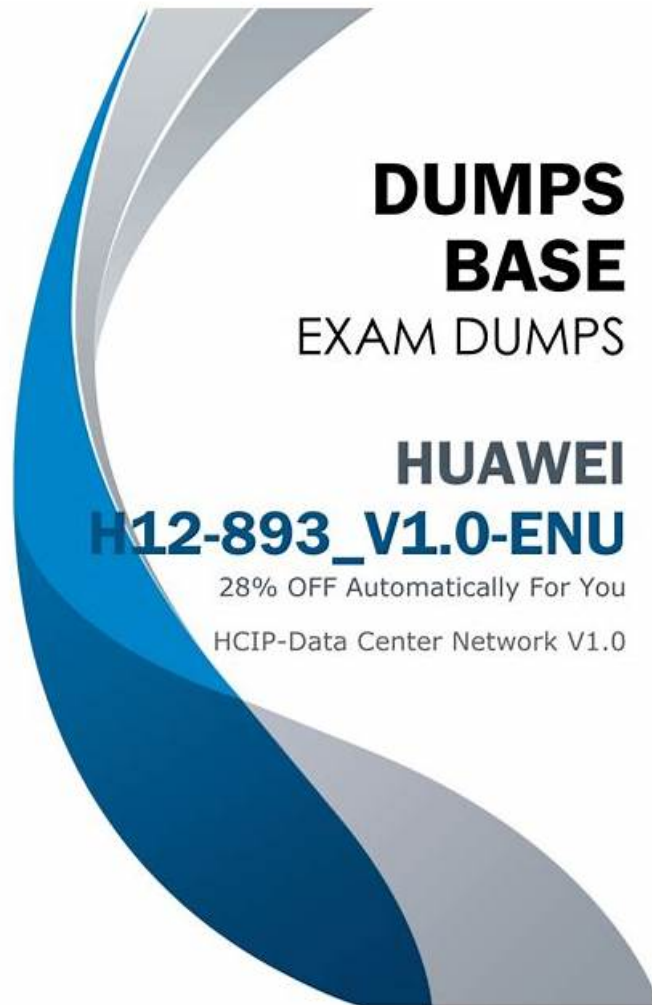


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Huawei H12-893_V1.0 Exam Syllabus Topics:

Topic	Details

Topic 1	<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.
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"> • 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 4	<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 5	<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 6	<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.

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

NEW QUESTION # 15

Both M-LAG and stacking technologies can overcome the disadvantages of traditional DCNs. However, M-LAG is a better choice to ensure 24/7 service continuity.

- A. TRUE
- B. FALSE

Answer: A

Explanation:

Traditional data center networks (DCNs) often suffer from single points of failure, limited scalability, and traffic bottlenecks. Both M-LAG and stacking address these issues, but their suitability for 24/7 service continuity differs.

M-LAG Benefits: M-LAG (Multi-Chassis Link Aggregation) on Huawei CE switches allows two devices to act as a single logical switch, providing active-active forwarding, high availability, and rapid failover (e.g., via peer-link synchronization). It supports non-stop service during device failures, making it ideal for 24/7 continuity.

Stacking Benefits: Stacking combines multiple switches into a single logical unit, sharing a control plane. While it improves scalability and simplifies management, a stack master failure can disrupt the entire stack unless redundancy is perfectly configured, potentially affecting service continuity.

Comparison: M-LAG's decentralized design and real-time synchronization offer better fault isolation and recovery compared to stacking, where a master switch failure impacts the stack. Huawei documentation highlights M-LAG's superiority for high-availability scenarios like 24/7 operations.

The statement is TRUE (A) because M-LAG is indeed a better choice than stacking for ensuring 24/7 service continuity due to its robust failover and redundancy features.

NEW QUESTION # 16

In the VPC interworking scenario, traffic is checked and filtered only by the firewall in the source or destination VPC.

- A. FALSE
- B. TRUE

Answer: A

Explanation:

In Huawei's CloudFabric Solution, Virtual Private Clouds (VPCs) enable isolated network environments, and interworking scenarios involve traffic between VPCs. The statement claims that traffic is checked and filtered only by the firewall in the source or destination VPC. Let's evaluate:

VPC Interworking: Traffic between VPCs can be routed via a gateway (e.g., a Layer 3 gateway or centralized router) and may involve multiple security checkpoints depending on the design. Firewalls can be deployed in the source VPC, destination VPC, or a centralized location (e.g., a service chain or border gateway).

Firewall Role: The statement implies exclusivity (only one firewall), but in practice, traffic may be filtered by firewalls at both ends, a centralized firewall, or additional security devices (e.g., VAS nodes) in the path. For example, inter-VPC traffic might pass through a firewall in the source VPC for egress filtering and another in the destination VPC for ingress filtering, or a shared firewall in a hub-and-spoke model. Huawei's security architecture (e.g., with SecoManager) supports distributed or centralized filtering, not limited to a single VPC's firewall.

The statement is FALSE (B) because traffic is not restricted to being checked and filtered only by the firewall in the source or destination VPC; multiple firewalls or security devices may be involved.

NEW QUESTION # 17

In the computing scenario of Huawei CloudFabric Solution, which of the following services are optional for controller interconnection? (Select All that Apply)

- A. Interconnection with the VMM
- B. Interconnection with FabricInsight
- C. Interconnection with eSight
- D. Interconnection with the authentication server

Answer: B,C

Explanation:

In Huawei's CloudFabric Solution, the iMaster NCE-Fabric controller manages the network in computing scenarios (e.g., virtualized environments). Controller interconnection with external systems can be mandatory or optional depending on functionality. Let's evaluate each option:

A . Interconnection with FabricInsight: This is optional. FabricInsight is an analytics and assurance tool that enhances visibility and troubleshooting but is not required for basic controller operations in the computing scenario. OPTIONAL.

B . Interconnection with the authentication server: This is mandatory. Authentication servers (e.g., RADIUS, TACACS+) are essential for securing access to the controller and managed devices, a core requirement in computing scenarios. NOT OPTIONAL.

C . Interconnection with eSight: This is optional. eSight is a network management platform that provides additional monitoring and management capabilities, but it is not necessary for core controller functionality. OPTIONAL.

D . Interconnection with the VMM (Virtual Machine Manager): This is mandatory. Interconnection with a VMM (e.g., FusionCompute, OpenStack) is required to manage virtualized computing resources and orchestrate network services in the computing scenario. NOT OPTIONAL.

Thus, A (Interconnection with FabricInsight) and C (Interconnection with eSight) are optional services for controller interconnection.

NEW QUESTION # 18

Fill in blank

The FusionCompute logical architecture consists of two modules: ____ and CNA. (Enter the acronym in uppercase letters.)

Answer:

Explanation:

VRM

Explanation:

FusionCompute is Huawei's virtualization platform, part of the FusionSphere ecosystem, designed for managing virtualized resources in data centers. Its logical architecture consists of two primary modules:

VRM (Virtualization Resource Management): VRM is the management module responsible for centralized control, resource allocation, and monitoring of virtual machines, hosts, and clusters. It provides the user interface and orchestration capabilities for administrators to manage the virtualized environment.

CNA (Compute Node Agent): CNA runs on physical hosts and handles the execution of virtualization tasks, such as VM creation, resource scheduling, and communication with the underlying hypervisor (typically KVM in Huawei's implementation). It acts as the compute node agent interfacing with the hardware.

Together, VRM and CNA form the core logical architecture of FusionCompute, with VRM managing the environment and CNA executing the compute tasks. The answer, per Huawei's documentation, is VRM.

NEW QUESTION # 19

An enterprise builds a DC and deploys iMaster NCE-Fabric to automatically deliver network configurations. After the engineer manually deploys the underlay network and delivers overlay network configurations through iMaster NCE-Fabric, it is found that tenant hosts cannot access external networks. Which of the following is not a possible cause of this fault?

- A. The engineer did not check whether the service loopback interface needs to be configured on the VXLAN network based on the switch model.
- B. No firewall security policy is configured when host traffic passes through the firewall.
- C. No return route is configured on the PE.
- D. The MAC address of the NVE interface on the VXLAN network is not manually specified.

Answer: D

Explanation:

In Huawei's CloudFabric Solution, iMaster NCE-Fabric automates overlay network (e.g., VXLAN) configuration, while the underlay network is manually deployed. Tenant hosts failing to access external networks indicate a connectivity issue, likely at the overlay-underlay boundary or security layer. Let's evaluate each option as a possible cause:

A . No return route is configured on the PE: This is a possible cause. The Provider Edge (PE) device (e.g., border leaf or router) must have a return route to the tenant's VXLAN network for external access. Without it, traffic from external networks cannot reach the DC. POSSIBLE CAUSE.

B . The engineer did not check whether the service loopback interface needs to be configured on the VXLAN network based on the switch model: This is a possible cause. Some Huawei switch models (e.g., CE series) require a service loopback interface as the VTEP source IP. If omitted or misconfigured based on the model, external connectivity fails. POSSIBLE CAUSE.

C . No firewall security policy is configured when host traffic passes through the firewall: This is a possible cause. If a firewall is in the path (e.g., between tenant VPC and external network), a missing security policy (e.g., allowing outbound traffic) blocks access. POSSIBLE CAUSE.

D . The MAC address of the NVE interface on the VXLAN network is not manually specified: This is not a possible cause. The Network Virtualization Edge (NVE) interface in VXLAN does not require a manually specified MAC address; it uses the switch's system MAC or auto-generates one. iMaster NCE-Fabric typically handles this automatically, and manual specification is neither required nor a common fault point for external access issues. NOT A POSSIBLE CAUSE.

Thus, D is not a possible cause of the fault.

NEW QUESTION # 20

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