connection?

- A. Server
- B. High-performance server (AI)
- C. Storage
- D. Camera

Answer: D

Explanation:

A typical data center network connects core computing and storage infrastructure, including:

B: Server

C: High-performance AI server

D: Storage devices (NAS, SAN, etc.)

A: Camera is not a core data center component; it may be connected via separate surveillance or edge networks, not the main data center network fabric.

Reference:

HCSA-IP Network V4.0 Study Guide - Chapter 7: Huawei Data Center Network Products and Solutions Huawei CloudFabric Network Architecture Guide

NEW QUESTION # 49

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- [illegible]

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