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Section	Weight	Objectives
Topic 1: VXLAN Technology Principles and Applications	25%	- VXLAN fundamentals and evolution - EVPN control plane technology - VXLAN deployment and configuration - Huawei FusionCompute platform
Topic 2: Virtualization Technology Principles and Applications	20%	• 1. Application scenarios • 2. Features and functions - Server and network virtualization basics

Topic 3: Data Center Network Operation and Maintenance	25%	- Monitoring and troubleshooting - Automated O&M and programmability - Intelligent O&M solutions • 1. iMaster NCE-Fabric • 2. iMaster NCE-FabricInsight - CloudFabric solution architecture • 1. Underlay network design • 2. Overlay network design
Topic 4: Data Center Network Planning and Deployment	30%	- Security and management design - Network deployment and provisioning • 1. Pre-deployment configuration • 2. Service provisioning process

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Huawei HCIP-Data Center Network V1.0 Sample Questions (Q44-Q49):

NEW QUESTION # 44

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

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

Answer: C

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 # 45

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. VRRP
- **C. HRP**
- D. BFD

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 # 46

In which of the following phases can CloudFabric implement full-lifecycle automatic network management and control? (Select All that Apply)

- **A. Planning and construction**
- **B. Service provisioning**
- **C. O&M and monitoring**
- **D. Change optimization**

Answer: A,B,C,D

Explanation:

Huawei's CloudFabric solution provides an SDN-based framework for data center network management, supporting automation across the network lifecycle. Let's evaluate each phase:

A). Planning and construction: This is true. CloudFabric automates network design, resource allocation, and deployment during the planning and construction phase using tools like iMaster NCE. TRUE.

B). Service provisioning: This is true. Automated service orchestration (e.g., VXLAN tunnel setup, tenant configuration) is a key feature during provisioning. TRUE.

C). O&M and monitoring: This is true. CloudFabric offers real-time monitoring, fault detection, and performance optimization through centralized management. TRUE.

D). Change optimization: This is true. The solution supports automated upgrades, policy adjustments, and optimization based on analytics, covering the change management phase.

TRUE.

All phases A, B, C, and D are supported by CloudFabric's full-lifecycle automation.

NEW QUESTION # 47

In the CloudFabric Solution, SecoManager and iMaster NCE-Fabric are deployed independently. After SecoManager is installed, it needs to be manually interconnected with iMaster NCE-Fabric.

- A. TRUE
- **B. FALSE**

Answer: B

Explanation:

In Huawei's CloudFabric Solution, SecoManager (Security Manager) and iMaster NCE-Fabric (Network Controller) are components of the SDN ecosystem. SecoManager handles security policy management, while iMaster NCE-Fabric manages network orchestration.

Deployment: These components can be deployed independently but are designed to integrate seamlessly. Huawei's architecture supports automated interconnection after installation, leveraging northbound/southbound APIs or pre-configured integration workflows.

Interconnection: Manual interconnection is not required post-installation; the system automates the process once both are deployed and configured within the same management domain (e.g., via IP addressing and authentication).

The statement is FALSE (B) because interconnection is automated, not manual.

NEW QUESTION # 48

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. Routing entries
- C. MAC address entries
- D. IGMP entries

Answer: A,C

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 # 49

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