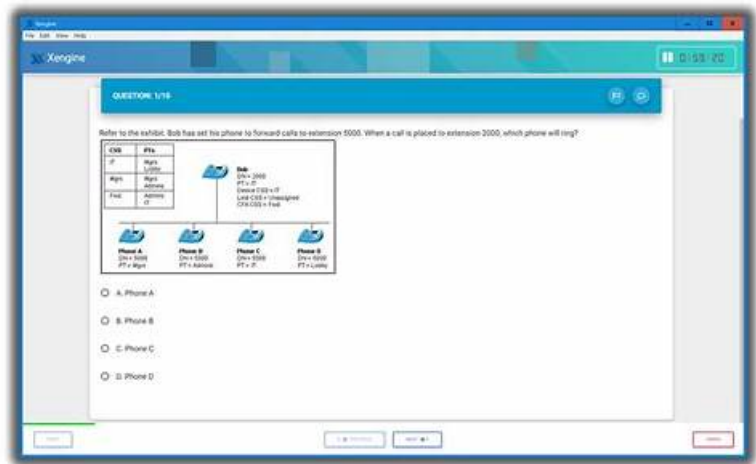


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Huawei H12-893_V1.0 Exam Syllabus Topics:

Topic	Details
Topic 1	Data Center Network O&M: Aimed at Data Center Network Engineers, this section evaluates their understanding of operation and maintenance (O&M) challenges in data center networks. It introduces Huawei's intelligent O&M solutions, including iMaster NCE-Fabric and iMaster NCE-FabricInsight, and discusses typical O&M scenarios, management, monitoring, troubleshooting practices, and automated O&M strategies through network service programmability.

Topic 2	• Data Center Network Technology and Application: This section evaluates the skills of IT Solution Architects and Data Center Network Engineers in understanding the fundamental concepts, evolution, and significance of data centers in modern enterprises. It delves into the overall architecture, including computing, storage, and networking components, and highlights typical application scenarios in sectors like finance, government, and large enterprises. Additionally, it introduces core concepts of data center networking (DCN), focusing on the Spine-Leaf architecture, and provides an overview of essential data center technologies such as VXLAN-based network layers, Underlay and Overlay networks, integrated cabling designs (ToR, EoR, MoR), equipment room modules, and the role of iMaster NCE in managing network devices.
Topic 3	• Technical Principles and Applications of Virtualization: This section assesses the skills of IT Solution Architects and Data Center Network Engineers in understanding server and network virtualization concepts, benefits, and implementation strategies within data centers. It also introduces Huawei's FusionCompute platform, its features, functionalities, and applications in virtualization scenarios.
Topic 4	• Data Center Network Planning and Deployment: This section assesses Data Center Network Engineers' skills in planning, designing, and deploying data center networks using the CloudFabric solution. It covers network architecture design, data planning, underlay and overlay network design, security considerations, management strategies, and provides a deployment guide for the CloudFabric solution in computing scenarios, including pre-configuration, service provisioning, and simplified deployment processes.

Huawei HCIP-Data Center Network V1.0 Sample Questions (Q51-Q56):

NEW QUESTION # 51

In the spine-leaf DCN architecture, the border leaf node and service leaf node can be deployed on the same device.

- A. TRUE
- B. FALSE

Answer: A

Explanation:

In Huawei's spine-leaf data center network (DCN) architecture, the topology consists of spine nodes (core) and leaf nodes (access/aggregation). Leaf nodes can serve different roles:

Border Leaf Node: Connects the DCN to external networks or other domains, handling Layer 3 routing.

Service Leaf Node: Connects to internal services (e.g., servers, VMs), often handling Layer 2/Layer 3 traffic.

In practice, a single physical device can be configured to perform both roles (border and service) if it has the necessary interfaces and routing capabilities. Huawei's CloudFabric documentation supports this flexibility, allowing a leaf switch to act as both a border and service node based on configuration (e.g., using VRFs or VXLAN gateways). This reduces hardware costs and simplifies deployment in smaller DCNs.

The statement is TRUE (A) because the border leaf and service leaf roles can be deployed on the same device in a spine-leaf architecture.

NEW QUESTION # 52

In the DCN architecture, spine nodes connect various network devices to the VXLAN network.

- A. TRUE
- B. FALSE

Answer: A

Explanation:

In Huawei's Data Center Network (DCN) architecture, particularly with the CloudFabric solution, the spine-leaf topology is a common design for scalable and efficient data centers. VXLAN (Virtual Extensible LAN) is used to create overlay networks, enabling large-scale multi-tenancy and flexible workload placement.

Spine Nodes' Role: In this architecture, spine nodes act as the backbone, interconnecting leaf nodes (which connect to servers, storage, or other endpoints) and facilitating high-speed, non-blocking communication. Spine nodes typically handle Layer 3 routing and serve as VXLAN tunnel endpoints (VTEPs) or connect to devices that do, integrating the physical underlay with the VXLAN

overlay network.

Connection to VXLAN: Spine nodes ensure that traffic from various network devices (via leaf nodes) is routed efficiently across the VXLAN fabric. They provide the high-bandwidth, low-latency backbone required for east-west traffic in modern data centers, supporting VXLAN encapsulation and decapsulation indirectly or directly depending on the deployment.

Thus, the statement is TRUE (A) because spine nodes play a critical role in connecting the underlay network (various devices via leaf nodes) to the VXLAN overlay, as per Huawei's DCN design principles.

NEW QUESTION # 53

VXLAN is a network virtualization technology that uses MAC-in-UDP encapsulation. What is the destination port number used during UDP encapsulation?

- A. 0
- **B. 1**
- C. 2
- D. 3

Answer: B

Explanation:

VXLAN (Virtual Extensible LAN) is a network overlay technology that encapsulates Layer 2 Ethernet frames within UDP packets to extend Layer 2 networks over Layer 3 infrastructure, widely used in Huawei's CloudFabric data center solutions. The encapsulation process, often referred to as "MAC-in-UDP," involves wrapping the original Ethernet frame (including MAC addresses) inside a UDP packet.

UDP Encapsulation: The VXLAN header follows the UDP header, and the destination UDP port number identifies VXLAN traffic. The Internet Assigned Numbers Authority (IANA) has officially assigned UDP port 4789 as the default destination port for VXLAN.

Options Analysis:

A . 4787: This is not a standard VXLAN port and is not recognized by IANA or Huawei documentation.

B . 4789: This is the correct and widely adopted destination port for VXLAN, as specified in RFC 7348 and implemented in Huawei's VXLAN configurations.

C . 4790: This port is not associated with VXLAN and is unused in this context.

D . 4788: This is not a standard VXLAN port; it may be confused with other protocols but is not correct for VXLAN.

Thus, the destination port number used during UDP encapsulation in VXLAN is B (4789), aligning with Huawei's VXLAN implementation standards.

NEW QUESTION # 54

Which of the following is not an advantage of link aggregation on CE series switches?

- A. Improved reliability
- B. Load balancing supported
- C. Increased bandwidth
- **D. Improved forwarding performance of switches**

Answer: D

Explanation:

Link aggregation, often implemented using Link Aggregation Control Protocol (LACP) on Huawei CloudEngine (CE) series switches, combines multiple physical links into a single logical link to enhance network performance and resilience. The primary advantages include:

Load Balancing Supported (B): Link aggregation distributes traffic across multiple links based on hashing algorithms (e.g., source/destination IP or MAC), improving load distribution and preventing any single link from becoming a bottleneck.

Increased Bandwidth (C): By aggregating multiple links (e.g., 1 Gbps ports into a 4 Gbps logical link), the total available bandwidth increases proportionally to the number of links.

Improved Reliability (D): If one link fails, traffic is automatically redistributed to the remaining links, ensuring continuous connectivity and high availability.

However, Improved Forwarding Performance of Switches (A) is not a direct advantage. Forwarding performance relates to the switch's internal packet processing capabilities (e.g., ASIC performance, forwarding table size), which link aggregation does not inherently enhance. While it optimizes link utilization, it doesn't improve the switch's intrinsic forwarding rate or reduce latency at the hardware level. This aligns with Huawei's CE series switch documentation, where link aggregation is described as enhancing

bandwidth and reliability, not the switch's core forwarding engine.

NEW QUESTION # 55

Which of the following can be used as the conditions for microsegmentation to divide EPGs? (Select All that Apply)

- A. IP address
- B. MAC address
- C. Operating system
- D. VM name

Answer: A,B,C,D

Explanation:

Microsegmentation in Huawei's data center networks (e.g., CloudFabric with SDN) divides Endpoint Groups (EPGs) to enforce fine-grained security policies. EPGs group endpoints (e.g., VMs) based on attributes. Let's evaluate each option:

A . Operating system: This is true. The OS type (e.g., Linux, Windows) can be used to segment EPGs, enabling policy enforcement based on OS-specific security needs. TRUE.

B . VM name: This is true. VM names can be used as identifiers for microsegmentation, allowing policies to target specific VMs. TRUE.

C . IP address: This is true. IP addresses are commonly used to define EPG boundaries, especially for network-based segmentation. TRUE.

D . MAC address: This is true. MAC addresses can segment EPGs, particularly for Layer 2-based policies or device-specific isolation. TRUE.

All options A, B, C, and D are valid conditions for microsegmentation to divide EPGs in Huawei's implementation.

NEW QUESTION # 56

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