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Cisco 300-640 Exam Syllabus Topics:

Section	Weight	Objectives
AI Infrastructure Deployment	25%	- Cabling and Connectivity - Network Switch Configuration - Storage Configuration for AI - Hardware Installation and Configuration - GPU Server Configuration
Cisco AI Infrastructure Architecture	30%	- Hyperconverged Infrastructure for AI - Network Architecture for AI Workloads - Storage Architecture Considerations - Cisco UCS AI Infrastructure Solutions
AI Infrastructure Fundamentals	15%	- AI Infrastructure Requirements - AI Ecosystem Components - GPU Architecture and Types - AI Workload Characteristics
AI Infrastructure Security and Compliance	10%	- Security Best Practices - Compliance Considerations - Access Control and Authentication
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Cisco Implementing Cisco Data Center AI Infrastructure Sample Questions (Q77-Q82):

NEW QUESTION # 77

A data center facility experienced a power outage, and the UCS X-Series servers did not restart automatically when power is restored. The configuration must be updated to prioritize these servers to boot as soon as possible to resume their work. Which set of power policy configurations must be used to meet these requirements?

- A. Power Profiling: On
Power Priority: Default
Power Restore: Always On
Processor Package Power Limit(PPL): Default
- B. Power Profiling: On
Power Priority: High
Power Restore: Always On
Processor Package Power Limit(PPL): Default
- C. Power Profiling: On
Power Priority: Default
Power Restore: Immediate
Processor Package Power Limit(PPL): Maximum
- D. Power Profiling: On
Power Priority: High
Power Restore: Immediate
Processor Package Power Limit(PPL): Maximum

Answer: B

Explanation:

The servers must be configured to power back on automatically after power is restored, so the restore behavior should be set to always power on. Setting the power priority to high ensures these UCS X-Series servers receive priority during power recovery, allowing them to resume workloads as quickly as possible.

NEW QUESTION # 78

Which function is provided through natural language processing?

- A. automated conversion of spoken or written content into structured data
- B. compression of large configuration files for storage efficiency
- C. annotation of data transmission protocols for device authorization
- D. filtration of duplicate entries from transaction records

Answer: A

Explanation:

Natural language processing enables systems to interpret, process, and transform human language from spoken or written inputs into structured data that applications can analyze, search, classify, or use for automation.

NEW QUESTION # 79

An organization deploys a new AI training fabric that uses RoCEv2 for GPU communication. The network architect designs the QoS configuration to ensure reliable RDMA transport and must meet these requirements:

- Support 256 GPU servers with RDMA connectivity.
- Prevent any packet loss that causes RDMA connection failures.
- Maintain consistent low-latency communication with a target of less than 10 microseconds.
- Use industry-standard protocols and configurations.

Which configuration ensures that RoCEv2 operates as a lossless transport?

- A. Implement traffic shaping to smooth RDMA traffic bursts and prevent congestion.
- B. Configure weighted fair queuing to prioritize RDMA traffic over other traffic classes.
- C. Set the RDMA traffic to use the highest DSCP value to ensure priority forwarding.
- D. Enable Priority Flow Control on the traffic class carrying RoCEv2 packets.

Answer: D

Explanation:

RoCEv2 requires lossless Ethernet behavior to prevent packet drops that can disrupt RDMA communication. Enabling Priority Flow Control on the traffic class carrying RoCEv2 packets allows Ethernet pause behavior for that priority, helping maintain reliable, low-latency RDMA transport across the AI training fabric.

NEW QUESTION # 80

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. selecting the appropriate Nexus Fabric and its configuration to minimize latency
- 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. configuring the server with the minimum amount of RAM to reduce initial costs

Answer: A

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 # 81

A Cisco AI cluster requires segmentation between multiple research teams sharing the same physical infrastructure. Which solution provides scalable tenant isolation?

- A. VLAN-only design
- B. Hub-and-spoke WAN
- C. Static NAT
- D. VXLAN overlays

Answer: D

Explanation:

VXLAN overlays provide scalable multi-tenant segmentation using large VNI spaces beyond traditional VLAN limitations. AI infrastructures often support many isolated environments simultaneously. VLAN-only designs have scalability constraints, while WAN topologies and NAT do not provide modern data center tenant segmentation.

NEW QUESTION # 82

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