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Cisco 300-640 Exam Syllabus Topics:

Section	Weight	Objectives
AI Infrastructure Operations	20%	- Performance Optimization - Monitoring and Management Tools - Troubleshooting Common Issues - Capacity Planning
Cisco AI Infrastructure Architecture	30%	- Cisco UCS AI Infrastructure Solutions - Storage Architecture Considerations - Network Architecture for AI Workloads - Hyperconverged Infrastructure for AI
AI Infrastructure Security and Compliance	10%	- Security Best Practices - Compliance Considerations - Access Control and Authentication

AI Infrastructure Deployment	25%	- GPU Server Configuration - Cabling and Connectivity - Storage Configuration for AI - Network Switch Configuration - Hardware Installation and Configuration
AI Infrastructure Fundamentals	15%	- AI Infrastructure Requirements - AI Ecosystem Components - AI Workload Characteristics - GPU Architecture and Types

>> 300-640 Exam Introduction <<

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Cisco Implementing Cisco Data Center AI Infrastructure Sample Questions (Q74-Q79):

NEW QUESTION # 74

A data center team enables jumbo frames in a Cisco AI cluster. What is the primary benefit of increasing the MTU for east-west GPU traffic?

- A. Increased encryption overhead
- B. Reduced Layer 3 convergence time
- C. Elimination of packet buffering
- D. Lower CPU utilization and fewer frames

Answer: D

Explanation:

Jumbo frames reduce the number of packets needed to transmit large AI datasets, decreasing CPU interrupts and protocol overhead. This improves throughput and efficiency for GPU communication. Larger MTUs do not directly affect convergence or eliminate buffering, and they typically reduce rather than increase processing overhead.

NEW QUESTION # 75

A nationwide grocery chain has deployed Unified Edge to all its locations. Each store has 10 or more surveillance cameras that write approximately 1 Gb per hour. The surveillance retention policy requires maintaining 2 weeks of recording per camera. Which type of cost-effective centralized storage solution must be evaluated with Unified Edge devices to adhere to this policy?

- A. Fibre Channel shared storage
- B. Infiniband shared storage
- C. IP-based shared storage
- D. local storage

Answer: C

Explanation:

Unified Edge deployments that need centralized, cost-effective retention for large surveillance data volumes should evaluate IP-based shared storage. It provides scalable network-accessible capacity for multiple edge devices without requiring specialized Fibre Channel or InfiniBand infrastructure, making it appropriate for distributed video retention workloads.

NEW QUESTION # 76

A Cisco Nexus switch participates in an AI cluster using ECMP forwarding. Several flows between GPU servers consistently use the same uplink, creating congestion while other links remain underutilized. Which action improves traffic distribution?

- A. Increase MTU size
- B. Disable hashing
- C. Enable port security
- **D. Modify the hashing algorithm**

Answer: D

Explanation:

ECMP relies on hashing algorithms to distribute traffic across equal-cost paths. In AI environments, large elephant flows may hash to the same uplink, causing imbalance. Adjusting the hashing method improves entropy and distributes flows more evenly. Increasing MTU improves efficiency but does not rebalance traffic. Port security and disabling hashing are unrelated to load distribution.

NEW QUESTION # 77

A financial company plans to deploy an AI training and inference infrastructure to support its customers. The team must use a solution that provides 96 GPUs, aligns with NVIDIA-compliant reference architectures, and enables cloud-based management of the entire on-premises network environment. Which Cisco solution meets the requirements?

- **A. Cisco HyperFabric AI Small AI Cluster with Cisco 6000 switches and AI servers on premises**
- B. Cisco Intersight AI fabric with Nexus 9000 switches and AI servers on premises
- C. Cisco Nexus Dashboard deployed in AWS or Azure with Nexus 9000 switches and AI servers on premises
- D. Cisco HyperFabric AI Medium AI Cluster with Cisco 6000 switches and AI servers on premises

Answer: A

Explanation:

Cisco HyperFabric AI Small AI Cluster matches the 96-GPU requirement because the validated HyperFabric reference architecture uses 12 Cisco UCS C885A M8 servers with NVIDIA HGX for a total of 96 GPUs. Cisco Nexus HyperFabric is also cloud-managed and compliant with NVIDIA Enterprise Reference Architecture, enabling centralized management of the on-premises AI network, GPU servers, and storage.

NEW QUESTION # 78

What is a primary behavior that occurs during the model training stage of the AI lifecycle?

- A. embedding the model into systems with APIs
- **B. adjusting internal weights and biases**
- C. detecting model drift
- D. establishing success criteria

Answer: B

Explanation:

During model training, the model learns from training data by iteratively adjusting its internal weights and biases to reduce prediction error and improve performance against the defined objective function.

NEW QUESTION # 79

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