

300-640 - Accurate Valid Implementing Cisco Data Center AI Infrastructure Test Objectives



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Cisco 300-640 Exam Syllabus Topics:

Section	Weight	Objectives
Topic 1: AI Infrastructure Components and Architecture	30%	- Evaluate storage requirements: capacity, performance, data pipelines, distributed architectures - Evaluate network requirements for AI workloads: bandwidth, latency, congestion control, RoCEv2, QoS - Evaluate compute requirements: CPU, GPU, NVLink, virtualization, containerization, scalability - Evaluate power, cooling, and efficiency requirements - Evaluate hybrid and multi-cloud AI integration
Topic 2: AI Infrastructure Fundamentals	20%	- Describe core components of AI infrastructure: network, compute, storage, orchestration, monitoring - Describe AI use cases in data center environments - Describe types of AI infrastructure: on-premises, cloud, hybrid, edge - Describe AI and machine learning concepts - Explain Cisco AI infrastructure solutions and portfolio
Topic 3: AI Infrastructure Operations and Troubleshooting	20%	- Optimize performance, security, and reliability - Manage health, logs, and events - Monitor infrastructure: Nexus Dashboard, Intersight, telemetry, alerts - Implement performance benchmarking and validation - Troubleshoot network, compute, storage, and orchestration issues
Topic 4: AI Infrastructure Deployment and Data Management	30%	- Implement data management and lifecycle for AI workloads - Deploy and manage AI infrastructure with orchestration tools - Configure compute and storage using Cisco UCS: profiles, policies, Intersight - Integrate AI frameworks and applications with Cisco infrastructure - Configure high-performance networks for AI: Cisco Nexus, NDFC, lossless fabrics

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Cisco Implementing Cisco Data Center AI Infrastructure Sample Questions (Q47-Q52):

NEW QUESTION # 47

A network administrator configures RDMA over Converged Ethernet version 2 (RoCEv2). Which transport protocol does RoCEv2 use at Layer 4?

- A. ICMP
- B. TCP
- C. UDP
- D. SCTP

Answer: C

Explanation:

RoCEv2 encapsulates RDMA traffic over UDP/IP, enabling routable RDMA communication across Layer 3 networks. TCP introduces retransmission and latency overhead unsuitable for high-performance GPU communication. SCTP and ICMP are not used for RoCEv2 transport.

NEW QUESTION # 48

A Cisco Nexus switch is configured with QoS policies for AI traffic. Which scheduling mechanism guarantees bandwidth for critical traffic classes during congestion?

- A. Weighted scheduling
- B. MAC filtering
- C. FIFO
- D. Port mirroring

Answer: A

Explanation:

Weighted scheduling allocates bandwidth according to configured priorities, ensuring critical AI traffic receives adequate forwarding resources during congestion. FIFO provides no prioritization, while MAC filtering and port mirroring are unrelated to congestion management or QoS scheduling.

NEW QUESTION # 49

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. Enable Priority Flow Control on the traffic class carrying RoCEv2 packets.
- B. Set the RDMA traffic to use the highest DSCP value to ensure priority forwarding.
- C. Implement traffic shaping to smooth RDMA traffic bursts and prevent congestion.

- D. Configure weighted fair queuing to prioritize RDMA traffic over other traffic classes.

Answer: A

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 # 50

What is a function of NVLink technology within a high-performance AI server or cluster?

- **A. to provide a high-speed, low-latency direct interconnect for GPU-to-GPU communication**
- B. to establish a secure, encrypted channel for data transfer between the AI server and external storage
- C. to enable remote access and virtualization of GPU resources for distributed AI development teams
- D. to manage power distribution and thermal regulation across all installed GPU units

Answer: A

Explanation:

NVLink provides a high-bandwidth, low-latency direct interconnect between GPUs. In AI servers and clusters, it accelerates GPU-to-GPU communication for training and inference workloads by allowing GPUs to exchange data much faster than through standard PCIe paths.

NEW QUESTION # 51

An administrator configures VXLAN EVPN in a Cisco AI data center fabric. The requirement is to provide Layer 2 adjacency across multiple leaf switches while maintaining scalable control-plane learning. Which protocol fulfills this function?

- **A. BGP EVPN**
- B. STP
- C. HSRP
- D. OSPF

Answer: A

NEW QUESTION # 52

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