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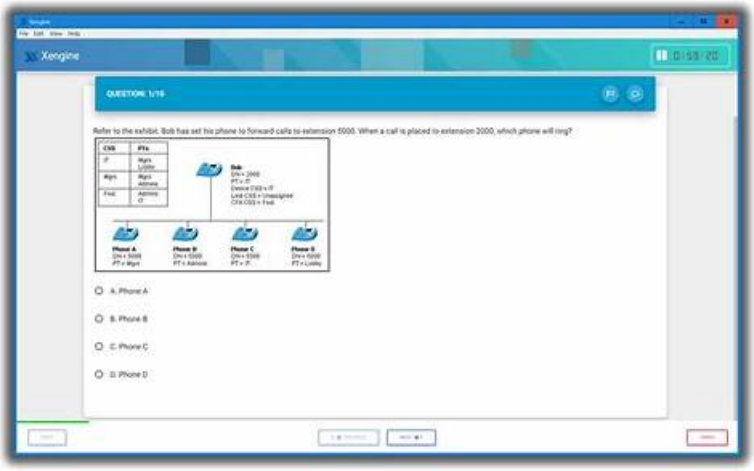

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Huawei H12-893_V1.0 Exam Syllabus Topics:

Topic	Details
Topic 1	• Technical Principles and Application of M-LAG: This section introduces Multi-Chassis Link Aggregation (M-LAG) concepts to Data Center Network Engineers, covering its basic principles, configurations, benefits in enhancing network reliability, mechanisms for failure protection within M-LAG setups, deployment processes, considerations, and best practices for M-LAG in data centers.

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	• 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.
Topic 4	• 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 5	• Technical Principles and Applications of VXLAN: Aimed at Data Center Network Engineers, this section evaluates their understanding of the necessity, development, and foundational concepts of VXLAN technology in addressing traditional network limitations. It also delves into the principles of Ethernet VPN (EVPN) as a control plane for VXLAN and presents practical VXLAN deployment examples in common data center scenarios.

Huawei HCIP-Data Center Network V1.0 Sample Questions (Q13-Q18):

NEW QUESTION # 13
Which of the following can be used as the conditions for microsegmentation to divide EPGs? (Select All that Apply)

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

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 # 14
Which of the following can be deployed to enhance DC reliability? (Select All that Apply)

- A. M-LAG

- B. Controller cluster
- C. Power supply redundancy
- D. Monitor Link

Answer: A,B,C

Explanation:
Reliability in Huawei's CloudFabric data centers is enhanced through various mechanisms. Let's evaluate each option:
A . Power supply redundancy: This is true. Redundant power supplies (e.g., dual PSUs) ensure uninterrupted operation during power failures, a key reliability feature. TRUE.
B . M-LAG (Multi-Chassis Link Aggregation): This is true. M-LAG provides high availability by allowing active-active forwarding and failover between switches, enhancing network reliability. TRUE.
C . Monitor Link: This is false. Monitor Link is a Huawei feature for link status monitoring, not a direct reliability enhancement mechanism like redundancy or clustering. FALSE.
D . Controller cluster: This is true. A clustered SDN controller (e.g., iMaster NCE-Fabric) ensures high availability and failover, improving network management reliability. TRUE.
Thus, A, B, and D enhance DC reliability.

NEW QUESTION # 15
Which of the following protocols is used to back up session tables between the active and standby firewalls in the hot standby scenario?

- A. M-LAG
- B. BFD
- C. HRP
- D. VRRP

Answer: C

Explanation:
In a hot standby scenario, firewalls (e.g., Huawei USG series) maintain high availability by synchronizing session tables between active and standby devices to ensure seamless failover. Let's evaluate each protocol:
A . M-LAG (Multi-Chassis Link Aggregation): M-LAG is a link aggregation technology for switches, not designed for session table backup between firewalls. Incorrect.
B . VRRP (Virtual Router Redundancy Protocol): VRRP provides gateway redundancy by electing a master router, but it does not handle session table synchronization between firewalls. Incorrect.
C . BFD (Bidirectional Forwarding Detection): BFD is a fast failure detection protocol used with routing protocols, not for session table backup. Incorrect.
D . HRP (Hot Standby Redundancy Protocol): HRP is Huawei's proprietary protocol specifically designed for firewall hot standby scenarios. It synchronizes session tables, configuration data, and status information between active and standby firewalls to ensure stateful failover. Correct.
Thus, the answer is D (HRP).

NEW QUESTION # 16
In an M-LAG, two CE series switches send M-LAG synchronization packets through the peer-link to synchronize information with each other in real time. Which of the following entries need to be included in the M-LAG synchronization packets to ensure that traffic forwarding is not affected if either device fails? (Select All that Apply)

- A. ARP entries
- B. MAC address entries
- C. IGMP entries
- D. Routing entries

Answer: A,B

Explanation:
Multi-Chassis Link Aggregation Group (M-LAG) is a high-availability technology on Huawei CloudEngine (CE) series switches, where two switches appear as a single logical device to downstream devices. The peer-link between the M-LAG peers synchronizes critical information to ensure seamless failover if one device fails. Let's evaluate the entries:

A . MAC Address Entries: MAC address tables map device MACs to ports. In M-LAG, synchronizing MAC entries ensures that both switches know the location of connected devices. If one switch fails, the surviving switch can forward Layer 2 traffic without relearning MAC addresses, preventing disruptions. Required.
B . Routing Entries: Routing entries (e.g., OSPF or BGP routes) are maintained at Layer 3 and typically synchronized via routing protocols, not M-LAG peer-link packets. M-LAG operates at Layer 2, and while Layer 3 can be overlaid (e.g., with VXLAN), routing table synchronization is not a standard M-LAG requirement. Not Required.
C . IGMP Entries: IGMP (Internet Group Management Protocol) entries track multicast group memberships. While useful for multicast traffic, they are not critical for basic unicast traffic forwarding in M-LAG failover scenarios. Huawei documentation indicates IGMP synchronization is optional and context-specific, not mandatory for general traffic continuity. Not Required.
D . ARP Entries: ARP (Address Resolution Protocol) entries map IP addresses to MAC addresses, crucial for Layer 2/Layer 3 communication. Synchronizing ARP entries ensures the surviving switch can resolve IP-to-MAC mappings post-failover, avoiding ARP flooding or traffic loss. Required.
Thus, A (MAC address entries) and D (ARP entries) are essential for M-LAG synchronization to maintain traffic forwarding during failover, per Huawei CE switch M-LAG design.

NEW QUESTION # 17
In network overlay, both endpoints of a VXLAN tunnel are physical switches.

- A. FALSE
- B. TRUE

Answer: A

Explanation:
In a network overlay, VXLAN (Virtual Extensible LAN) tunnels extend Layer 2 networks over a Layer 3 underlay, commonly implemented in Huawei's data center solutions. The endpoints of a VXLAN tunnel are VXLAN Tunnel Endpoints (VTEPs), which encapsulate and decapsulate traffic.
VTEP Roles: VTEPs can be physical switches (e.g., Huawei CloudEngine series), virtual switches (e.g., Open vSwitch on a hypervisor), or routers with VXLAN support. The endpoints are defined by their IP addresses, not their physical nature.
Deployment Flexibility: In modern data centers, VXLAN tunnels often connect physical switches to virtualized environments where VTEPs reside on hypervisors or servers hosting VMs. For example, a VM's vNIC might connect to a virtual switch (VTEP) that tunnels to a physical switch VTEP. Thus, both endpoints are not always physical switches; one or both can be virtual.
The statement is FALSE (B) because both endpoints of a VXLAN tunnel are not necessarily physical switches; they can include virtual VTEPs in hypervisors or other devices.

NEW QUESTION # 18
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