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QUESTION 51
An administrator is working with the 192.168.4.0 network, which has been subnetted with a /26 mask. Which two addresses can be assigned to hosts within the same subnet? (Choose two.)

A. 192.168.4.61
B. 192.168.4.63
C. 192.168.4.67
D. 192.168.4.125
E. 192.168.4.128
F. 192.168.4.132

Correct Answer: CD

QUESTION 52

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Cisco 300-640 Exam Syllabus Topics:

Section	Weight	Objectives
Topic 1: AI Infrastructure Operations and Troubleshooting	20%	- Manage health, logs, and events - Troubleshoot network, compute, storage, and orchestration issues - Optimize performance, security, and reliability - Monitor infrastructure: Nexus Dashboard, Intersight, telemetry, alerts - Implement performance benchmarking and validation
Topic 2: AI Infrastructure Fundamentals	20%	- Describe types of AI infrastructure: on-premises, cloud, hybrid, edge - Explain Cisco AI infrastructure solutions and portfolio - Describe core components of AI infrastructure: network, compute, storage, orchestration, monitoring - Describe AI use cases in data center environments - Describe AI and machine learning concepts

Topic 3: AI Infrastructure Components and Architecture	30%	- Evaluate compute requirements: CPU, GPU, NVLink, virtualization, containerization, scalability - Evaluate hybrid and multi-cloud AI integration - Evaluate network requirements for AI workloads: bandwidth, latency, congestion control, RoCEv2, QoS - Evaluate power, cooling, and efficiency requirements - Evaluate storage requirements: capacity, performance, data pipelines, distributed architectures
Topic 4: AI Infrastructure Deployment and Data Management	30%	- Integrate AI frameworks and applications with Cisco infrastructure - Deploy and manage AI infrastructure with orchestration tools - Implement data management and lifecycle for AI workloads - Configure high-performance networks for AI: Cisco Nexus, NDFC, lossless fabrics - Configure compute and storage using Cisco UCS: profiles, policies, Intersight

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300-640 Exam Torrent: Implementing Cisco Data Center AI Infrastructure & 300-640 Pass4Sure Guide

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Cisco Implementing Cisco Data Center AI Infrastructure Sample Questions (Q53-Q58):

NEW QUESTION # 53

A data center is deploying an AI infrastructure for LLM training and model inference. This infrastructure requires high GPU density, low-latency interconnects, and the ability to scale compute resources. When considering the Cisco UCS C885A M8 Rack Server for the deployment, which design aspect is the most critical for achieving optimal performance and scalability in this environment?

- A. using the maximum number of CPU cores to support the virtualization overhead
- B. implementing a redundant power supply configuration to ensure high availability
- **C. selecting the appropriate Nexus Fabric and its configuration to minimize latency**
- D. configuring the server with the minimum amount of RAM to reduce initial costs

Answer: C

Explanation:

For UCS C885A M8 servers running LLM training and inference workloads, the surrounding Nexus fabric design is critical because GPU-dense systems depend on low-latency, high- bandwidth, lossless network connectivity for scale-out performance. Selecting and configuring the correct Nexus fabric minimizes communication delays between compute nodes and enables the AI infrastructure to scale efficiently.

NEW QUESTION # 54

An end customer plans to deploy an AI fabric in a new data center. Their engineers are more familiar with CLI-based networks and require the capability to automate standardized configuration templates and monitor flows for the fabric. Which data center automation tool meets the requirements?

- A. HyperFabric
- B. Intersight
- **C. Nexus Dashboard**
- D. Digital Network Architecture Center

Answer: C

Explanation:

Nexus Dashboard is the Cisco data center automation and operations platform used with Nexus fabrics. It supports standardized fabric configuration through automation templates and provides visibility features such as flow monitoring, making it the appropriate tool for engineers who need CLI-oriented data center fabric operations with automation and telemetry.

NEW QUESTION # 55

A network engineer analyzes RoCEv2 traffic flows in an AI training cluster and notices that all RoCEv2 packets have the Don't Fragment bit set in the IP header. Why must RoCEv2 set the DF bit in all packets?

- A. to ensure that packets always take the same path through ECMP routing for consistent latency
- **B. to prevent IP fragmentation that would break the InfiniBand sequence numbering and ordering guarantees**
- C. to enable Path MTU Discovery so that the optimal packet size can be negotiated
- D. to indicate to intermediate switches that the packet contains RDMA traffic requiring special handling

Answer: B

Explanation:

RoCEv2 carries InfiniBand transport semantics over UDP/IP, and IP fragmentation would disrupt the expected packet sequencing and ordering behavior required by RDMA. Setting the Don't Fragment bit prevents intermediate devices from fragmenting RoCEv2 packets, preserving reliable RDMA transport behavior across the AI training fabric.

NEW QUESTION # 56

A company deploys a Cisco UCS environment to host AI inferencing workloads that demand low latency, high throughput, and efficient resource utilization. Which set of actions must be taken to deploy a high-performance fabric within the Cisco UCS infrastructure?

- A. Connect UCS servers to a Cisco Nexus 3000 Series Switch using 100 Gb Ethernet. Configure a separate management network using a dedicated Cisco Catalyst switch.
- B. Use a single Cisco Fabric Interconnect in a standalone configuration. Connect all UCS servers directly to it using 10 Gb Ethernet.
- **C. Implement a dual-fabric design with two Cisco Fabric Interconnects, and use 100 Gb Ethernet for server-to-fabric connectivity. Configuring port channels for uplink connections.**
- D. Deploy a Cisco MDS 9000 Series Switch for Fibre Channel connectivity to storage. Use a Cisco Fabric Interconnect for management traffic only.

Answer: C

Explanation:

A dual-fabric design with redundant Cisco Fabric Interconnects provides high availability, bandwidth scale, and resilient server-to-fabric connectivity. Using 100 Gb Ethernet and port-channel uplinks supports the low-latency, high-throughput fabric required for AI inferencing workloads while improving utilization and avoiding single points of failure.

NEW QUESTION # 57

A medium-sized breadmaking operation must deploy a fleet of GPU servers that meet these requirements for their flagship application:

- policy managed through cloud-based interface
- low latency between specific pairs of GPUs
- at least 2 GPUs per server
- all GPUs should be same model
- Intel CPU
- well suited for Inferencing
- customer is power conscious

Which server meets the requirements?

- A. C885A M8

- B. C245 M8
- C. X210C M8 with x580 PCIe node
- D. C845A M8

Answer: C

Explanation:

The UCS X210c M8 with the X580 PCIe node fits the requirements because it supports cloud- based policy management through Cisco Intersight, uses Intel Xeon processors, supports multiple same-model GPUs, and is well suited for GPU-accelerated inference workloads while allowing modular scale-out as demand grows. Cisco describes the X580p PCIe node as supporting up to four GPUs with X210c/X215c compute nodes for workloads including inference.

Reference:

<https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-x-series-modular-system/mlperf-inference-ucs-x580p-wp.html>

<https://www.cisco.com/c/dam/en/us/products/collateral/servers-unified-computing/ucs-x-series-modular-system/x210cm8-specsheet.pdf>

NEW QUESTION # 58

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