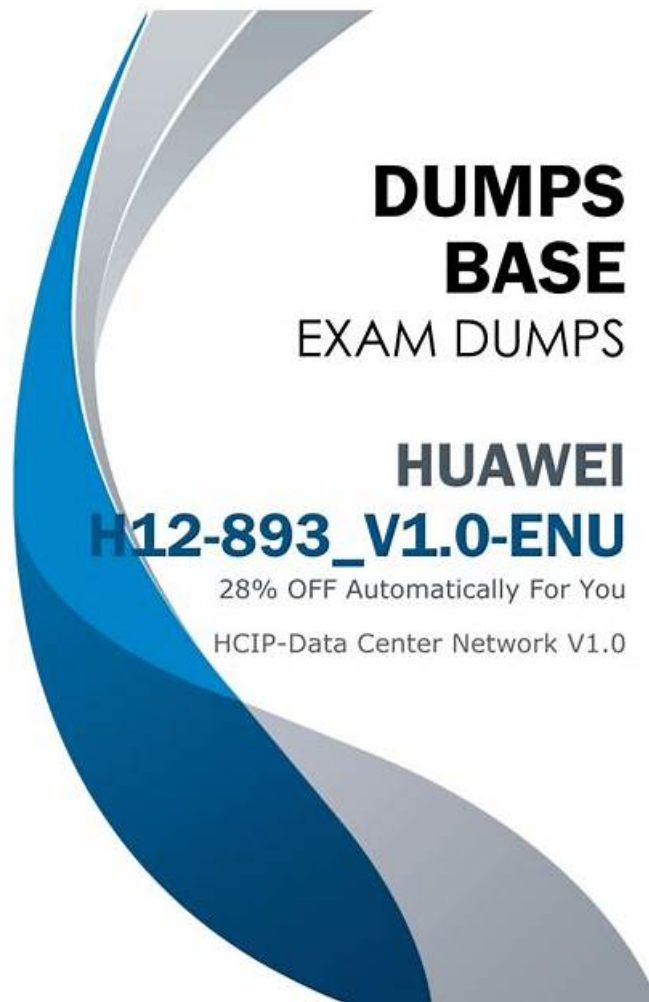


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Huawei H12-893_V1.0 Exam Syllabus Topics:

Topic	Details
Topic 1	Huawei CloudFabric Solution: Targeting IT Solution Architects, this section introduces Huawei's CloudFabric solution, addressing evolving trends and challenges in data center networks. It highlights the solution's components, key features, and advantages in modern data centers.

Topic 2	• 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 3	• 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.

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Huawei HCIP-Data Center Network V1.0 Sample Questions (Q18-Q23):

NEW QUESTION # 18

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: C

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 # 19

Which of the following operations need to be performed before deployment in Easy mode? (Select All that Apply)

- A. Pre-configure the access ports.
- B. Load the license.
- C. Configure an SSH fingerprint verification policy.
- D. Disable data synchronization upon going online for the first time.

Answer: A,B

Explanation:

The Easy mode in Huawei's iMaster NCE-Fabric simplifies VXLAN fabric deployment with automated configuration. Certain pre-deployment steps are required. Let's evaluate each option:

A . Disable data synchronization upon going online for the first time: This is false. Data synchronization is typically enabled by default to ensure consistency; disabling it is not a standard pre-deployment step and is optional based on specific needs. FALSE.

B . Load the license: This is true. A valid license must be loaded into iMaster NCE-Fabric before deployment to unlock features, including Easy mode functionality. TRUE.

C . Pre-configure the access ports: This is true. Access ports on devices (e.g., server leaf nodes) need to be pre-configured (e.g., with VLANs or basic settings) to ensure connectivity before Easy mode automation begins. TRUE.

D . Configure an SSH fingerprint verification policy: This is false. SSH fingerprint verification is part of security configuration but is not a mandatory pre-deployment step for Easy mode; it can be set post-deployment or is automated. FALSE.

Thus, B (Load the license) and C (Pre-configure the access ports) are required operations before deployment in Easy mode.

NEW QUESTION # 20

In EVPN Type 3 routes, the MPLS Label field carries a Layer 3 VNI.

- A. TRUE
- B. FALSE

Answer: B

Explanation:

EVPN (Ethernet VPN) is a control plane technology used with VXLAN in Huawei's data center networks to provide Layer 2 and Layer 3 connectivity. EVPN routes are advertised using BGP, with different types serving specific purposes. Type 3 routes (Inclusive Multicast Ethernet Tag routes) are used for multicast or BUM (Broadcast, Unknown Unicast, Multicast) traffic handling in VXLAN networks.

MPLS Label Field: In MPLS (Multiprotocol Label Switching), the label field is used to identify the forwarding equivalence class (FEC) or virtual circuit. In EVPN with VXLAN, MPLS labels can be used in underlay networks, but VXLAN itself relies on a VNI (VXLAN Network Identifier) in the VXLAN header for overlay segmentation.

Layer 3 VNI: A Layer 3 VNI is associated with inter-subnet routing in EVPN, typically carried in Type 5 routes (IP Prefix routes) for Layer 3 forwarding. Type 3 routes, however, focus on multicast distribution and carry a Layer 2 VNI or multicast group information, not a Layer 3 VNI.

MPLS Label in Type 3 Routes: The MPLS label in Type 3 routes, if used, identifies the VXLAN tunnel or multicast group, not a Layer 3 VNI. The Layer 3 VNI is specific to Type 5 routes for routing between subnets, not Type 3's multicast focus.

Thus, the statement is FALSE (B) because the MPLS Label field in EVPN Type 3 routes does not carry a Layer 3 VNI; it relates to Layer 2 multicast or tunnel identification.

NEW QUESTION # 21

Which of the following statements are false about heartbeat link faults in an M-LAG? (Select All that Apply)

- A. The fault protection mechanism is triggered.
- B. The fault that two master devices exist cannot be detected in the case of a peer-link fault.
- C. Services are affected.

- D. An alarm is triggered.

Answer: B,C

Explanation:

In Huawei's M-LAG (Multi-Chassis Link Aggregation), the heartbeat link (or peer-link) ensures communication between member devices. A fault in this link can impact M-LAG operation. Let's evaluate each statement:

A . The fault that two master devices exist cannot be detected in the case of a peer-link fault; This is false. A peer-link fault can be detected, and mechanisms like dual-master detection (e.g., via Inter-Chassis Communication Link or ICC) can identify if both devices assume master roles, triggering corrective actions. FALSE.

B . An alarm is triggered: This is true. A peer-link fault generates an alarm to notify administrators, as it's a critical failure in M-LAG operation, per Huawei's fault management system. TRUE.

C . The fault protection mechanism is triggered: This is true. Huawei M-LAG includes protection mechanisms (e.g., failover to backup links or shutdown of conflicting interfaces) to mitigate peer-link faults and maintain service continuity. TRUE.

D . Services are affected: This is false. With proper configuration (e.g., redundant links or fast failover), services should not be affected by a peer-link fault, as M-LAG is designed for high availability. Impact depends on redundancy, but the design goal is uninterrupted service. FALSE.

Thus, A and D are false statements because dual-master faults can be detected, and services are not necessarily affected with adequate redundancy.

NEW QUESTION # 22

In Huawei CloudFabric Solution, OSPF or BGP can be used on the underlay network of a DC.

- A. TRUE
- B. FALSE

Answer: A

Explanation:

In Huawei's CloudFabric Solution, the underlay network provides the physical infrastructure for VXLAN overlays. Both OSPF (Open Shortest Path First) and BGP (Border Gateway Protocol) are supported routing protocols:

OSPF: Suitable for smaller to medium-sized DCNs, offering fast convergence and simplicity.

BGP: Preferred for large-scale DCNs, providing scalability and multi-tenancy support (e.g., EBGP for inter-AS or iBGP for intra-DC).

Huawei documentation confirms flexibility in choosing OSPF or BGP based on network size and requirements. The statement is TRUE (A).

NEW QUESTION # 23

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