

NCP-AIN최신버전시험공부 & NCP-AIN덤프문제은행



BONUS!!! ExamPassdump NCP-AIN 시험 문제집 전체 버전을 무료로 다운로드하세요: https://drive.google.com/open?id=1x82JSYSTgKOozVBOzeVmDzg_kQ86qFs

ExamPassdump에서 NVIDIA NCP-AIN 덤프를 다운받아 공부하시면 가장 적은 시간만 투자해도NVIDIA NCP-AIN시험패스하실수 있습니다. ExamPassdump에서NVIDIA NCP-AIN시험덤프를 구입하시면 퍼펙트한 구매후 서비스를 제공해드립니다. NVIDIA NCP-AIN덤프가 업데이트되면 업데이트된 최신버전을 무료로 제공해드립니다. 시험에서 불합격성적표를 받으시면 덤프구매시 지불한 덤프비용은 환불해드립니다.

NVIDIA NCP-AIN 시험요강:

주제	소개
주제 1	AI Network Architecture: This section of the exam measures the skills of AI Infrastructure Architects and covers the ability to distinguish between AI factory and AI data center architectures. It includes understanding how Ethernet and InfiniBand differ in performance and application, and identifying the right storage options based on speed, scalability, and cost to fit AI networking needs.
주제 2	InfiniBand Configuration, Optimization, Security, and Troubleshooting: This section of the exam measures the skills of Data Center Network Administrators and covers the configuration and operational maintenance ofNVIDIA InfiniBand switches. It includes setting up InfiniBand fabrics for multi-tenant environments, managing subnet configurations, testing connectivity, and using UFM to troubleshoot and analyze issues. It also focuses on validating rail-optimized topologies for optimal network performance.
주제 3	Spectrum-X Configuration, Optimization, Security, and Troubleshooting: This section of the exam measures the skills ofNetwork Performance Engineers and covers configuring, managing, and securing NVIDIA Spectrum-X switches. It includes setting performance baselines, resolving performance issues, and using diagnostic tools such as CloudAI benchmark, NCCL, and NetQ. It also emphasizes leveraging DPUs for network acceleration and using monitoring tools like Grafana and SNMP for telemetry analysis.

>> NCP-AIN최신버전 시험공부 <<

NCP-AIN덤프문제은행, NCP-AIN덤프문제모음

ExamPassdump의 NVIDIA NCP-AIN 덤프로 시험을 준비하면NVIDIA NCP-AIN시험패스를 예약한것과 같습니다. 가장 최근 출제된NVIDIA NCP-AIN시험문제를 바탕으로 만들어진 적응을 최고인 덤프로서 간단한 시험패스는 더는 꿈이 아닙니다. 덤프는 pdf파일과 온라인서비스로 되어있는데 pdf버전은 출력가능하고 온라인버전은 휴대폰에서도 작동가능합니다.

최신 NVIDIA-Certified Professional NCP-AIN 무료샘플문제 (Q10-Q15):

질문 # 10

What command sequence is used to identify the exact name of the server that runs as the master SM in a multi-node fabric?

- A. ibis
ibsim <LID>
- B. sminfo
smpquery NI <LID>
- C. ibstat
sminfo <LID>
- D. sminfo
smpquery ND <LID>

정답: D

설명:

To identify the activeSubnet Manager (SM)node in an InfiniBand fabric, the correct command sequence is:

* sminfo

* Displays general information about the active SM in the fabric, including itsLID.

* smpquery ND <LID>

* Resolves theNode Description (ND)at the given LID, revealing the exact hostname or label of the SM server.

From the InfiniBand Tools Guide:

"The sminfo utility provides the LID of the master SM. Use smpquery ND <LID> to resolve the node name hosting the SM." This two-step approach is standard for locating and validating the SM identity in fabric diagnostics.

Incorrect Options:

* B (NI)is an invalid query type.

* CandDdo not identify SMs.

Reference: InfiniBand SM Tools - sminfo & smpquery Usage

질문 # 11

You are troubleshooting a Spectrum-X network and need to ensure that the network remains operational in case of a link failure. Which feature of Spectrum-X ensures that the fabric continues to deliver high performance even if there is a link failure?

- A. RoCE Congestion Control
- B. NVIDIA NetQ
- C. RoCE Adaptive Routing
- D. RoCE Performance Isolation

정답: C

설명:

RoCE Adaptive Routing is a key feature ofNVIDIA Spectrum-X that ensures high performance and resiliency in the network, even in the event of a link failure. This technology dynamically reroutes traffic to the least congested and operational paths, effectively mitigating the impact of link failures. By continuously evaluating the network's egress queue loads and receiving status notifications from neighboring switches, Spectrum-X can adaptively select optimal paths for data transmission. This ensures that the network maintains high throughput and low latency, crucial for AI workloads, even when certain links are down.

Reference Extracts from NVIDIA Documentation:

* "Spectrum-X employs global adaptive routing to quickly reroute traffic during link failures, minimizing disruptions and preserving optimal storage fabric utilization."

* "RoCE Adaptive Routing avoids congestion by dynamically routing large AI flows away from congestion points. This approach improves network resource utilization, leaf/spine efficiency, and performance."

질문 # 12

Which service on Cumulus switches can monitor layer 1, layer 2, layer 3, tunnel, buffer, and ACL related issues?

- A. NCLU
- B. BGP
- C. ONIE
- D. WJH

정답: D

설명:

The "What Just Happened" (WJH) service on Cumulus switches provides real-time visibility into network problems by monitoring various layers and components, including layer 1, layer 2, layer 3, tunnel, buffer, and Access Control List (ACL) related issues. WJH streams detailed and contextual telemetry data, enabling administrators to diagnose and troubleshoot network problems effectively.

Reference Extracts from NVIDIA Documentation:

* "WJH can monitor layer 1, layer 2, layer 3, tunnel, buffer and ACL related issues."

* "The WJH service enables you to diagnose network problems by looking at dropped packets."

질문 # 13

A major cloud provider is designing a new data center to support large-scale AI workloads, particularly for training large language models. They want to optimize their network architecture for maximum performance and efficiency.

Why is a rail-optimized topology considered a best practice for AI network architecture in this scenario?

- A. It simplifies network management by using a single large switch for all connections.
- B. It provides optimal GPU-to-GPU communication and reduces network interference between flows.
- C. It prioritizes north-south traffic over east-west traffic for better internet connectivity.
- D. It maximizes the number of network hops to increase data redundancy.

정답: B

설명:

A rail-optimized topology is designed to enhance GPU-to-GPU communication by connecting each GPU's Network Interface Card (NIC) to a dedicated rail switch. This configuration ensures predictable traffic patterns and minimizes network interference between data flows, which is crucial for the performance of large-scale AI workloads, such as training large language models. By reducing contention and latency, this topology supports efficient and scalable AI training environments.

Reference Extracts from NVIDIA Documentation:

* "Rail-optimized network topology helps maximize all-reduce performance while minimizing network interference between flows."

* "A Rail Optimized Stripe Architecture provides efficient data transfer between GPUs, especially during computationally intensive tasks such as AI Large Language Models (LLM) training workloads, where seamless data transfer is necessary to complete the tasks within a reasonable timeframe."

질문 # 14

How does Spectrum-X achieve network isolation for multiple tenants?

- A. By implementing physical network segmentation.
- B. By assigning unique IP address ranges to each tenant.
- C. Using manual configuration of access control lists (ACLs).
- D. By implementing a Layer 3 Virtual Network Identifier (L3VNI) per VRF.

정답: D

설명:

Spectrum-X achieves network isolation in multi-tenant environments by implementing Layer 3 Virtual Network Identifiers (L3VNIs) per Virtual Routing and Forwarding (VRF) instance. This approach allows each tenant to have a separate routing table and network segment, ensuring that traffic is isolated and secure between tenants.

Reference Extracts from NVIDIA Documentation:

* "Spectrum-X enhances multi-tenancy with performance isolation to ensure tenants' AI workloads perform optimally and consistently."

질문 # 15

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인터넷에 검색하면 NVIDIA NCP-AIN시험덤프공부자료가 헤아릴수 없을 정도로 많이 검색됩니다. 그중에서 ExamPassdump의NVIDIA NCP-AIN제품이 인지도가 가장 높고 가장 안전하게 시험을 패스하도록 지름길이 되어드릴수 있습니다.

NCP-AIN덤프문제은행 : https://www.exampassdump.com/NCP-AIN_valid-braindumps.html

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