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Huawei H12-893_V1.0 Exam Syllabus Topics:

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

Topic 2	<ul style="list-style-type: none"> • 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 3	<ul style="list-style-type: none"> • 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 4	<ul style="list-style-type: none"> • 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 5	<ul style="list-style-type: none"> • 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 (Q40-Q45):

NEW QUESTION # 40

Which of the following components is not required to provide necessary computing, storage, and network resources for VMs during VM creation?

- A. Neutron
- B. Nova
- C. Cinder
- **D. Ceilometer**

Answer: D

Explanation:

This question pertains to OpenStack, a common virtualization platform in Huawei's HCIP-Data Center Network curriculum, where components collaborate to create and manage virtual machines (VMs). Let's analyze each component's role in providing computing, storage, and network resources during VM creation:

A . Nova: Nova is the compute service in OpenStack, responsible for managing VM lifecycles, including provisioning CPU and

memory resources. It's essential for providing computing resources during VM creation. Required.

B . Neutron: Neutron is the networking service, handling virtual network creation, IP allocation, and connectivity (e.g., VXLAN or VLAN) for VMs. It's critical for providing network resources during VM creation. Required.

C . Ceilometer: Ceilometer is the telemetry service, used for monitoring, metering, and collecting usage data (e.g., CPU utilization, disk I/O) of VMs. While useful for billing or optimization, it does not directly provide computing, storage, or network resources during VM creation. Not Required.

D . Cinder: Cinder is the block storage service, providing persistent storage volumes for VMs (e.g., for OS disks or data). It's essential for providing storage resources during VM creation if a volume is attached. Required.

Thus, C (Ceilometer) is not required to provision the core resources (computing, storage, network) for VM creation, as its role is monitoring, not resource allocation.

NEW QUESTION # 41

Which of the following statements are true about common storage types used by enterprises?

- A. Block storage typically applies to remote backup storage.
- B. Object storage devices are typically disk arrays.
- C. Block storage applies to databases that require high I/O.
- D. FTP servers are typically used for file storage.

Answer: C,D

Explanation:

Comprehensive and Detailed in Depth

A . FTP servers are typically used for file storage.

This is correct. FTP (File Transfer Protocol) servers are indeed a common way to store and share files. They are widely used for basic file storage and transfer needs.

B . Object storage devices are typically disk arrays.

This is incorrect. Object storage devices are not typically disk arrays in the traditional sense. Object storage is designed for massive amounts of unstructured data. While they use disks for persistence, they present data as objects with metadata, rather than as blocks or files. Object storage solutions often use distributed systems across many servers, not just a single array.

C . Block storage applies to databases that require high I/O.

This is correct. Block storage is ideal for applications that demand high I/O performance, such as databases. Block storage provides raw, unformatted data blocks, giving applications direct control and low latency.

D . Block storage typically applies to remote backup storage.

This is partially true, but not the typical primary use case. While block storage can be used for remote backups, it is generally considered less efficient and more expensive than object storage for this purpose. Object storage is better suited for large, unstructured backup datasets. Block storage is better for applications that need fast read/write speeds, such as databases and virtual machines.

Therefore, the correct answers are A and C.

Reference to Huawei Data Center Network documents:

Huawei storage product documentation detailing block storage (e.g., OceanStor Dorado), file storage, and object storage (e.g., OceanStor Pacific) characteristics and use cases.

Huawei white papers on data center storage architectures, which compare and contrast different storage types.

Huawei HCIP-Storage training materials, which will have very detailed information regarding each of the storage types, and their use cases.

NEW QUESTION # 42

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

- A. An alarm is triggered.
- B. Services are affected.
- C. The fault that two master devices exist cannot be detected in the case of a peer-link fault.
- D. The fault protection mechanism 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 # 43

Which of the following are the application scenarios of Huawei CloudFabric Solution? (Select All that Apply)

- A. Cloud-network integration
- B. Container network
- C. Hosting
- D. OpenFlow network
- E. Computing

Answer: A,B,C

NEW QUESTION # 44

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 # 45

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