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**Exam :** H12-893\_V1.0-ENU

**Title :** HCIP-Data Center Network  
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## Huawei H12-893\_V1.0 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>

Topic 2	<ul style="list-style-type: none"> <li>• <b>Data Center Network Technology and Application:</b> 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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• <b>Technical Principles and Applications of VXLAN:</b> 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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• <b>Technical Principles and Application of M-LAG:</b> 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.</li> </ul>

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## Huawei HCIP-Data Center Network V1.0 Sample Questions (Q15-Q20):

### NEW QUESTION # 15

Which of the following statements are true about IP address planning for a DC? (Select All that Apply)

- A. IP addresses must be contiguous. The routes with contiguous IP addresses can be summarized easily on a hierarchical network.
- B. Service addresses refer to the IP addresses of servers, hosts, and gateways.
- C. IP address allocation should be simple and easy to manage, reflect network layers, and simplify network management and network expansion.
- D. IP addresses with a 24-bit mask are recommended for use as interconnection IP addresses.

**Answer: B,C**

Explanation:

IP address planning is critical in Huawei's CloudFabric data center networks to ensure scalability and efficiency. Let's evaluate each statement:

A . Service addresses refer to the IP addresses of servers, hosts, and gateways: This is true. Service addresses are assigned to endpoints (servers, hosts) and gateways, distinguishing them from management or interconnection IPs in DC planning. TRUE.

B . IP addresses with a 24-bit mask are recommended for use as interconnection IP addresses: This is false. A 24-bit mask (/24) is typically used for service subnets, while interconnection IPs (e.g., between spine and leaf) often use smaller masks (e.g., /31 or /30) to conserve addresses and align with point-to-point links. FALSE.

C . IP addresses must be contiguous. The routes with contiguous IP addresses can be summarized easily on a hierarchical network: This is false. Contiguity is desirable for summarization but not mandatory; non-contiguous blocks can still be managed with proper routing design (e.g., using BGP). FALSE.

D . IP address allocation should be simple and easy to manage, reflect network layers, and simplify network management and network expansion: This is true. Huawei recommends structured allocation (e.g., by layer or function) to streamline management and support future growth. TRUE.

Thus, A and D are true statements about IP address planning.

### NEW QUESTION # 16

Which of the following technologies are Layer 4 load balancing technologies? (Select All that Apply)

- A. PPP
- B. HAProxy
- C. Nginx
- D. LVS

**Answer: B,C,D**

Explanation:

Layer 4 load balancing operates at the transport layer (OSI Layer 4), using TCP/UDP protocols to distribute traffic based on information like IP addresses and port numbers, without inspecting the application-layer content (Layer 7). Let's evaluate each option:

A . Nginx: Nginx is a versatile web server and reverse proxy that supports both Layer 4 and Layer 7 load balancing. In its Layer 4 mode (e.g., with the stream module), it balances TCP/UDP traffic, making it a Layer 4 load balancing technology. This is widely used in Huawei's CloudFabric DCN solutions for traffic distribution. TRUE.

B . PPP (Point-to-Point Protocol): PPP is a Layer 2 protocol used for establishing direct connections between two nodes, typically in WAN scenarios (e.g., dial-up or VPNs). It does not perform load balancing at Layer 4 or any layer, as it's a point-to-point encapsulation protocol. FALSE.

C . LVS (Linux Virtual Server): LVS is a high-performance, open-source load balancing solution integrated into the Linux kernel. It operates at Layer 4, using techniques like NAT, IP tunneling, or direct routing to distribute TCP/UDP traffic across backend servers. It's a core Layer 4 technology in enterprise DCNs. TRUE.

D . HAProxy: HAProxy is a high-availability load balancer that supports both Layer 4 (TCP mode) and Layer 7 (HTTP mode). In TCP mode, it balances traffic based on Layer 4 attributes, making it a Layer 4 load balancing technology. It's commonly deployed in Huawei DCN environments. TRUE.

Thus, A (Nginx), C (LVS), and D (HAProxy) are Layer 4 load balancing technologies. PPP is not.

### NEW QUESTION # 17

Which of the following O&M functions are supported in Huawei CloudFabric Solution? (Select All that Apply)

- A. Visualization of entries (MAC/IP) on logical routers and switches
- B. Single-path detection
- C. Network connectivity detection, such as IP ping and MAC ping
- D. Multi-path detection

**Answer: A,C,D**

Explanation:

Huawei's CloudFabric Solution, managed by iMaster NCE-Fabric, provides robust Operations and Maintenance (O&M) capabilities. Let's evaluate each option:

A . Multi-path detection: This is true. CloudFabric supports multi-path detection (e.g., using ECMP) to verify load balancing and path diversity in the network. TRUE.

B . Network connectivity detection, such as IP ping and MAC ping: This is true. Tools like IP ping and MAC ping are supported for troubleshooting connectivity between devices and endpoints. TRUE.

C . Single-path detection: This is false. While multi-path detection is supported, single-path detection is not a distinct O&M function; connectivity checks typically involve multiple paths or end-to-end verification. FALSE.

D . Visualization of entries (MAC/IP) on logical routers and switches: This is true. CloudFabric provides visualization of MAC and IP entries on logical network elements, aiding in network management and troubleshooting. TRUE.

Thus, A, B, and D are supported O&M functions.

### NEW QUESTION # 18

Which of the following nodes is a backbone node of a DC and provides high-speed IP forwarding?

- A. Service leaf
- B. Spine
- C. Border leaf

- D. DC1 leaf

**Answer: B**

Explanation:

In Huawei's spine-leaf DCN architecture, nodes have distinct roles:

- A . Spine: The spine nodes form the backbone of the data center, providing high-speed IP forwarding between leaf nodes. They handle east-west traffic with non-blocking connectivity, making them the core backbone nodes. Correct.
  - B . DC1 leaf: This is not a standard node type; it may be a typo or misnomer. Leaf nodes connect to endpoints, not act as backbones. Incorrect.
  - C . Service leaf: Service leaf nodes connect to internal services (e.g., servers), not the backbone, focusing on access rather than high-speed forwarding. Incorrect.
  - D . Border leaf: Border leaf nodes connect to external networks, handling routing, not serving as the internal backbone. Incorrect.
- Thus, the answer is A (Spine).

## NEW QUESTION # 19

Which of the following technologies are open-source virtualization technologies? (Select All that Apply)

- A. KVM
- B. Hyper-V
- C. FusionSphere
- D. Xen

**Answer: A,D**

Explanation:

Virtualization technologies enable the creation of virtual machines (VMs) by abstracting hardware resources. Open-source technologies are freely available with accessible source code. Let's evaluate each option:

- A . Hyper-V: Hyper-V is a hypervisor developed by Microsoft, integrated into Windows Server and available as a standalone product. It is proprietary, not open-source, as its source code is not publicly available. Not Open-Source.
- B . Xen: Xen is an open-source hypervisor maintained by the Xen Project under the Linux Foundation. It supports multiple guest operating systems and is widely used in cloud environments (e.g., Citrix XenServer builds on it). Its source code is freely available. Open-Source.
- C . FusionSphere: FusionSphere is Huawei's proprietary virtualization and cloud computing platform, based on OpenStack and other components. While it integrates open-source elements (e.g., KVM), FusionSphere itself is a commercial product, not fully open-source. Not Open-Source.
- D . KVM (Kernel-based Virtual Machine): KVM is an open-source virtualization technology integrated into the Linux kernel. It turns Linux into a Type-1 hypervisor, and its source code is available under the GNU General Public License. It's widely used in Huawei's virtualization solutions. Open-Source.

Thus, B (Xen) and D (KVM) are open-source virtualization technologies.

## NEW QUESTION # 20

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