

300-640 Pass-For-Sure Braindumps: Implementing Cisco Data Center AI Infrastructure & 300-640 Quiz Guide



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Cisco 300-640 Exam Syllabus Topics:

Section	Weight	Objectives
Topic 1: AI Infrastructure Fundamentals	15%	- AI Infrastructure Requirements - GPU Architecture and Types - AI Ecosystem Components - AI Workload Characteristics
Topic 2: AI Infrastructure Security and Compliance	10%	- Security Best Practices - Compliance Considerations - Access Control and Authentication
Topic 3: Cisco AI Infrastructure Architecture	30%	- Storage Architecture Considerations - Cisco UCS AI Infrastructure Solutions - Network Architecture for AI Workloads - Hyperconverged Infrastructure for AI - Cabling and Connectivity
Topic 4: AI Infrastructure Deployment	25%	- GPU Server Configuration - Hardware Installation and Configuration - Network Switch Configuration - Storage Configuration for AI
Topic 5: AI Infrastructure Operations	20%	- Troubleshooting Common Issues - Capacity Planning - Monitoring and Management Tools - Performance Optimization

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Cisco Implementing Cisco Data Center AI Infrastructure Sample Questions (Q78-Q83):

NEW QUESTION # 78

A customer deploys a UCS 885a server in a data center with two power grids. Three of the 3000W power supplies in the server connect to each grid. Due to an external event, one of the grids will be shut down for maintenance. How does the server respond to this event?

- A. The server initiates a graceful shut down of the operating system.
- B. The server continues to operate at full performance using redundant power supplies, but the PSU status LED glows solid amber.
- C. The server operates with reduced performance and caps power to GPUs at 60%.
- D. The server immediately shuts down and stops all operations.

Answer: C

Explanation:

With three 3000W power supplies lost from one power grid, the UCS C885A continues operating on the remaining grid but no longer has the full power budget available for maximum GPU operation. The server reduces performance by enforcing power limits, including capping GPU power, so workloads can continue running within the available power capacity.

NEW QUESTION # 79

Which components are part of the HyperFabric AI solution?

- A. Cisco UCS servers combined with high-speed networking switches and third-party storage
- B. combination of Cisco networking hardware and software-defined storage designed for AI scalability
- C. integrated compute and networking hardware optimized for AI workloads, with optional cloud management
- D. Cisco UCS servers with NVIDIA GPUs, switches, optional VAST Data Storage and cloud- managed networking

Answer: D

Explanation:

HyperFabric AI combines Cisco UCS servers with NVIDIA GPUs, Cisco Nexus 6000 Series switches, optional VAST Data storage, and cloud-managed networking to provide an integrated AI infrastructure solution for training and inference workloads.

NEW QUESTION # 80

A bank is planning to deploy an AI inference solution at its branch locations. The solution must support workloads that require a balance of compute, memory, and potential GPU acceleration, and it must be suitable for installation by nontechnical onsite resources. The requirements are:

- high availability of the chassis management plane.
- support for up to 768 GB of memory for in-memory model storage and processing
- remote server launch requiring no on-site IT staff
- use of Cisco Intersight for SaaS-based infrastructure lifecycle management

Which solution meets the requirements?

- A. Cisco Unified Edge
- B. Cisco UCS C845A M8 Server
- C. Cisco UCS X-Series Direct
- D. Cisco UCS C240 Servers

Answer: A

Explanation:

Cisco Unified Edge is designed for distributed branch and edge AI deployments that need simplified remote operations through

Cisco Intersight. It supports branch-friendly installation, SaaS-based lifecycle management, high-availability chassis management, up to 768 GB of memory, and balanced compute resources for inference workloads that may require GPU acceleration.

NEW QUESTION # 81

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

Answer: B

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 # 82

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

Answer: D

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 # 83

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