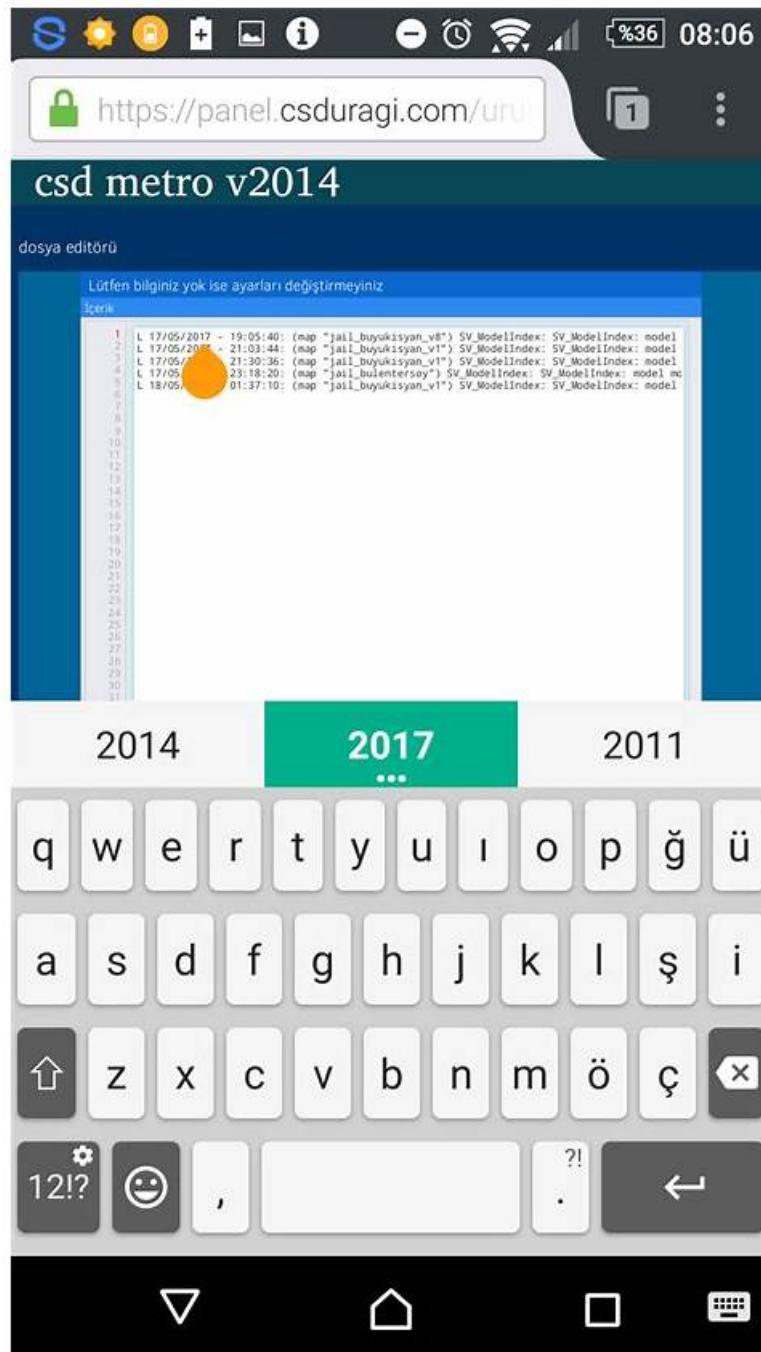


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VMware 3V0-42.23 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Install, Configure, Administrate the VMware Solution: This section does not include any testable objectives. It focuses on providing a high-level understanding of installation and administrative tasks related to VMware solutions.
Topic 2	<ul style="list-style-type: none">Troubleshoot and Optimize the VMware Solution: This section does not include any testable objectives. It is intended to offer insights into troubleshooting methodologies and optimization strategies for VMware environments.
Topic 3	<ul style="list-style-type: none">VMware Solution: This section of the exam measures the skills of NSX Administrators and Cloud Architects in understanding NSX architecture and its components. It covers the main elements of NSX architecture, including management clusters, control planes, and data planes. It also addresses NSX Manager sizing options, cluster design decisions, and differences between enterprise and service provider NSX designs.
Topic 4	<ul style="list-style-type: none">IT Architectures, Technologies, Standards: This section of the exam does not include any testable objectives. It is designed to provide foundational context for understanding VMware solutions and their alignment with IT architectures, technologies, and standards.
Topic 5	<ul style="list-style-type: none">Plan and Design the VMware Solution: This section evaluates the expertise of Solution Designers and Infrastructure Architects in planning and designing VMware solutions. It includes identifying design terms, frameworks, and methodologies, understanding VMware Cloud Foundation designs, and analyzing customer requirements. Additionally, it covers conceptual, logical, and physical designs for NSX Edge clusters, logical switching, routing architectures, security features, network services, physical infrastructure design, multi-location setups with NSX Federation, and optimization using DPU-based acceleration.

VMware NSX 4.x Advanced Design Sample Questions (Q131-Q136):

NEW QUESTION # 131

How do VRF Lite configurations enhance NSX network design?

- A. By simplifying the physical network layout
- B. By enabling more granular control over routing and segmentation**
- C. By increasing the physical distance that signals can travel
- D. By reducing the overall cost of the network infrastructure

Answer: B

NEW QUESTION # 132

Which three VMware guidelines are recommended when designing VLANs and subnets for a single region and single availability zone?(Choose three.)

- A. Use the RFC2460 IPv6 address space for these subnets and allocate one set by region and another set by function.
- B. Use the RFC1918 IPv4 address space for these subnets and allocate one octet by region and another octet by function.**

- C. Use the IP address of the floating interface for Virtual Router Redundancy Protocol (VRRP) or Hot Standby Routing Protocol (HSRP) as the gateway.
- D. Use only /24 subnets to reduce confusion and mistakes when handling IPv4 subnetting.
- E. Use only /16 subnets to reduce confusion and mistakes when handling IPv4 subnetting.

Answer: B,C,D

Explanation:

- * RFC1918 Address Space (A)
- * VMware recommends using private IPv4 address ranges from RFC1918. This ensures internal network segmentation without public exposure.
- * Allocating one octet for region and another for function helps with structured IP management.
- * Subnet Sizing (D)
- * Using /24 subnets is preferred in NSX-T design because:
 - * It simplifies management by offering 256 usable IP addresses per subnet.
 - * It prevents overlapping IP issues and ensures better compatibility with firewalls and routers.
- * Floating Interface for VRRP/HSRP (E)
- * NSX-T supports redundant gateways using VRRP (Virtual Router Redundancy Protocol) or HSRP (Hot Standby Routing Protocol).
- * The floating IP acts as a redundant gateway, ensuring seamless failover in multi-gateway environments.
- * Incorrect Options:
 - * (B - IPv6 RFC2460) # NSX primarily uses IPv4 for most enterprise deployments. IPv6 support is limited and requires additional configuration.
 - * (C - /16 Subnets) # Using /16 subnets is impractical for micro-segmentation as it creates larger broadcast domains and increases network overhead.

VMware NSX 4.x Reference:

- * VMware NSX-T Data Center Design Guide
- * NSX-T Best Practices for VLAN and Subnet Design

NEW QUESTION # 133

What does leading practices for edge cluster design include?

- A. Limiting the edge cluster to two nodes for easier management
- B. Deploying all edge services on a single Edge VM for simplicity
- C. Separating stateful and stateless services for efficiency
- D. Using physical routers instead of Edge VMs for external connectivity

Answer: C

NEW QUESTION # 134

Options for connecting transport hosts to the switch fabric include? (Choose two)

- A. Bluetooth connections
- B. Direct connections using physical NICs
- C. Dial-up modems
- D. Virtual switches with uplink capabilities

Answer: B,D

NEW QUESTION # 135

A large multinational company is expanding its data center due to increased demand for online services.

The company is considering shifting from an NSX Edge VM design to a bare-metal NSX Edge design to accommodate new hardware acquisitions and maximize performance.

Which is a potential benefit for the company in shifting from an NSX Edge VM design to a bare-metal NSX Edge design?

- A. It will maximize performance by reducing virtualization overhead.
- B. It will allow for the implementation of more VLANs.

- C. It will automatically distribute stateful services across Edge nodes.
- D. It will eliminate the need for stateful services.

Answer: A

Explanation:

- * Performance Benefits of Bare-Metal NSX Edge (Correct Answer - A):
- * Bare-metal NSX Edge Nodes provide higher performance by eliminating the virtualization overhead associated with Edge VMs running inside ESXi/KVM hosts.
- * This increases throughput and reduces latency, making it ideal for high-bandwidth applications (e.g., Load Balancing, VPN, and NAT).

* Incorrect Options:

* (B - More VLANs):

* The number of VLANs is not limited by the NSX Edge type. VLAN scalability depends on physical network design.

* (C - Automatic Stateful Service Distribution):

* Stateful services (NAT, FW, LB, VPN) do not auto-distribute. Stateful HA must be manually configured.

* (D - Eliminates Stateful Services):

* Stateful services (e.g., NAT, Load Balancer, Firewall) are still required, regardless of Edge deployment mode.

VMware NSX 4.x Reference:

* VMware NSX-T Bare-Metal Edge Deployment Guide

* NSX-T Edge Node Performance Optimization

NEW QUESTION # 136

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