

300-640資格受験料 & 300-640受験対策解説集

2025年 FP技能検定（受験料）

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Cisco 300-640 Exam Syllabus Topics:

Section	Weight	Objectives
Topic 1: AI Infrastructure Deployment and Data Management	30%	- Configure high-performance networks for AI: Cisco Nexus, NDFC, lossless fabrics - Deploy and manage AI infrastructure with orchestration tools - Implement data management and lifecycle for AI workloads - Integrate AI frameworks and applications with Cisco infrastructure - Configure compute and storage using Cisco UCS: profiles, policies, Intersight
Topic 2: AI Infrastructure Operations and Troubleshooting	20%	- Manage health, logs, and events - Optimize performance, security, and reliability - Troubleshoot network, compute, storage, and orchestration issues - Implement performance benchmarking and validation - Monitor infrastructure: Nexus Dashboard, Intersight, telemetry, alerts - Evaluate hybrid and multi-cloud AI integration - Evaluate compute requirements: CPU, GPU, NVLink, virtualization, containerization, scalability
Topic 3: AI Infrastructure Components and Architecture	30%	- 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 Fundamentals	20%	- Describe AI and machine learning concepts - Describe types of AI infrastructure: on-premises, cloud, hybrid, edge - Describe core components of AI infrastructure: network, compute, storage, orchestration, monitoring - Explain Cisco AI infrastructure solutions and portfolio - Describe AI use cases in data center environments
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>> 300-640資格受験料 <<

Cisco 300-640受験対策解説集、300-640基礎問題集

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Cisco Implementing Cisco Data Center AI Infrastructure 認定 300-640 試験問題 (Q20-Q25):

質問 # 20

A Cisco UCS C885A M8 server contains a GPU sled configured with six power supply units (PSUs) in an N+2 redundancy configuration. The workload on the GPU sled is currently drawing a load of 4500W. Using Power Save Mode, how many PSUs can be placed into standby mode to improve power efficiency without compromising redundancy?

- A. 0
- B. 1
- C. 2
- D. 3

正解: A

解説:

With six PSUs in an N+2 configuration and a 4500W load, at least two PSUs must remain available to carry the active workload, and two additional PSUs must remain available to preserve redundancy. Therefore, four PSUs must stay active, allowing two PSUs to be placed into standby mode for power efficiency without compromising the N+2 redundancy requirement.

質問 # 21

Which set of statements describes Quantized Congestion Notification?

- A. Priority Flow Control reacts first to mitigate congestion, and Explicit Congestion Notification acts as a fail-safe to prevent traffic drops if Priority Flow Control is insufficient.
A congestion notification packet sent toward the source by hosts and the network switch in response to receiving Explicit Congestion Notification with congestion experienced bits set.
- B. Priority Flow Control reacts first to mitigate congestion, and Explicit Congestion Notification acts as a fail-safe to prevent traffic drops if Priority Flow Control is insufficient.
A congestion notification packet sent toward the source by a network switch in response to receiving Explicit Congestion Notification with congestion experienced bits set.
- C. Explicit Congestion Notification reacts first to mitigate congestion, and Priority Flow Control acts as a fail-safe to prevent traffic drops if Explicit Congestion Notification is insufficient.
A congestion notification packet sent toward the source by a host in response to receiving Explicit Congestion Notification with congestion experienced bits set.
- D. Explicit Congestion Notification reacts first to mitigate congestion, and Priority Flow Control acts as a fail-safe to prevent traffic drops if Explicit Congestion Notification is insufficient.
A congestion notification packet sent toward the source by hosts and the network switch in response to receiving Explicit Congestion Notification with congestion experienced bits set.

正解: C

解説:

Quantized Congestion Notification relies on Explicit Congestion Notification as the primary congestion signal so the sender can reduce its transmission rate before packet loss occurs.

Priority Flow Control acts as a safety mechanism if congestion becomes severe, and the congestion notification packet is generated by the receiving host when it receives packets marked with congestion-experienced bits.

質問 # 22

A company is building a network fabric for an AI training cluster that will train large language models. The cluster includes 256 GPUs distributed across 32 servers. Security requirements mandate isolation between different training projects and allowing shared access to a central storage system. Which approach provides the required security isolation and maintains optimal performance for GPU-to-GPU communication?

- A. Implement port-based VLANs for each project with router ACLs controlling storage access at the distribution layer.
- B. Deploy separate physical networks for each project with dedicated switches and cross-connects to shared storage.
- C. Configure QoS-based traffic steering with separate DSCP markings per project and policy-based routing to shared storage.
- **D. Use VXLAN with separate VNIs per project and Group Policy Option to control granular access to shared storage.**

正解: D

解説:

VXLAN provides scalable network segmentation by assigning separate VNIs to different training projects, preserving isolation without building separate physical fabrics. Group Policy Option adds policy-based control within the VXLAN overlay, allowing controlled shared access to central storage while maintaining high-performance GPU-to-GPU communication across the AI training fabric.

質問 # 23

To support growing AI workload requirements, a regional medical practice is adding new X9516 X-Fabric module, UCS PCI Mezz cards, and UCS X580p PCIe nodes to their existing X-Series chassis. Which two administrative actions must be taken before the X-Fabric module is added to the chassis? (Choose two.)

- A. Power down all IFMs in the chassis.
- B. Disconnect device connector.
- **C. Install UCS PCI Mezzanine cards in X-Series blades.**
- D. Disconnect cabling between IFMs and fabric interconnects.
- **E. Power down all blades that would connect to the X-Fabric modules.**

正解: C、E

解説:

Before adding the X9516 X-Fabric module, the affected X-Series blades must be powered down because the X-Fabric connectivity path requires hardware installation and cannot be safely introduced while the connected compute nodes are running. The UCS PCI Mezzanine cards must also be installed in the blades so they can physically connect through the X-Fabric module to the X580p PCIe nodes for GPU expansion.

質問 # 24

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

正解: A

解説:

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.

質問 #25

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